

Hubworks API Document

Version 1.0

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1 Introduction

Hubworks API is designed to provide a simple interface to external applications. It is organized around a logical method. The API has predictable and resourceful URLs. This allows Hubworks to integrate to 3rd party systems including but not limited to payroll applications, HR systems, and POS applications. These API features allow you to interact securely with Hubworks Application.

Please remember this documentation is not limited to the explorable possible integrations by like features of 3rd party vendors. Hubworks API is thorough, flexible and follows standard conventions.

This describes the resources that make up the official Hubworks API v2.0.

This document includes URLs for example purpose only. These URLs shouldn't be considered as what will be used for client use.

2 Authentication Process

Hubworks authentication is a secure process driven by a security key model. It uses username and password for authentication. User will provide a secure username and password to pass the authentication process. The username and password should be provided in the header of the request. A secure API key will be sent in response as soon as the authentication process is complete.

Sample Request

URL: <https://appServerURL/apiKey>

Example:

For Fresh Griller URL: <https://pilot.hubworks.com/hwapp/apiKey>

URL: <https://app.hubworks.com/hwot/apiKey>

Header Data: **"userName"**: "ssmith@hotmail.com", **"password"**: "*****"

Below is the sample response which will be sent for the above mentioned request:

Sample Response

```
{
  "data": "9427880e727347038af8f9e250a449c8f9fe",
  "success": true
}
```

User will be provided with an API key in response of the request after the authentication is complete. Further requests will not require user name and password to fetch the data from the system, Only API key in the header will be required every time in all the API calls.

3 Lookup values

There are different look up values that needs to be fetched before proceeding with the API.

- List of Stores
- List of Positions
- List of Certifications
- List of Job Codes

3.1 List of Stores

To fetch the list of stores from the application the following request should be sent.

Sample Request

URL: <https://appServerURL/api/site/list>
Example:
URL: <https://app.hubworks.com/hwot/api/site/list>
Header Data: "apiKey": "9427880e727347038af8f9e250a449c8f9fe"

Sample Response

```
{
  "data":
  [
    {
      "siteName": "4470 - Stephens & W Broadway",
      "primaryKey": 8,
      "zipCode": "90003",
      "city": "Costa Mesa",
      "addressLine1": "3191 Red Hill Avenue",
      "state": "California",
    },
    {
      "siteName": "4881 - 4th & Bayswater",
      "primaryKey": 12,
      "zipCode": "90005",
      "city": "Los Angeles",
      "addressLine1": "26 Bakers Street ",
      "state": "California",
    },
    {
      "siteName": "4604 - 41st Ave & Balsam St",
      "primaryKey": 10,
      "zipCode": "96065",
      "city": "San Francisco",
      "addressLine1": "24 Street Red Land",
      "state": "California",
    }
  ]
}
```

```
},
{
  "siteName": "4526 - UBS - Tech Facility 3",
  "primaryKey": 9,
  "zipCode": "91305",
  "city": "Austin",
  "addressLine1": "25 Larsen Avenue ",
  "state": "Texas",
},
{
  "siteName": "4633 - Arbutus & 33rd",
  "primaryKey": 11,
  "zipCode": "94005",
  "city": "Las Vegas",
  "addressLine1": "29 Hamilton Street ",
  "state": "Nevada",
},
{
  "siteName": "4420 - University Marketplace",
  "primaryKey": 7,
  "zipCode": "90105",
  "city": "Manhattan",
  "addressLine1": "44 Cambridge Street New York ",
  "state": "New York",
},
{
  "siteName": "158 - Kerri dale",
  "primaryKey": 4,
  "zipCode": "90705",
  "city": "Miami",
  "addressLine1": "20 Hilton Street Alaska ",
  "state": "Florida",
},
{
  "siteName": "171 - West
10th", "primaryKey": 6,
  "zipCode": "91008",
  "city": "Pittsburg",
  "addressLine1": "36 Park Hill Street ",
  "state": "California",
},
{
  "siteName": "121 - Dunbar
Street", "primaryKey": 3,
```

```

        "zipCode": "90005",
        "city": "Denver",
        "addressLine1": "25 Red Park Street ",
        "state": "Colorado",
    },
    {
        "siteName": "166 - West
        Broadway", "primaryKey": 5,
        "zipCode": "90005",
        "city": "Madison",
        "addressLine1": "26 Bakers Street ",
        "state": "Wisconsin",
    }
],
"success": true
}

```

Parameters Details

Parameter	Description	Data Type	Sample Data
siteName	Name of the store. It needs to be in double quotes.	String	166 - West Broadway
primaryKey	Primary key of the store. This will required for many other requests. It is also referred to as eoSiteMain in many requests in this document.	Long	5
zipCode	Zip Code of State. It needs to be in double quotes.	String	90001
City	Name of city. It needs to be in double quotes.	String	Costa Mesa
addressLine1	Address of Store. It needs to be in double quotes.	String	3191 Red Hill Avenue
state	State in which the store lies. It needs to be in double quotes.	String	California

3.2 List of Positions

To fetch the list of positions from the application the following request should be sent.

Sample Request

URL: <https://appServerURL/api/position/list>

Example:

URL: <https://app.hubworks.com/hwot/api/position/list>

Header Data: "apiKey": "9427880e727347038af8f9e250a449c8f9fe"

Sample Response

```
{
  "data": [
    {
      "positionTitle": "Floor Supervisor",
      "primaryKey": 230
    },
    {
      "positionTitle": "Manager",
      "primaryKey": 232
    },
    {
      "positionTitle": "Chef",
      "primaryKey": 253
    },
    {
      "positionTitle": "Manager",
      "primaryKey": 255
    },
    {
      "positionTitle": "Cashier",
      "primaryKey": 231
    }
  ],
  "success": true
}
```

Parameters Details

Parameter	Description	Data Type	Sample Data
positionTitle	Name of the position. It needs to be in double quotes.	String	Chef
primaryKey	Primary Key of position	Long	253

3.3 List of Certifications

To fetch the list of certifications from the application the following request should be sent.

Sample Request

URL: <https://appServerURL/api/cert/list>

Example:

URL: <https://app.hubworks.com/hwot/api/cert/list>

Header Data: "apiKey": "9427880e727347038af8f9e250a449c8f9fe"

Sample Response

```
{
  "data": [
    {
      "certificationName": "Bartender Certification",
      "primaryKey": 14
    },
    {
      "certificationName": "Chef
      Certification", "primaryKey": 13
    },
    {
      "certificationName": "Griller
      Certification", "primaryKey": 15
    }
  ],
  "success": true
}
```

Parameters Details

Parameter	Description	Data Type	Sample Data
certificationName	Name of the Certificate. It needs to be in double quotes.	String	Chef Certification
primaryKey	Primary Key of certificate	Long	13

3.4 List of Job Codes

To fetch the list of Job codes from the application the following request should be sent.

Sample Request

URL: <https://appServerURL/api/jobCode/list>

Example:

URL: <https://app.hubworks.com/hwot/api/jobCode/list>

Header Data: "apiKey": "9427880e727347038af8f9e250a449c8f9fe"

Sample Response

```
{
  "data": [
    {
```

```

        "altaJobCode": "altaJobCode_3",
        "jobCodeDescription":
        "Manager", "primaryKey": 230
    },
    {
        "altaJobCode": "altaJobCode_4",
        "jobCodeDescription":
        "Supervisor", "primaryKey": 231
    },
    {
        "altaJobCode": "altaJobCode_5",
        "jobCodeDescription": "Crew",
        "primaryKey": 232
    }
    ],
    "success": true
}

```

Parameters Details

Parameter	Description	Data Type	Sample Data
jobCodeDescription	Name of the Job Code. It needs to be in double quotes.	String	Supervisor
primaryKey	Primary Key of certificate	Long	231

4 Actuals

4.1 Create Actual

To create actuals in the application a request should be sent with the following data in the following format:

Sample Request

URL: <https://appServerURL/api/eoAcdMain/create>

Example:

URL: <https://app.hubworks.com/hwot/api/eoAcdMain/create>

Header Data: "apiKey": "9427880e727347038af8f9e250a449c8f9fe"

Post Data:

```

{
    "eoSiteMain": 24,
    "busiDate": "10/31/2015",
    "actConfNumb1": 1225.25,
    "actConfNumb2": 300,
    "acdDetailArray":
    [
        {

```

```

        "actConfNumb1": 23.50,
        "actConfNumb2": 6,
        "indexNum": 0
    },
    {
        "actConfNumb1": 10,
        "actConfNumb2": 1,
        "indexNum": 2
    },
    {
        "actConfNumb1": 43.36,
        "actConfNumb2": 12,
        "indexNum": 44
    },
    {
        "actConfNumb1": 55.63,
        "actConfNumb2": 13,
        "indexNum": 45
    }
]
}

```

Parameters Details

Parameter	Description	Data Type	Sample Data
eoSiteMain	Site's Primary Key. This is unique identifier/reference to the site.	Long	24
busiDate	The date for which the Actuals will be imported. It will be in double quotes and in MM/DD/YYYY format.	String	10/31/2015
actConfNumb1	Sales for the above mentioned busiDate.	Double	43.36
actConfNumb2	Total number of Transactions for the above mentioned busiDate.	Integer	2
acdDetailArray	This array will contain the Actual's data based on 15 minute indexes.	Integer	
indexNum	Index of the day. An IndexNum indicates 15 minutes i.e. if the index is 0 then the time is from 12:00a to 12:15a or if the index is 1 then the time is 12:15a to 12:30a. There are total 96 indices in a day i.e. from 0 to 95. The 95th index indicates 11:45p to 12:00a.	Integer	0,1,2,3...

--	--	--	--

The following table shows some key test cases and expected results. This is not a complete set of test cases. There could be more cases that are outside the scope of this document.

Parameter	Is Required	Cases	Expected Result
eoSiteMain	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.
busiDate	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.
actConfNumb1	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.
actConfNumb2	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.
acdDetailArray	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.
indexNum	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.

Sample Response

```
{
  "success": true
}
```

Once the actuals are fed to the application then these values will reflect on the **Actuals** as shown below:

4.2 Get Actuals

The fetch Actual's data from the HubWorks application the request should be in the below mentioned format:

Sample Request

```

URL: https://appServerURL/api/eoAcidMain/list
Example:
URL: https://app.hubworks.com/hwot/api/eoAcidMain/list
Header Data: "apiKey": "9427880e727347038af8f9e250a449c8f9fe"
Post Data:
{
    "eoSiteMain" : 24,
    "startDate": "09/11/2015",
    "endDate": "09/11/2015"
}

```

Required Parameters

Parameter	Description	Data Type	Sample Data
eoSiteMain	Site's Primary Key.	Long	24
startDate	Start Date is the date range for which we need actuals. This value needs to be in double quotes and in MM/DD/YYYY format.	String	09/11/2015
endDate	End Date is the date range for which we need actuals. This value needs to be in double quotes and in MM/DD/YYYY format.	String	09/11/2015

The following table shows some key test cases and expected results. This is not a complete set of test cases. There could be more cases that are outside the scope of this document.

Parameter	Is Required	Cases	Expected Result
eoSiteMain	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.
startDate	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.

endDate	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.

Below is the sample response which will be the return of the request:

Sample Response

```
{
  "data": [
    {
      "actConfNumb2": 40,
      "busiDate": "09/11/2015",
      "acdDetailArray": [
        {
          "actConfNumb2": 10,
          "indexNum": 28,
          "actConfNumb1": 26.50,
          "primaryKey": 97866
        },
        {
          "actConfNumb2": 6,
          "indexNum": 29,
          "actConfNumb1": 43.54,
          "primaryKey": 97867
        },
        {
          "actConfNumb2": 8,
          "indexNum": 30,
          "actConfNumb1": 30.65,
          "primaryKey": 97868
        }
        ...
        ...
      ],
      "actConfNumb1": 109.65,
      "primaryKey": 1029
    }
  ],
  "success": true
}
```

Parameter Detail

Parameter	Description	Data Type	Sample Data
actConfNumb2	Total transactions for the day.	Integer	45

Primary Key	Unique Identifier for the object	Long	248
acdDetailArray	This array will contain the Actual's data based on 15 minute indexes.	Integer	
busiDate	The date for which the data is fetched and in MM/DD/YYYY and in double quotes.	String	09/11/2015
actConfNumb1	Total sales for the day.	Double	98.99

Actual Detail – 15 minutes detail of actual

Parameter	Description	Data Type	Sample Data
actConfNumb2	Total transactions of the index	Integer	6
IndexNum	Index of the day. An indexNum indicates 15 minutes i.e. if the index is 0 then the time is from 12:00a to 12:15a or if the index is 1 then the time is 12:15a to 12:30a. There are total 96 indices in a day i.e. from 0 to 95. The 95 th index indicates 11:45p to 12:00a.	Integer	0,1,2,3...,44,45....
primaryKey	Unique identifier for the detail.	Long	21630
actConfNumb1	Total sales of the index.	Double	35.56

5 Forecast

5.1 Create Forecast

To create the forecast data a request should be sent as mentioned below:

Sample Request

URL: <https://appServerURL/api/eoFcdMain/create>

Example:

URL: <https://app.hubworks.com/hwot/api/eoFcdMain/create>

Header Data: "apikey": "9427880e727347038af8f9e250a449c8f9fe..."

Post Data:

```
{
  "eoSiteMain": 24,
  "busiDate": "10/31/2015",
  "fctConfNumb1": 1225.25,
  "fctConfNumb2": 300,
  "fcdDetailArray":
    [
      {
        "fctConfNumb1": 23.50,
        "fctConfNumb2": 6,
        "indexNum": 0
      },
      {
        "fctConfNumb1": 10,
        "fctConfNumb2": 1,
        "indexNum": 2
      },
      {
        "fctConfNumb1": 43.36,
        "fctConfNumb2": 12,
        "indexNum": 44
      },
      {
        "fctConfNumb1": 55.63,
        "fctConfNumb2": 13,
        "indexNum": 45
      }
    ]
}
```

Parameter Detail

Parameter	Description	Data Type	Sample Data
eoSiteMain	Site's Primary Key.	Long	24
busiDate	The date for which the forecast will be fed in. It needs to be in MM/DD/YYYY and in double quotes.	String	10/31/2015
fctConfNumb1	Total number of forecasted sales for the above mentioned busiDate.	Double	2000
fctConfNumb2	Total number of forecasted Transactions for the above mentioned busiDate.	Integer	50
fcdDetailArray	Contains list of sales and transactions per index.	Array	
indexNum	Index of the day. An IndexNum indicates 15 minutes.	Integer	0

The following table shows some key test cases and expected results. This is not a complete set of test cases. There could be more cases that are outside the scope of this document.

Parameter	Is Required	Cases	Expected Result
eoSiteMain	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.
busiDate	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.
fcdConfNumb1	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.
fcdConfNumb2	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.
fcdDetailArray		Present and valid data	It will be processed.

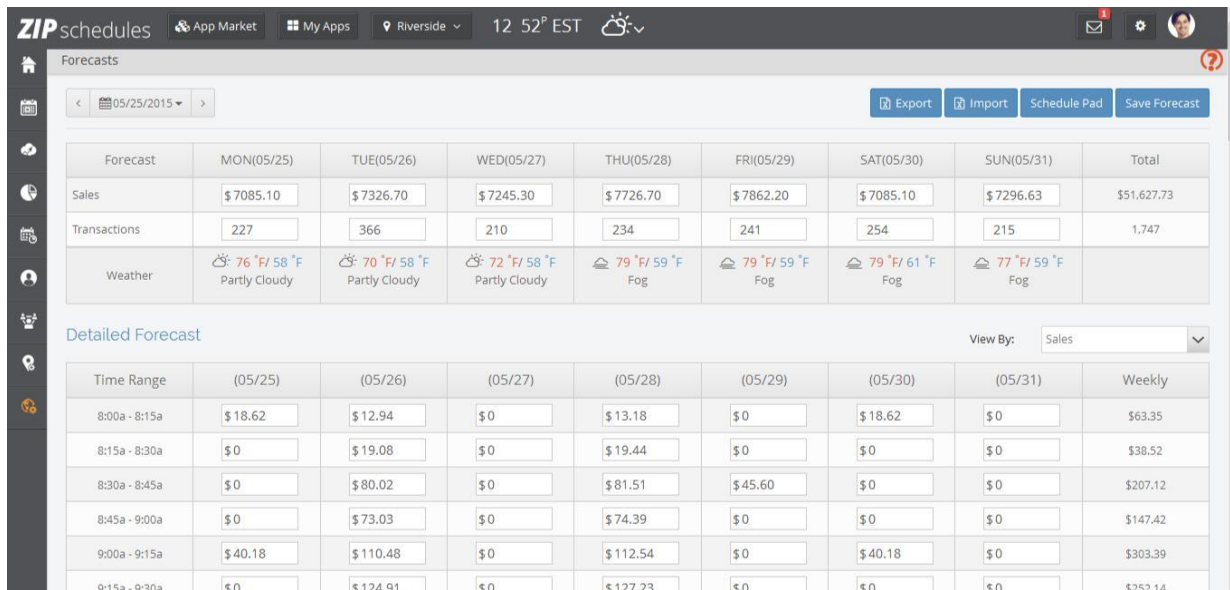
	Yes	Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.
indexNum	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.

Following is the response for the above mentioned request:

Sample Response

```
{
  "success": true
}
```

Once the forecast is present in the application then these values will reflect on the Actuals as shown below:



5.2 Get Forecast

The fetch Forecasted data from the HubWorks application, the request should be in the below mentioned format:

Sample Request

URL: <https://appServerURL/api/eoFcdMain/list>
 Example:
 URL: <https://app.hubworks.com/hwot/api/eoFcdMain/list>
 Header Data: "apikey": "9427880e727347038af8f9e250a449c8f9fe..."
 Post Data:

```
{
  "eoSiteMain": 24,
  "startDate": "11/21/2015",
  "endDate": "11/21/2015"
}
```

Parameter Detail

Parameter	Description	Data Type	Sample Data
eoSiteMain	Site's Primary Key.	Long	24
startDate	Start Date of start date range which we need forecast for. This value needs to be in double quotes and in MM/DD/YYYY format.	String	11/11/2015
endDate	End Date is end date range in which we need forecast. This value needs to be in double quotes and in MM/DD/YYYY format.	String	11/25/2015

The following table shows some key test cases and expected results. This is not a complete set of test

Parameter	Is Required	Cases	Expected Result
eoSiteMain	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.
startDate	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.
endDate	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.

cases. There could be more cases that are outside the scope of this document. Below is the sample response which will be sent for the above mentioned request:

Sample Response

```
{
  "data": [
    {
      "isMgrAdjusted": false,
      "busiDate": "11/21/2015",
      "fctConfNumb2": 25,
      "fctConfNumb1": 78.56,
      "mgrFctConfNumb1": 80.60,
      "mgrFctConfNumb2": 26,
      "isClosedDay": false,
      "fcdDetailArray": [
        {
          "fctConfNumb2": 10,
          "fctConfNumb1": 20.56,
          "mgrFctConfNumb1": 0,
          "indexNum": 0,
          "forecastedStaff": 0,
          "primaryKey": 62334
        },
        {
          "fctConfNumb2": 11,
          "fctConfNumb1": 16.56,
          "mgrFctConfNumb1": 0,
          "indexNum": 1,
          "forecastedStaff": 0,
          "primaryKey": 62335
        },
        {
          "fctConfNumb2": 6,
          "fctConfNumb1": 23.56,
          "mgrFctConfNumb1": 0,
          "indexNum": 30,
          "forecastedStaff": 0,
          "primaryKey": 62336
        },
        {

```

```

        "fctConfNumb2": 6,
        "fctConfNumb1": 30.56,
        "mgrFctConfNumb1": 0,
        "indexNum": 31,
        "forecastedStaff": 0,
        "primaryKey": 62337
    }
    ...
    ...
    ],
    "primaryKey": 651
}
],
"success": true
}

```

Parameter Detail

Parameter	Description	Data Type	Sample Data
fctConfNumb2	Total number of Transactions for the above mentioned business date.	Integer	10
fctConfNumb1	Sales for the above mentioned business date.	Double	71.42
IndexNum	Index of the day. An index indicates 15 minutes i.e. if the index is 0 then the time is from 12:00a to 12:15a or if the index is 1 then the time is 12:15a to 12:30a. There are total 96 indices in a day i.e. from 0 to 95. The 95 th index indicates 11:45p to 12:00a.	Integer	0,1,2,3...,44,45....
mgrFctConfNumb1	Manager adjusted forecasted sales.	Double	0
mgrFctConfNumb2	Manager adjusted forecasted transaction.	Integer	0
Primary Key	Unique Identifier for the object.	Long	198

fcdDetailArray	This array will contain the forecasted data based on 15 minute indexes.	Array	
busiDate	The date for which the data is fetched. It needs to be in MM/DD/YYYY format and in double quotes.	String	09/11/2015
isClosedDay	Whether the day is closed or not.	Boolean	true/false
isMgrAdjusted	If the forecasted data is adjusted by manager or not.	Boolean	true/false

Forecast Detail – 15 minutes detail of forecast

Parameter	Description	Data Type	Sample Data
fctConfNumb2	Forecasted Transactions.	Integer	0
fctConfNumb1	Forecasted Sales.	Double	0
IndexNum	Index of the day. An index indicates 15 minutes i.e. if the index is 0 then the time is from 12:00a to 12:15a or if the index is 1 then the time is 12:15a to 12:30a. There are total 96 indices in a day i.e. from 0 to 95. The 95 th index indicates 11:45p to 12:00a.	Integer	0,1,2,...44,45
mgrFctConfNumb2	Manager adjusted forecasted transaction.	Integer	1
mgrFctConfNumb1	Manager adjusted forecasted sales.	Double	35.71
forecastedStaff	Forecasted Staff.	Integer	0
primaryKey	Unique identifier for the detail.	Long	18912

6 Employees

This section lists all the APIs that are related to Employee Management. Employee Management is not different for Zip Schedules and Zip Clock.

Note: Hubworks applications share the same employee records. Any change made to the employee record from either UI or any of the Hubworks web/mobile application will reflect everywhere.

6.1 Create New Employee

To add a new employee in the application, a request should be sent as mentioned below:

Sample Request

URL: <https://appServerURL/api/eoEmpMain/create>
 Example:
 URL: <https://app.hubworks.com/hwot/api/eoEmpMain/create>
 Header Data: "apiKey": "9427880e727347038af8f9e250a449c8f9fe"
 Post Data:

```
{
  "eoSiteMain": 2,
  "firstName": "Mark",
  "lastName": "Johnson",
  "isMaxHrsPerWk": false,
  "payRate": 800,
  "maxHrsPerWk": 0,
  "eoEmpPositionArray":
  [
    {
      "skillLevel": 5,
      "eoLkJobPosition": 51
    },
    {
      "skillLevel": 3,
      "eoLkJobPosition": 53
    }
  ],
  "eoEmpCertificationArray":
  [
    {
      "expiryDate": "10/29/2015",
      "eoLkCertification": 50
    },
    {
      "expiryDate": "10/29/2015",
      "eoLkCertification": 52
    }
  ],
}
```

```

    "emailID": "mjohnson@hubworks.com",
    "samlUserID" : "anm123",
    "eoCustJobCode": "altaJobCode_3",
    "employeeId": 7899,
    "cellNumber": 8976879879,
    "isMinor": false
  }

```

Parameters Details

Parameter	Description	Data Type	Sample Data
eoSiteMain	Primary key of the Site.	Long	2
firstName	First name of the employee .It needs to be in double quotes.	String	Mark
lastName	Last name of the employee. It needs to be in double quotes.	String	Johnson
payRate	Pay Rate of the employee will be sent in multiples of 100. As per this sample the pay rate is \$8.00.	Integer	800
maxHrsPerWk	Value of maximum hour per week.	Integer	0
isMaxHrsPerWk	If ACA practice applies to the employee or not.	Boolean	true/false
emailID	Email id of the employee. It needs to be in double quotes.	String	mjohnson@Hubworks.com
eoCustJobCode	The employee's role (Manager, Supervisor, Crew). It needs to be in double quotes.	String	- altaJobCode_3 is for manager - altaJobCode_4 is for supervisor - altaJobCode_5 is for crew
isMinor	If the employee is minor or not.	Boolean	true/false
employeeId	Employee ID of the employee. This needs to be unique for every employee.	Integer	7899
eoEmpPositionArray	Array of position assigned to employee.	Integer	
skillLevel	Skill level of position.	Integer	1,2,3,4,5
eoLkJobPosition	Position assigned to the shift.	Integer	51
eoEmpCertificationArray	Array of certification assigned to employee.	Integer	
eoLkCertification	Certification assigned to the shift	Integer	50
expiryDate	Expiry date of certification. It needs to be in MM/DD/YYYY format in double quotes.	String	10/29/2015

cellNumber	Phone number of the employee	Long	8976879879
samlUserID	SAML user id is used for SSO authentication purpose. It needs to be in double quotes.	String	anm123

Note: To Login into the application SAML user id or Email id is required. Since SSO integration is not enabled, so SAML id will not be used. Instead of SAML id we will be using email id for login purpose.

The following table shows some key test cases and expected results. This is not a complete set of test cases. There could be more cases that are outside the scope of this document.

Parameter	Is Required	Cases	Expected Result
eoSiteMain	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.
firstName	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data i.e., not a string.	It will be rejected.
lastName	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data i.e., not a string.	It will be rejected.
payRate	No	Present and valid data	It will be processed.
		Not present	It will be processed.
		Present and Invalid Data i.e. not an integer	It will be rejected.
maxHrsPerWk	Yes	Present and valid data	It will be processed.
		Not present	It will be processed.
		Present and Invalid Data i.e. not an integer	It will be rejected.
isMaxHrsPerWk	No	Present and valid data	It will be processed.
		Not present	It will be processed.
		Present and Invalid Data	It will be rejected..
emailID	No	Present and valid data	It will be processed.
		Not present	It will be processed.
		Present and Invalid Data i.e. incorrect format but not a string (abc@test.com)	It will be rejected
eoCustJobCode	No	Present and valid data	It will be processed.

		Not present	It will be processed and employee type will be set as Crew.
		Present and Invalid Data i.e. not a string or not in valid format.	It will be rejected
isMinor	No	Present and valid data	It will be processed.
		Not present	It will be processed and employee will be set as Adult.
		Present and Invalid Data i.e. not a Boolean value.	It will be rejected
employeeid	No	Present and valid data	It will be processed.
		Not present	It will be processed.
		Present and Invalid Data i.e., not unique	It will be rejected
eoEmpPositionArray	Yes	Present and valid data	It will be processed.
		Not present	It will be processed.
		Present and Invalid Data	It will be processed but this information will be ignored.
skillLevel	Yes	Present and valid data	It will be processed.
		Not present	It will be processed and by default it will be set as 0.
		Present and Invalid Data	It will be processed and by default it will be set as 0.
eoLkJobPosition	Yes	Present and valid data	It will be processed.
		Not present	It will be processed.
		Present and Invalid Data i.e not an integer	It will be rejected
eoEmpCertificationArray	Yes	Present and valid data	It will be processed.
		Not present	It will be processed.
		Present and Invalid Data	It will be processed but this information will be ignored.
eoLkCertification	Yes	Present and valid data	It will be processed.
		Not present	It will be processed.
		Present and Invalid Data i.e not an integer	It will be rejected
expiryDate	Yes	Present and valid data	It will be processed.
		Not present	It will be processed and by default the certificate will be expired.
		Present and Invalid Data	It will be rejected.
cellNumber	No	Present and valid data	It will be processed.
		Not present	It will be processed.
		Present and Invalid Data	It will be processed but this information will be ignored.

samlUserID	No	Present and valid data	It will be processed.
		Not present	It will be processed without any SAML id and employee will not be able to Login.
		Present and Invalid Data i.e. not a string	It will be rejected.

Below is the sample response which will be sent for the above mentioned request:

Sample Response

```
{
  "data":
  {
    "payRate": 800,
    "lastName": "Johnson",
    "isMinor": false,
    "primaryKey": 1415,
    "cellNumber": 2096144085,
    "maxHrsPerWk": 0,
    "eoEmpPositionArray":
    [
      {
        "skillLevel": 5,
        "eoLkJobPosition": 51
      },
      {
        "skillLevel": 3,
        "eoLkJobPosition": 53
      }
    ],
    "eoEmpCertificationArray":
    [
      {
        "expiryDate": "10/29/2015",
        "eoLkCertification": 51
      },
      {
        "expiryDate": "10/29/2015",
        "eoLkCertification": 52
      }
    ]
  }
}
```

```

        "emailID": "mjohnson@hubworks.com",
        "isMaxHrsPerWk": false, "firstName":
        "Mark",
        "employeeId": "78997",
        "samlUserID" : "anml23",
        "eoCustJobCode": "altaJobCode_3"
    },
    "success": true
}

```

Parameters Details

Parameter	Description	Data Type	Sample Data
Primary key	Primary key of the employee.	Long	1415
firstName	First name of the employee. It needs to be in double quotes.	String	Mark
lastName	Last name of the employee. It needs to be in double quotes.	String	Johnson
payRate	Pay Rate of the employee will be sent in multiples of 100. As per this sample the pay rate is \$8.00.	Integer	800
maxHrsPerWk	Value of maximum hour per week.	Integer	0
isMaxHrsPerWk	If ACA practice applies to the employee or not.	Boolean	true/false
emailID	Email id of the employee. It needs to be in double quotes.	String	mjohnson@hubworks.com
eoCustJobCode	The employee's role (Manager, Supervisor, Crew). It needs to be in double quotes.	String	- altaJobCode_3 is for manager - altaJobCode_4 is for supervisor - altaJobCode_5 is for crew
isMinor	If the employee is minor or not.	Boolean	true/false
employeeId	Employee ID of the employee.	Integer	7899
eoEmpPositionArray	Array of position assigned to employee	Integer	
skillLevel	Skill level of position.	Integer	5
eoLkJobPosition	Position assigned to the shift	Integer	51

eoEmpCertificationArray	Array of certification assigned to employee	Integer	
eoLkCertification	Certification assigned to the shift	Integer	50
expiryDate	Expiry date of certification. It needs to be in MM/DD/YYYY format and in double quotes.	String	10/29/2015
cellNumber	Phone number of the employee.	Long	8976879879
samlUserID	SAML user id is used for SSO authentication purpose. It needs to be in double quotes.	String	anm123

Note: In case when the request is sent to the application to create employee then we do not require a primary key in the request. Once the request is processed then in the response the primary key will be sent back. Hence we have included the primary key in the parameter detail table.

As soon as the employee is added to the application then the same employee can be seen in the employee screen as shown below:

First Name	Last Name	Phone Number	Email	Employee Type	Actions
Andrew	Hopkins	-	ahopkins@hubworks.com	Crew	[Icons]
Mark	Johnson	-	mjohnson@hubworks.com	Manager	[Icons]
Paul	Haywards	-	-	Crew	[Icons]
Stacy	wilson	-	swilson@hubworks.com	Crew	[Icons]

6.2 Get Employee List

To fetch Employee's data from Hubworks application a request should be sent in the below mentioned format:

Sample Request

URL: <https://appServerURL/api/eoEmpMain/list>
 Example:
 URL: <https://app.hubworks.com/hwot/api/eoEmpMain/list>
 Header Data: "apiKey": "9427880e727347038af8f9e250a449c8f9fe..."
 Post Data:

```
{
  "eoSiteMain": 37
}
```

Parameter Detail

Parameter	Description	Data	Sample Data
eoSiteMain	Site's Primary Key	Long	37

The following table shows some key test cases and expected results. This is not a complete set of test cases. There could be more cases that are outside the scope of this document.

Parameter	Is Required	Cases	
eoSiteMain	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.

Below is the sample response which will be sent for the above mentioned request

Sample Response

```
{
  "data": [
    {
      "employeeId": "21",
      "payRate": 800,
      "lastName": "John",
      "emailID": "john@hubworks.com",
      "isMinor": false,
      "eoEmpPositionArray": [
        {
          "skillLevel": 0,
          "eoLkJobPosition": 190,
          "primaryKey": 5496
        }
      ],
      "primaryKey": 1506,
      "cellNumber": 8976567123,
      "maxHrsPerWk": 0,
      "eoEmpCertificationArray": [
        {
          "eoLkCertification": 30,
          "expiryDate": "11/11/2015",
          "primaryKey": 49
        }
      ],
      "isMaxHrsPerWk": false,
    }
  ]
}
```

```

    "firstName": "Mark",
    "samlUserID" : "anm123",
    "eoCustJobCode": "altaJobCode_5"
  },
  {
    "employeeId": "22",
    "payRate": 800,
    "lastName": "Kim",
    "emailID": "kim@hubworks.com",
    "isMinor": false,
    "eoEmpPositionArray": [
      {
        "skillLevel": 0,
        "eoLkJobPosition": 190,
        "primaryKey": 5496
      }
    ],
    "primaryKey": 1506,
    "cellNumber": 0,
    "maxHrsPerWk": 0,
    "eoEmpCertificationArray": [
      {
        "eoLkCertification": 30,
        "expiryDate": "11/11/2015",
        "primaryKey": 49
      }
    ],
    "isMaxHrsPerWk": false,
    "firstName": "Watson",
    "samlUserID" : "asd789",
    "eoCustJobCode": "altaJobCode_3"
  }
],
"success": true
}

```

Parameter	Description	Data Type	Sample Data
primaryKey	Primary key of the employee.	Long	1506
firstName	First name of the employee. It needs to be in double quotes.	String	Mark
lastName	Last name of the employee. It needs to be in double quotes.	String	John

payRate	Pay Rate of the employee will be sent in multiples of 100. As per this sample the pay rate is \$8.00.	Integer	800
maxHrsPerWk	Value of maximum hour per week.	Integer	0
isMaxHrsPerWk	If ACA practice applies to the employee or not.	Boolean	true/false
emailID	Email id of the employee. It needs to be in double quotes.	String	john@hubworks.com
eoCustJobCode	The employee's role (Manager, Supervisor, Crew). It needs to be in double quotes.	String	- altaJobCode_3 is for manager - altaJobCode_4 is for supervisor - altaJobCode_5 is for crew
isMinor	If the employee is minor or not.	Boolean	true/false
employeeID	Employee ID of the employee.	Integer	21
eoEmpPositionArray	Array of position assigned to employee.	Integer	
eoLkJobPosition	Position assigned to the shift.	Integer	190
skillLevel	Skill level of position.	Integer	1,2,3,4,5
primaryKey	Primary key of position.	Integer	5496
eoEmpCertificationArray	Array of certification assigned to employee.	Array	
primary Key	Primary key of certification.	Integer	49
eoLkCertification	Certification assigned to the shift.	Integer	30

expiryDate	Expiry date of certification. It needs to be in MM/DD/YYYY format and in double quotes.	String	1/11/2015
cellNumber	Phone number of the employee.	Long	8976567123
samlUserID	SAML user id is used for SSO authentication purpose. It needs to be in double quotes.	String	anm123

6.3 Update Employee

To update Employee's record in Hubworks application the request should be sent in the below mentioned format:

Sample Request

URL: <https://appServerURL/api/eoEmpMain/update>

Example:

URL: <https://app.hubworks.com/hwot/api/eoEmpMain/updates>

Header Data: "apiKey": "9427880e727347038af8f9e250a449c8f9fe"

Post Data:

```
{
  "primaryKey": 1,
  "firstName": "Mark",
  "lastName": "Johnson",
  "isMaxHrsPerWk": false,
  "payRate": 800,
  "maxHrsPerWk": 0,
  "eoEmpPositionArray":
  [
    {
      "primaryKey":101,
      "skillLevel":5,
      "eoLkJobPosition":51
    },
    {
      "primaryKey":102,
      "skillLevel":5,
      "eoLkJobPosition":53
    }
  ],
  "eoEmpCertificationArray":
```

```
[
  {
    "primaryKey":222,
    "expiryDate":"10/31/2015",
    "eoLkCertification":50
  },
  {
    "primaryKey":223,
    "expiryDate":"10/31/2015",
    "eoLkCertification":52
  }
],
"emailID": "mjohnson@hubworks.com",
"samlUserID" : "anm123",
"eoCustJobCode": "altaJobCode_3",
"employeeId": 78997,
"cellNumber": 8976879879,
"isMinor": false
}
```

Parameter Detail

Parameter	Description	Data Type	Sample Data
Primary key	Primary key of the employee	Long	1
firstName	First name of the employee. It needs to be in double quotes.	String	Mark
lastName	Last name of the employee. It needs to be in double quotes.	String	Johnson
payRate	Pay Rate of the employee will be sent in multiples of 100. As per this sample the pay rate is \$8.00.	Integer	800
maxHrsPerWk	Value of maximum hour per week.	Integer	0
isMaxHrsPerWk	If ACA practice applies to the employee or not.	Boolean	true/false
emailID	Email id of the employee. It needs to be in double quotes.	String	mjohnson@hubworks.c Om
eoCustJobCode	The employee's role (Manager, Supervisor, Crew). It needs to be in double quotes.	String	- altaJobCode_3 is for Manager - altaJobCode_4 is for Supervisor - altaJobCode_5 is for Crew
isMinor	If the employee is minor or not.	Boolean	true/false
employeeId	Employee ID of the employee.	Integer	7899
primaryKey	Primary key of position.	Integer	101

eoEmpPositionArray	Array of position assigned to employee.	Integer	
skillLevel	Skill level of position.	Integer	1,2,3,4,5
eoLkJobPosition	Position assigned to the shift.	Integer	51
primaryKey	Primary key of certification.	Integer	222
eoEmpCertificationArray	Array of certification assigned to employee.	Integer	
eoLkCertification	Certification assigned to the shift.	Integer	50
expiryDate	Expiry date of certification. It needs to be in MM/DD/YYYY format and in double quotes.	String	10/31/2015
cellNumber	Phone number of the employee.	Long	8976879879
samlUserID	SAML user id is used for SSO authentication purpose. It needs to be in double quotes.	String	anm123

Note: To Login into the application SAML user id or Email id is required. Since SSO integration is not enabled, so SAML id will not be used. Instead of SAML id we will be using email id for login purpose.

The following table shows some key test cases and expected results. This is not a complete set of test cases. There could be more cases that are outside the scope of this document.

Parameter	Is Required	Cases	Expected Result
Primary key	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected
		Present and Invalid Data	It will be rejected.
firstName	Yes	Present and valid data	First Name will be updated.
		Not present	It will be rejected.
		Present and Invalid Data i.e not a string	It will be rejected.
lastName	Yes	Present and valid data	Last Name will be updated.
		Not present	It will be rejected.
		Present and Invalid Data i.e. not a string	It will be rejected.
payRate	No	Present and valid data	It will be updated.
		Not present	It will be processed and the existing information will not be updated.
		Present and Invalid Data	It will be rejected.
maxHrsPerWk	Yes	Present and valid data	It will be updated.

		Not present	It will be processed and the existing information will not be updated.
		Present and Invalid Data	It will be rejected.
isMaxHrsPerWk	No	Present and valid data	It will be updated.
		Not present	It will be processed and the existing information will not be updated.
		Present and Invalid Data	It will be processed and the existing information will not be updated.
emailID	No	Present and valid data	It will be updated.
		Not present	It will be processed and the existing information will not be updated.
		Present and Invalid Data	It will be rejected.
eoCustJobCode	No	Present and valid data	It will be updated.
		Not present	It will be processed and the existing information will not be updated.
		Present and Invalid Data	It will be rejected.
isMinor	No	Present and valid data	It will be updated.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.
employeeid	No	Present and valid data	It will be updated.
		Not present	It will be rejected..
		Present and Invalid Data i.e., not unique	It will be rejected.
primaryKey		Present and valid data	It will be updated.
		Not present	It will be rejected.
		Present and Invalid Data i.e., not unique	It will be rejected.
eoEmpPositionArray	Yes	Present and valid data	It will be updated.
		Not present	It will be rejected.
		Present and Invalid Data	It will be processed but this information will be ignored.
skillLevel	Yes	Present and valid data	It will be updated.
		Not present	It will be processed and by default it will be set as 0.

		Present and Invalid Data	It will be rejected.
eoLkJobPosition	Yes	Present and valid data	It will be updated.
		Not present	It will be rejected.
		Present and Invalid Data i.e not an integer	It will be rejected.
primaryKey	Yes	Present and valid data	It will be updated.
		Not present	It will be rejected.
		Present and Invalid Data i.e., not an integer	It will be rejected.
eoEmpCertificationArray	Yes	Present and valid data	It will be updated.
		Not present	It will be rejected.
		Present and Invalid Data	It will be processed but this information will be ignored.
eoLkCertification	No	Present and valid data	It will be updated.
		Not present	It will be rejected.
		Present and Invalid Data i.e., not an integer	It will be rejected.
expiryDate	Yes	Present and valid data	It will be updated.
		Not present	It will be processed and by default certificate will be expired.
		Present and Invalid Data	It will be rejected.
cellNumber	No	Present and valid data	It will be updated.
		Not present	It will be rejected.
		Present and Invalid Data	It will be processed but this information will be ignored.
samlUserID	No	Present and valid data	It will be processed.
		Not present	It will be processed without any SAML id and employee will not be able to Login.
		Present and Invalid Data i.e. not a string	It will be rejected.

Following is the response which will be sent to the above request:

Sample Response

```
{
  "data":
  {
    {
```

```

    "primaryKey": 1,
    "firstName": "Mark",
    "lastName": "Johnson",
    "isMaxHrsPerWk": false,
    "payRate": 800,
    "maxHrsPerWk": 0,
    "eoEmpPositionArray":
    [
      {
        "primaryKey":101,
        "skillLevel":5,
        "eoLkJobPosition":51
      },
      {
        "primaryKey":102,
        "skillLevel":5,
        "eoLkJobPosition":53
      }
    ],
    "eoEmpCertificationArray":
    [
      {
        "primaryKey":222,
        "expiryDate":"10/31/2015",
        "eoLkCertification":50
      },
      {
        "primaryKey":223,
        "expiryDate":"10/31/2015",
        "eoLkCertification":52
      }
    ],
    "emailID": "mjohnson@hubworks.com",
    "samlUserID" : "anml23",
    "eoCustJobCode": "altaJobCode_3",
    "employeeId": "78997", "cellNumber":
    8976879879, "isMinor": false
  },
  "success": true,
}

```

Parameter Detail

Parameter	Description	Data Type	Sample Data
Primary key	Primary key of the employee	Integer	1
firstName	First name of the employee. It	String	Mark

	needs to be in double quotes.		
lastName	Last name of the employee. It needs to be in double quotes.	String	Johnson
payRate	Pay Rate of the employee will be sent in multiples of 100. As per this sample the pay rate is \$8.00.	Integer	800
maxHrsPerWk	Value of maximum hour per week.	Integer	0
isMaxHrsPerWk	If ACA practice applies to the employee or not.	Boolean	true/false
emailID	Email id of the employee. It needs to be in double quotes.	String	mjohnson@hubworks.com
eoCustJobCode	The employee's role (Manager, Supervisor, Crew).	String	- altaJobCode_3 is for Manager - altaJobCode_4 is for Supervisor - altaJobCode_5 is for crew
isMinor	If the employee is minor or not.	Boolean	true/false
employeeid	Employee ID of the employee.	Integer	7899
primaryKey	Primary key of position.	Integer	101
eoEmpPositionArray	Array of position assigned to employe.	Integer	
skillLevel	Skill level of position.	Integer	1,2,3,4,5
eoLkJobPosition	Position assigned to the shift.	Integer	51
primaryKey	Primary key of certification.	Integer	222
eoEmpCertificationArray	Array of certification assigned to employee.		
eoLkCertification	Certification assigned to the.shift	Integer	50
expiryDate	Expiry date of certification. It needs to be in MM/DD/YYYY format and in double quotes.	String	10/31/2015
cellNumber	Phone number of the employee.	Long	8976879879
samlUserID	SAML user id is used for SSO authentication purpose. It needs to be in double quotes.	String	anm123

6.4 Delete Employee

To delete an employee from the application, following is the request mentioned below:

Sample Request

URL: <https://appServerURL/api/eoEmpMain/delete>

Example:

URL: <https://app.hubworks.com/hwot/api/eoEmpMain/delete>

Header Data: "apikey": "9427880e727347038af8f9e250a449c8f9fe"

Post Data:

```
{
    "primaryKey": 1
}
```

Parameter Detail

Parameter	Description	Data Type	Sample Data
primaryKey	Primary Key of the employee.	Long	1

The following table shows some key test cases and expected results. This is not a complete set of test cases. There could be more cases that are outside the scope of this document.

Parameter	Is Required	Cases	Expected Result
primaryKey	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.

Following is the response which will be sent to the above request:

Sample Response

```
{
    "Success": true
}
```

6.5 Terminate Employee

To terminate an employee from a store, following is the request mentioned below:

Sample Request

URL: <https://appServerURL/api/eoEmpMain/terminate>

Example:

URL: <https://app.hubworks.com/hwot/api/eoEmMain/terminated>

Header Data: "apikey": "9427880e727347038af8f9e250a449c8f9fe"

Post Data:

```
{
    "eoSiteMain":123,
    "primaryKey":34
}
```

Parameter Detail

Parameter	Description	Data Type	Sample Data
eoSiteMain	Primary key of the Site.	Long	123
primaryKey	Primary Key of the employee.	Long	34

The following table shows some key test cases and expected results. This is not a complete set of test cases. There could be more cases that are outside the scope of this document.

Parameter	Is Required	Cases	Expected Result
eoSiteMain	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.
primaryKey	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.

Following is the response which will be sent to the above request:

Sample Response

```
{
    "Success": true
}
```

6.6 Employee Sharing

Sharing a Partner is a process in which partner is shared in multiple sites through API. In Partner sharing API we provide the desired site's primary key and share the partner to that site. In sharing a partner we provide partner primary key and sites primary key in the site array. We can provide multiple numbers of sites while sharing partner.

Following is API for sharing a partner into multiple stores.

Sample Request

```
URL: https://appServerURL/api/eoEmpMain/share
Example:
URL: https://app.hubworks.com/hwot/api/eoEmpMain/share
Header Data: "apikey": "9427880e727347038af8f9e250a449c8f9fe"
Post Data:
{
    "siteArray": [11,22],
    "primaryKey": 34
}
```

Parameter Detail

Parameter	Description	Data Type	Sample Data
siteArray	Array of Sites.	Long	[11,22]
eoEmpMain	Primary Key of the partner.	Long	34

The following table shows some key test cases and expected results. This is not a complete set of test cases. There could be more cases that are outside the scope of this document.

Parameter	Is Required	Cases	Expected Result
eoSiteMain	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.
primaryKey	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.

Following is the response which will be sent to the above request:

Sample Response

```
{
  "Success": true
}
```

6.7 Reactivate Employee

To reactivate a terminated employee from the application or from a site, following is the request mentioned below:

Sample Request

URL: <https://appServerURL/api/eoEmpMain/activate>

Example:

URL: <https://app.hubworks.com/hwot/api/eoEmpMain/activate>

Header Data: "apikey": "9427880e727347038af8f9e250a449c8f9fe"

Post Data:

```
{
  "primaryKey": 1
}
```

Parameter Detail

Parameter	Description	Data Type	Sample Data
-----------	-------------	-----------	-------------

primaryKey	Primary Key of the employee.	Long	1
------------	------------------------------	------	---

The following table shows some key test cases and expected results. This is not a complete set of test cases. There could be more cases that are outside the scope of this document.

Parameter	Is Required	Cases	Expected Result
primaryKey	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.

Following is the response which will be sent to the above request:

Sample Response

```
{
  "Success": true
}
```

7 Shifts

7.1 Create Shift

To create a shift in the application, following is the request mentioned below:

Sample Request

```
URL: https://appServerURL/api/eoEmpShift/create
Example:
URL: https://app.hubworks.com/hwot/api/eoEmpShift/create
Header Data: "apikey": "9427880e727347038af8f9e250a449c8f9fe..."
Post Data:
{
  "eoSiteMain": 24,
  "startIndex": 32,
  "endIndex": 63,
  "busiDate": "12/22/2015",
  "eoLkJobPosition": 6,
  "isPosted": false,
  "breakMnts": 30,
  "eoEmpMain": 241,
}
```

```

    "payRate": 800
  }

```

Parameter Detail

Parameter	Description	Data Type	Sample Data
eoSiteMain	Site's Primary Key.	Long	24
startIndex	Shift Start Index.	Integer	32
endIndex	Shift End Index.	Integer	63
busiDate	The date for which the shift is being created. It needs to be in MM/DD/YYYY format and in double quotes.	String	12/22/2015
eoLkJobPosition	Position assigned to the shift.	Integer	6
isPosted	If the shift is published or not.	Boolean	true/false
breakMnts	Total break minutes.	Integer	30
eoEmpMain	Employee's primary key.	Long	241
payRate	Pay Rate of the employee multiplied by 100. As per this sample the pay rate is \$8.00.	Integer	800

The following table shows some key test cases and expected results. This is not a complete set of test cases. There could be more cases that are outside the scope of this document.

Parameter	Is Required	Cases	Expected Result
eoSiteMain	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.
payRate	No	Present and valid data	It will be processed.
		Not present	It will be processed.
		Present and Invalid Data	It will be rejected.
isPosted	No	Present and valid data	It will be processed.
		Not present	It will be processed.
		Present and Invalid Data	It will be rejected.
breakMnts	No	Present and valid data	It will be processed.
		Not present	It will be processed.
		Present and Invalid Data	It will be rejected.

eoLkJobPosition	No	Present and valid data	It will be processed.
		Not present	It will be processed.
		Present and Invalid Data	It will be rejected.
startIndex	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.
endIndex	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.
busiDate	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.
eoEmpMain	No	Present and valid data	It will be processed.
		Not present	It will be processed unassigned shift will be added.
		Present and Invalid Data	It will be rejected.

Following is the response which will be sent to the above request:

Sample Response

```
{
  "data": {
    "breakMnts": 30,
    "startIndex": 32,
    "endIndex": 63,
    "busiDate":
    "09/11/2015", "payRate":
    800, "eoEmpMain": 241,
    "eoLkJobPosition": 6,
    "primaryKey": 627,
    "isPosted": false
  },
  "success": true
}
```

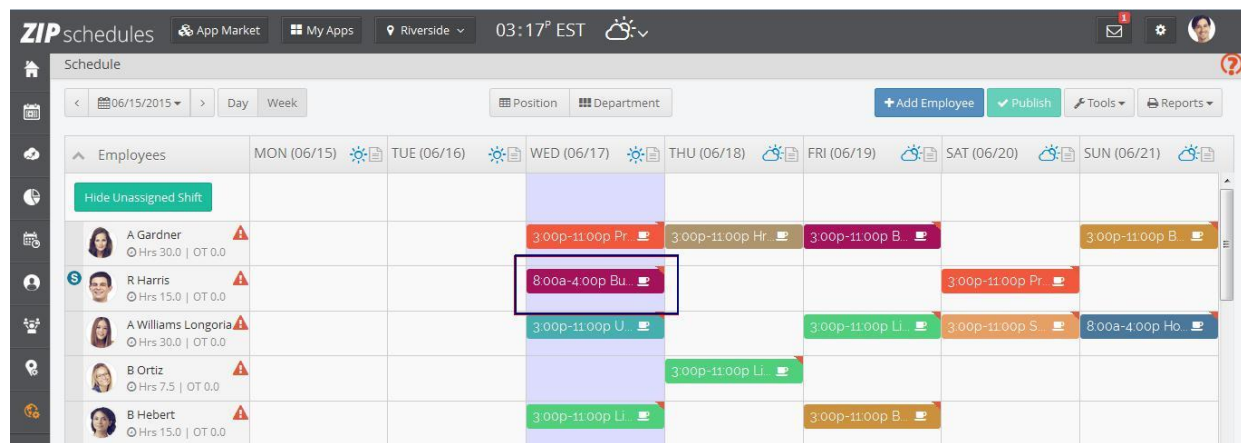
Parameter Detail

Parameter	Description	Data Type	Sample Data
-----------	-------------	-----------	-------------

breakMnts	Shift break minutes.	Long Integer	30
startIndex	Shift Start Index.	Integer	32
endIndex	Shift End Index.	Integer	63
busiDate	The date for which the shift is being created. It will be in quotes and in MM/DD/YYYY format.	String	09/11/2015
payRate	Pay Rate of the employee multiplied by 100. As per this sample the pay rate is \$8.00.	Integer	800
eoEmpMain	Employee's primary key..	Integer	241
eoLkJobPosition	Position assigned to the shift.	Integer	6
primaryKey	Primary key of the shift.	Integer	627
isPosted	If the shift is published or not.	Boolean	true/false

Note: Once the shift is created in a new week whose week object is still not enabled, as soon as week object is enabled by creating shift its forecast for that week will also be created.

Once the shift is created in the application then these values will reflect on the Actuals as shown below:



7.2 Get Shift List

The data can be fetched only for 3 weeks in one go for a particular site.

The fetch Shift's data from the Hubworks application the request should be in the below mentioned format:

Sample Request

URL: <https://appServerURL/api/eoEmpShift/list>
 Example:
 URL: <https://app.hubworks.com/hwot/api/eoEmpShift/list>
 Header Data: "apikey": "9427880e727347038af8f9e250a449c8f9fe..."
 Post Data:

```
{
  "eoSiteMain" : 24,
```

```

    "startDate": "09/11/2015",
    "endDate": "09/14/2015"
  }

```

Parameter Detail

Parameter	Description	Data Type	Sample Data
eoSiteMain	Site's Primary Key.	Long	24
startDate	Start Date is the date from which the data is required. we need the data. It needs to be in MM/DD/YYYY format in double quotes.	String	09/11/2015
endDate	End Date is the date till we need the data. It needs to be in MM/DD/YYYY format and in double quotes.	String	09/14/2015

The following table shows some key test cases and expected results. This is not a complete set of test cases. There could be more cases that are outside the scope of this document.

Parameter	Is Required	Cases	Expected Result
eoSiteMain	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.
startDate	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.
endDate	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.

Sample Response

```

{
  "data": [
    {
      "payRate": 800,
      "breakMnts": 30,
      "startIndex": 32,
      "eoEmpMain": 244,
      "eoLkJobPosition": 6,
      "primaryKey": 628,
    }
  ]
}

```

```

        "busiDate": "09/11/2015",
        "endIndex": 63,
        "isPosted": true
    },
    {
        "payRate": 0, "breakMnts":
        0, "startIndex": 44,
        "eoEmpMain": 241,
        "eoLkJobPosition": 40,
        "primaryKey": 630,
        "busiDate": "09/13/2015",
        "endIndex": 71,
        "isPosted": true
    },
    {
        "payRate": 0, "breakMnts":
        15, "startIndex": 32,
        "eoEmpMain": 241,
        "eoLkJobPosition": 39,
        "primaryKey": 626,
        "busiDate": "09/11/2015",
        "endIndex": 63,
        "isPosted": false
    }
],
    "success": true
}

```

Parameter Detail

Parameter	Description	Data Type	Sample Data
payRate	Pay Rate of the employee multiplied by 100. As per this sample the pay rate is \$8.00.	Integer	800
breakMnts	Total break minutes.	Integer	30
startIndex	Shift Start Index.	Integer	32
eoEmpMain	Employee's Primary key.	Integer	244
eoLkJobPosition	Position assigned to the shift.	Integer	6
primarykey	Shift's primary key.	Integer	628
busiDate	Date for which the shift belongs. It needs to be in MM/DD/YYYY format and in double quotes.	String	09/11/2015
endIndex	Shift end Index.	Integer	63
isPosted	If the shift is published or not.	Boolean	true/false

7.3 Get shift based on Employee

To retrieve data of an employee from the application, following is the request mentioned below:

Sample Request

URL: <https://appServerURL/api/eoEmpMain/schedule>
 Example:
 URL: <https://app.hubworks.com/hwot/api/eoEmpMain/schedule>
 Header Data: "apiKey": "9427880e727347038af8f9e250a449c8f9fe"
 Post Data:

```
{
  "eoEmpMain" : 500,
  "startDate": "10/20/2015",
  "endDate":
  "10/24/2015"
}
```

Parameter Detail

Parameter	Description	Data Type	Sample Data
eoEmpMain	Employee's Primary Key	Long	500
startDate	Start Date is the the date from which the data is required.. It needs to be in MM/DD/YYYY format and in double quotes.	String	10/20/2015
endDate	End Date is the date till we need the data. It needs to be in MM/DD/YYYY format and in double quotes.	String	10/24/2015

The following table shows some key test cases and expected results. This is not a complete set of test cases. There could be more cases that are outside the scope of this document.

Parameter	Is Required	Cases	Expected Result
eoEmpMain	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.
startDate	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.
endDate	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.

Sample Response

```
{
  "data":
  {
    "title": "Ashley Jones",
    "empData":
    [
      {
        "shiftArray":
        [
          {
            "payRate": 800,
            "breakMnts": 30,
            "startIndex": 32,
            "eoEmpMain": 281,
            "primaryKey": 978,
            "busiDate": "10/21/2015",
            "endIndex": 63,
            "isPosted": true
          },
          {
            "payRate": 0, "breakMnts":
            0, "startIndex": 32,
            "eoEmpMain": 281,
            "primaryKey": 979,
            "busiDate": "10/22/2015",
            "endIndex": 63,
            "isPosted": true
          },
          {
            "payRate": 0, "breakMnts":
            0, "startIndex": 32,
            "eoEmpMain": 281,
            "primaryKey": 980,
            "busiDate": "10/23/2015",
            "endIndex": 63,
            "isPosted": true
          }
        ],
        "eoSiteMain": 27,
        "siteName": "Site 1"
      },
      {
        "shiftArray":
        [
```

```

    {
        "payRate": 0, "breakMnts":
        0, "startIndex": 32,
        "eoEmpMain": 281,
        "primaryKey": 981,
        "busiDate": "10/24/2015",
        "endIndex": 63,
        "isPosted": true
    },
    {
        "payRate": 0, "breakMnts":
        0, "startIndex": 32,
        "eoEmpMain": 281,
        "primaryKey": 982,
        "busiDate": "10/25/2015",
        "endIndex": 63,
        "isPosted": true
    }
],
"eoSiteMain": 30,
"siteName": "Site 2"
}
],
"emailID": "ajones@test.com"
},
"success": true
}

```

Parameter	Description	Data Type	Sample Data
Title	Name of the employee.	String	Ashley Jones
payRate	Pay Rate of the employee will be sent in multiples of 100. As per this sample the pay rate is \$8.00.	Integer	800
breakMnts	Shift break minutes.	Long Integer	30
startIndex	Shift Start Index.	Integer	32
eoEmpMain	Primary key of the employee.	Long	281
primaryKey	Primary key of the shift.	Integer	978
busiDate	Date in which the shift is created. It will be in quotes and in MM/DD/YYYY format.	String	10/21/2015
endIndex	Shift End Index.	Integer	63
isPosted	If the shift is published or not.	Boolean	true/false

eoSiteMain	Site's Primary Key.	Long	27
Sitename	Name of the site.	String	Site 1
emailID	Email id of the employee.	String	ajones@test.com

7.4 Update Shift

To update the shift from the application, Following is the request mentioned below:

Sample Request

```

URL: https://appServerURL/api/eoEmpShift/update
Example:
URL: https://app.hubworks.com/hwot/apiKey/eoEmpShift/update
Header Data: "apikey": "9427880e727347038af8f9e250a449c8f9fe"
Post Data:
{
    "primaryKey": 6,
    "startIndex": 32,
    "endIndex": 63,
    "eoLkJobPosition": 6,
    "busiDate": "12/22/2015",
    "isPosted": false,
    "breakMnts": 30,
    "eoEmpMain": 16,
    "payRate": 800
}

```

Parameter Detail

Parameter	Description	Data Type	Sample Data
primaryKey	Shift's Primary Key.	Long	6
startIndex	Shift Start Index.	Integer	32
endIndex	Shift end Index.	Integer	63
eoLkJobPosition	Position assigned to the shift.	Integer	6
busiDate	The date for which the shift belongs to. It needs to be in MM/DD/YYYY format and in double quotes.	String	12/22/2015
isPosted	If the shift is published or not.	Boolean	true/false
breakMnts	Total break minutes.	Integer	30
eoEmpMain	Employee's Primary key.	Long	16
payRate	Pay Rate of the employee multiplied by 100. As per this sample the pay rate is \$8.00.	Integer	800

The following table shows some key test cases and expected results. This is not a complete set of test cases. There could be more cases that are outside the scope of this document.

Parameter	Is Required	Cases	Expected Result
-----------	-------------	-------	-----------------

primaryKey	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.
startIndex	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.
eoLkJobPosition	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.
eoSchDayMain	No	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.
endIndex	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.
breakMnts	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.
eoEmpMain	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.
isPosted	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.
payRate	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.

Following is the response for the above request mentioned below:

Sample Response

{

```

    "data": {
        "payRate": 800,
        "breakMnts": 30
        "startIndex": 32,
        "eoEmpMain": 16,
        "eoLkJobPosition": 38,
        "primaryKey": 6,
        "busiDate": "12/22/2015",
        "endIndex": 63,
        "isPosted": false
    },
    "success": true
}

```

Parameter Detail

Parameter	Description	Data Type	Sample Data
primaryKey	Shift's primary key	Integer	6
breakMnts	Total break minutes	Integer	30
busiDate	Date belongs for which the shift is being updated. It will be in quotes and in MM/DD/YYYY format.	String	12/22/2015
payRate	Pay Rate of the employee multiplied by 100. As per this sample the pay rate is \$8.00.	Integer	800
eoEmpMain	Employee's Primary key	Integer	16
eoLkJobPosition	Position assigned to the shift	Integer	6
startIndex	Shift Start Index	Integer	32
isPosted	Is shift published	Boolean	True/false
endIndex	Shift end Index	Integer	63

7.5 Delete Shift

To delete the shift from the application, following is the request mentioned below:

Sample Request

URL: <https://appServerURL/api/eoEmpShift/delete>
 Example:
 URL: <https://app.hubworks.com/hwot/api/eoEmpShift/delete>
 Header Data: "apikey": "9427880e727347038af8f9e250a449c8f9fe..."
 Post Data:

```

{
    "primaryKey": 6,

```

```
}

```

Parameter Detail

Parameter	Description	Data Type	Sample Data
primaryKey	Shift's Primary Key	Long	6

The following table shows some key test cases and expected results. This is not a complete set of test cases. There could be more cases that are outside the scope of this document.

Parameter	Is Required	Cases	Expected Result
primaryKey	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.

Following is the response for the above mentioned request:

Sample Response

```
{
  "success": true
}
```

7.6 Publish Shift

To publish the shift in the application, following is the request mentioned below:

Sample Request

```
URL: https://appServerURL/api/eoEmpShift/publish
Example:
URL: https://app.hubworks.com/hwot/api/eoEmpShift/publish
Header Data: "apikey": "9427880e727347038af8f9e250a449c8f9fe..."
Post Data:
{
  "shiftIdArray": [1,12,34]
}
```

Parameter Detail

Parameter	Description	Data Type	Sample Data
shiftIdArray	Array of shift's Primary Key	Long	[1,12,34]

The following table shows some key test cases and expected results. This is not a complete set of test cases. There could be more cases that are outside the scope of this document.

Parameter	Is Required	Cases	Expected Result
primaryKey	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.

Following is the response for the above mentioned request:

Sample Response

```
{
  "success": true,
}
```

8 Punches

8.1 Get Punch List

To fetch punches data from the application following is the format of the request that needs to be sent:

Sample Request

```
URL: https://appServerURL/api/eoTdyEmpPunchDetail/list
Example:
URL: https://app.hubworks.com/hwot/api/eoTdyEmpPunchDetail/list
Header Data: "apikey": "9427880e727347038af8f9e250a449c8f9fe..."
Post Data:
{
  "eoSiteMain" : 37,
  "startDate": "12/22/2015",
  "endDate": "12/22/2015"
}
```

Parameter Detail

Parameter	Description	Data Type	Sample Data
eoSiteMain	Primary Key of the Site.	Long	37
startDate	Start Date of punch. It will be in double quotes. It needs to be in MM/DD/YYYY format and in double quotes.	String	"12/22/2015"
endDate	End Date of punch. It will be in double quotes. It needs to be in MM/DD/YYYY format and in double quotes.	String	"11/22/2015"

The following table shows some key test cases and expected results. This is not a complete set of test cases. There could be more cases that are outside the scope of this document.

Parameter	Is Required	Cases	Expected Result
eoSiteMain	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.
startDate	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.
endDate	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.

Following is the response which will be sent corresponding to the above request:

Sample Response

```
{
  "data": [
    {
      "lastModifiedAt": "12/22/2015
09:45", "punchStatus": "CLOCKED_IN",
      "eoLkPosition": 33,
      "isWkFinalized": false,
      "busiDate": "12/22/2015",
      "schStatus": "NOT_ELIGIBLE",
      "statusIID": "MODIFIED",
      "eoEmpMain": 185,
      "startTime": 306,
      "isApproved": true,
      "eoTdyEmpBrkDetailArray": [
        {
          "busiDate": "12/22/2015",
          "startTime": 459,
          "endTime": 534,
          "primaryKey": 10
        }
      ],
      "primaryKey": 41
    },
    {
      "lastModifiedAt": "12/22/2015
09:47", "punchStatus": "CLOCKED_IN",
      "eoLkPosition": 33,
```

```

        "isWkFinalized": false,
        "busiDate": "12/22/2015",
        "schStatus": "NOT_ELIGIBLE",
        "statusIID": "MODIFIED",
        "eoEmpMain": 276,
        "startTime": 166,
        "isApproved": true,
        "eoTdyEmpBrkDetailArray": [
            {
                "busiDate": "12/22/2015",
                "startTime": 207,
                "endTime": 220,
                "primaryKey": 11
            }
        ],
        "primaryKey": 42
    },
    {
        "punchStatus": "CLOCKED_IN",
        "eoLkPosition": 34,
        "isWkFinalized": false,
        "busiDate": "12/22/2015",
        "schStatus": "NOT_ELIGIBLE",
        "eoEmpMain": 178,
        "startTime": 411,
        "isApproved": true,
        "eoTdyEmpBrkDetailArray": [],
        "primaryKey": 37
    }
],
"success": true
}

```

Parameter Detail

Parameter	Description	Data Type	Sample Data
Primarykey	Primary key of the punch.	Long	6
busiDate	Start Date of a Punch. It needs to be in MM/DD/YYYY format and in double quotes.	String	12/22/2015
startTime	Start time or Clock In time of the punch. It needs to be in minutes.	String	120
endTime	End time or Clock Out time of punch. It needs to be in minutes.	String	750
eoEmpMain	Employee's Primary key.	Long	16
lastModifiedAt	Time at which the latest change was made to the punch. The format is MM/DD/YYYY HH:MM and in double quotes.	String	12/22/2015 09:45

isApproved	Depicts whether the punch is approved or not. This field is important when crew manually updates the punch or performs any action outside the restricted geo location area.	Boolean	true/false
statusIID	It is the status of the punch being modified or not. If the punch is not modified the statusIID field will not be present. It needs to be in double quotes.	String	Modified
schStatus	It is the status which depicts, whether the employee is on schedule or violated his schedule or he is scheduled but clocked in. It needs to be in double quotes.	String	ON_SCHEDULE: If an employee clocked in on scheduled time. VIOLATED_SCHEDULE: If an employee has violated his schedule start time. NOT_ELIGIBLE: If employee is not scheduled but clocked in.
eoTdyEmpBreakDetailArray	This section contains the list of breaks taken in the corresponding punch.	Array of breaks	
startTime	Break start time and it needs to be in minutes.	String	120
endTime	Break end time and it needs to be in minutes.	String	750
isWkFinalized	Whether the week is finalized or not.	Boolean	true/false
primary key	Primary key of Break	Long	4
punchStatus	It is the current status of the punch, whether the employee is clocked in or on break . If the punch is closed then punch status field will not be present. It needs to be in double quotes.	String	CLOCKED_IN: If an employee is clocked in. BREAK_IN: If an employee is on Break.
eoLkJobPosition	Primary key of position to which employee punched in for the corresponding schedule	Long	33

8.2 Get Punches based on Employee

To retrieve data of an employee from the application, following is the request mentioned below:

Sample Request

URL: <https://appServerURL/api/eoEmpMain/punches>
 Example:
 URL: <https://app.hubworks.com/hwot/api/eoEmpMain/punches>
 Header Data: "apikey": "9427880e727347038af8f9e250a449c8f9fe"
 Post Data:

```
{
  "eoEmpMain" : 500,
  "startDate": "10/20/2015",
  "endDate": "10/24/2015"
}
```

Parameter Detail

Parameter	Description	Data Type	Sample Data
eoEmpMain	Employee's Primary Key	Long	500
startDate	Start Date of punch. It will be in double quotes. It needs to be in MM/DD/YYYY format and in double quotes.	String	10/20/2015
endDate	Start Date of punch. It will be in double quotes. It needs to be in MM/DD/YYYY format and in double quotes.	String	10/24/2015

The following table shows some key test cases and expected results. This is not a complete set of test cases. There could be more cases that are outside the scope of this document.

Parameter	Is Required	Cases	Expected Result
eoEmpMain	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.
startDate	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.
endDate	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.

Sample Response

```
{
  "data":
  {
    "title": "Austin Jones",
    "empData":
    [
      {
        "punchArray":
        [
          {
            "StartTime": 300,
            "schStatus": "NOT_ELIGIBLE",
            "eoLkPosition": 34,
            "primaryKey": 964,
            "busiDate": "10/22/2015",
            "isApproved": true,
            "isWkFinalized": false,
            "endTime": 420,
            "lastModifiedAt": "10/23/2015 7:00"
            "eoTdyEmpBrkDetailArray": []
          },
          {
            "StartTime": 720,
            "schStatus": "NOT_ELIGIBLE",
            "eoLkPosition": 34,
            "primaryKey": 962,
            "busiDate": "10/22/2015",
            "isApproved": true,
            "isWkFinalized": false,
            "statusIID": Modified,
            "endTime": 1080,
            "lastModifiedAt": "10/23/2015
            18:00" "eoTdyEmpBrkDetailArray": []
          },
          {
            "StartTime": 860,
            "schStatus": "NOT_ELIGIBLE",
            "eoLkPosition": 34,
            "primaryKey": 969,
            "busiDate": "10/23/2015",
            "isWkFinalized": false,
            "isApproved": true,
            "endTime": 990,
            "lastModifiedAt": "10/23/2015
            16:30" "eoTdyEmpBrkDetailArray":
            [
              {
                "startTime": 963,
                "endTime": 971,
```

```
        "busiDate": "10/23/2015"
        "primaryKey": 67
    }
]
},
"eoSiteMain": 150,
"siteName": "Santa Ana"
},
{
    "punchArray":
    [
        {
            "StartTime": 180,
            "schStatus": "NOT_ELIGIBLE",
            "primaryKey": 972,
            "busiDate": "10/22/2015",
            "isApproved": true,
            "isWkFinalized": false,
            "endTime": 240,
            "lastModifiedAt": "10/23/2015 4:10"
            "eoTdyEmpBrkDetailArray": [
                {
                    "startTime": 196,
                    "endTime": 205,
                    "busiDate": "10/22/2015"
                    "primaryKey": 76
                }
            ]
        },
        {
            "StartTime": 1383,
            "schStatus": "NOT_ELIGIBLE",
            "eoLkPosition": 34,
            "primaryKey": 974,
            "busiDate": "10/22/2015",
            "isApproved": true,
            "isWkFinalized": false,
            "punchStatus": "CLOCKED_IN",
            "lastModifiedAt": "10/23/2015 8:10"
            "eoTdyEmpBrkDetailArray": []
        }
    ],
    "eoSiteMain": 159,
    "siteName": "Costamesa"
}
],
"emailID": "austin@test.com"
},
"success": true
```

}

Parameter Detail

Parameter	Description	Data Type	Sample Data
title	Employee's Name. It needs to be in double quotes	String	Austin Jones
Primarykey	Primary key of the punch.	Long	964
busiDate	Start Date of a Punch. It needs to be in MM/DD/YYYY format and in double quotes.	String	10/23/2015
startTime	Start time or Clock In time of the punch and it needs to be in minutes.	String	120
endTime	End time or Clock out time of punch and it needs to be in minutes.	String	750
lastModifiedAt	Time at which the latest change was made to the punch. The format is MM/DD/YYYY HH:MM and in double quotes.	String	10/23/2015 08:10
isApproved	Depicts whether the punch is approved or not. This field is important when crew manually updates the punch or performs any action outside the restricted geo location area.	Boolean	true/false
schStatus	It is the current status of the schedule, whether the employee on schedule or employee has violated his schedule or employee was not scheduled but clocked in. It needs to be in double quotes.	String	ON_SCHEDULE: If an employee clocked in on scheduled time. VIOLATED_SCHEDULE: If an employee has violated his schedule start time. NOT_ELIGIBLE: If employee is not scheduled but clocked in.
eoTdyEmpBreak DetailArray	This section contains the list of breaks taken in the corresponding punch.	Array of breaks	
startTime	Break start time and it needs to be in minutes.	String	120
endTime	Break end time and it needs to be in minutes.	String	750
busiDate	Start Date of a Break. It needs to be in MM/DD/YYYY format and in double quotes.	String	10/23/2015
eoSiteMain	Site's Primary Key	Long	150
siteName	Site's Name. It needs to be in double	String	Santa Ana

	Quotes		
emailID	Employee's EmailID. It needs to be in double quotes.	String	austin@test.com
isWkFinalized	Whether the week is finalized	Boolean	true/false
primary key	Primary key of Break	Long	67
statusIID	It is the status of the punch being modified or not. If the punch is not modified the statusIID field will not be present. It needs to be in double quotes.	String	Modified
punchStatus	It is the current status of the punch, whether the employee is clocked in or on break. If the punch is closed then punch status field will not be present. It needs to be in double quotes.	String	CLOCKED_IN: If an employee is clocked in. BREAK_IN: If an employee is on Break.
eoLkJobPosition	Primary key of position to which employee punched in for the corresponding schedule	Long	33

8.3 System Punch In

To punch in from system or sign in from system we will follow following API:

Sample Request

URL: <https://appServerURL/api/eoTdyEmpPunchDetail/punchIn>
 Example:
 URL: <https://app.hubworks.com/hwot/api/eoTdyEmpPunchDetail/punchIn>
 Header Data : "apikey":"9427880e727347038af8f9e250a449c8f9fe..."
 Post Data: {
 "eoEmpMain": 12,
 "eoSiteMain": 2
 }

Parameter	Description	Data Type	Sample Data
eoEmpMain	Employee Primary Key	Long	12
eoSiteMain	Site Primary Key	Long	2

The following table shows some key test cases and expected results. This is not a complete set of test cases. There could be more cases that are outside the scope of this document.

Parameter	Is Required	Cases	Expected Result
-----------	-------------	-------	-----------------

eoEmpMain	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.
eoSiteMain	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.

Following is the response for the above mentioned request:

Sample Response

```
{
  "data": {
    "startTime": 730,
    "primaryKey": 92
  },
  "success": true
}
```

8.4 System Punch Out

To punch out from system or sign out from system we will follow following API:

URL: <https://appServerURL/api/eoTdyEmpPunchDetail/punchOut>
 Example:
 URL: <https://app.hubworks.com/hwot/api/eoEmpPunchDetail/punchOut>
 Header Data: "apikey": "9427880e727347038af8f9e250a449c8f9fe"
 Post Data:

```
{
  "primaryKey": 92
}
```

Parameter Detail

Parameter	Description	Data Type	Sample Data
PrimaryKey	Punch Primary Key	Long	92

The following table shows some key test cases and expected results. This is not a complete set of test cases. There could be more cases that are outside the scope of this document.

Parameter	Is Required	Cases	Expected Result
PrimaryKey	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.

		Present and Invalid Data	It will be rejected.
--	--	--------------------------	----------------------

Following is the response for the above mentioned request:

Sample Response

```
{
  "success": true
}
```

8.5 Start Break

To start break from system for a punch, we will use following API:

Sample Request

URL: <https://appServerURL/api/eoTdyEmpPunchDetail/startBreak>
 Example:
 URL: <https://app.hubworks.com/hwot/api/eoTdyEmpPunchDetail/startBreak>
 Header Data: "apiKey": "9427880e727347038af8f9e250a449c8f9fe"

Sample Request

```
{
  "primaryKey": 92
}
```

Parameter Detail

Parameter	Description	Data Type	Sample Data
PrimaryKey	Punch Primary Key	Long	92

The following table shows some key test cases and expected results. This is not a complete set of test cases. There could be more cases that are outside the scope of this document.

Parameter	Is Required	Cases	Expected Result
PrimaryKey	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.

Following is the response for the above mentioned request:

Sample Response

```
{  
  "success": true  
}
```

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8.6 End Break

To end break from system for a punch, following API will be used:

Sample Request

URL: <https://api.hubworks.com/hw/api/eoTdyEmpPunchDetail/endBreak>

Example:

URL: <https://app.hubworks.com/hwot/api/eoTdyEmpPunchDetail/endBreak>

Header Data: "apiKey": "9427880e727347038af8f9e250a449c8f9fe"

Sample Data

```
{
  "primaryKey": 92
}
```

Parameter Detail

Parameter	Description	Data Type	Sample Data
PrimaryKey	Punch Primary Key	Long	92

The following table shows some key test cases and expected results. This is not a complete set of test cases. There could be more cases that are outside the scope of this document.

Parameter	Is Required	Cases	Expected Result
PrimaryKey	Yes	Present and valid data	It will be processed.
		Not present	It will be rejected.
		Present and Invalid Data	It will be rejected.

Following is the response for the above mentioned request:

Sample Response

```
{
  "success": true
}
```

9 Create Actual in Batch

HubWorks support batch processing to create actuals in applications. This section explains the same.

Request Format

```
[ 1
```

```

    {2
      [
        3
        {
          4
        },
        {
          4
        }
      ]
    },
    {2
      [
        3
        {
          4
        },
        {
          4
        }
      ]
    }
  ]

```

1 – This is the start of the array of actual data.

2 – This is the hash of each store which contains data for a busiDate. There can be multiple hashes with combination of eoSiteMain and busiDate. Each hash should end by a comma except the last one, as illustrated in the example.

3 – This is array of index level data for sales and transaction.

4 – This hash contains index level data. There can be multiple indexes data. Each index hash should end with a comma except the last one.

Below is the sample of the request that needs to be sent to add the actuals data in a batch:

Sample Request

URL: <https://appServerURL/api/eoAcdMain/createInBatch>

Example:

URL: <https://app.hubworks.com/hwot/api/eoAcdMain/createInBatch>

Header Data: "apikey": "9427880e727347038af8f9e250a449c8f9fe"

Post Data:

```

[
  {
    "eoSiteMain": 24,
    "busiDate": "10/31/2015",
    "actConfNumbl": 1225.25,
    "actConfNumbl2": 300,
    "acdDetailArray":
    [
      {

```

```
        "actConfNumb1": 23.50,  
        "actConfNumb2": 6,  
        "index": 0  
    },  
    {  
        "actConfNumb1": 10,  
        "actConfNumb2": 1,  
        "index": 2  
    },  
    {  
        "actConfNumb1": 43.36,  
        "actConfNumb2": 12,  
        "index": 44  
    },  
    {  
        "actConfNumb1": 55.63,  
        "actConfNumb2": 13,  
        "index": 45  
    }  
] }  
{  
    "eoSiteMain": 24,  
    "busiDate": "11/01/2015",  
    "actConfNumb1": 2245.25,  
    "actConfNumb2": 456,  
    "acdDetailArray":  
    [  
        {  
            "actConfNumb1": 15.50,  
            "actConfNumb2": 4,  
            "index": 0  
        },  
        {  
            "actConfNumb1": 17.25,  
            "actConfNumb2": 6,  
            "index": 2  
        },  
        {  
            "actConfNumb1": 36.36,  
            "actConfNumb2": 25,  
            "index": 44  
        },  
        {  
            "actConfNumb1": 64.63,  
            "actConfNumb2": 17,  
            "index": 45  
        }  
    ]  
}
```

]

Parameters Details

Parameter	Description	Data Type	Sample Data
eoSiteMain	Site's Primary Key. This is unique identifier/reference to the site.	Long	24
busiDate	The date for which actuals need to added. It will be in double quotes and in MM/DD/YYYY format.	String	10/31/2015
actConfNumb1	Total Sales for the provided busiDate.	Double	43.36
actConfNumb2	Total number of Transactions for the provided busiDate.	Integer	12
acdDetailArray	This array will contain the actual data based on each 15 minute indexes.	Integer	
Index	Index of the day. An Index indicates 15 minutes i.e. if the index is 0 then the time is from 12:00a to 12:15a or if the index is 1 then the time is 12:15a to 12:30a. There are total 96 indices in a day i.e. from 0 to 95. The 95th index indicates 11:45p to 12:00a.	Integer	0,1,2,3...

The following table shows some key test cases and expected results. This is not a complete set of test cases. There could be more cases that are outside the scope of this document.

Parameter	Is Required	Cases	Expected Result
eoSiteMain	Yes	Present and valid data	The respective actual data hash will be processed.
		Not present	The respective actual data hash will be rejected.
		Present and Invalid Data	The respective actual data hash will be rejected.
busiDate	Yes	Present and valid data	The respective actual data hash will be rejected
		Not present	The respective actual data hash will be rejected.

		Present and Invalid Data	The respective actual data hash will be rejected.
actConfNumb1	Yes	Present and valid data	The respective actual data hash will be processed.
		Not present	The respective actual data hash will be processed with zero value.
		Present and Invalid Data	The respective actual data hash will be processed.
actConfNumb2	Yes	Present and valid data	The respective actual data hash will be processed.
		Not present	The respective actual data hash will be processed with zero value.
		Present and Invalid Data	The respective actual data hash will be processed.
acdDetailArray	Yes	Present and valid data	The respective actual data hash will be processed.
		Not present	The respective actual data hash will be rejected.
		Present and Invalid Data	The respective actual data hash is rejected.
Index	Yes	Present and valid data	The respective actual data hash is processed.
		Not present	The respective actual data hash is rejected.
		Present and Invalid Data	The respective actual data hash is rejected.

Sample Response

```

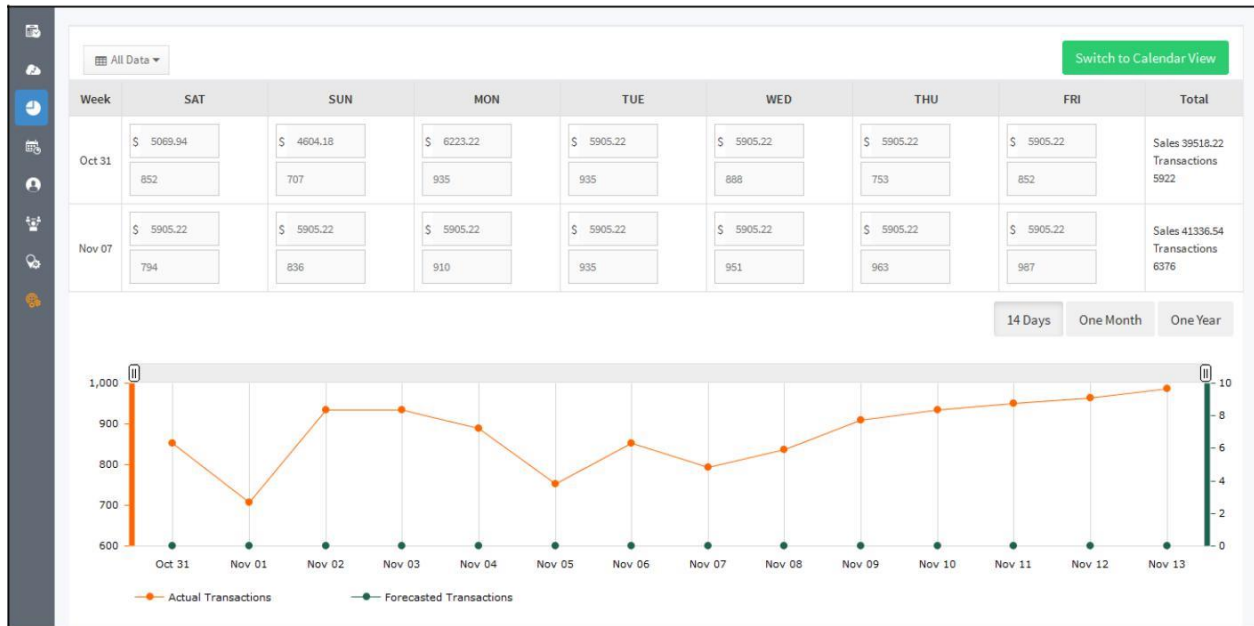
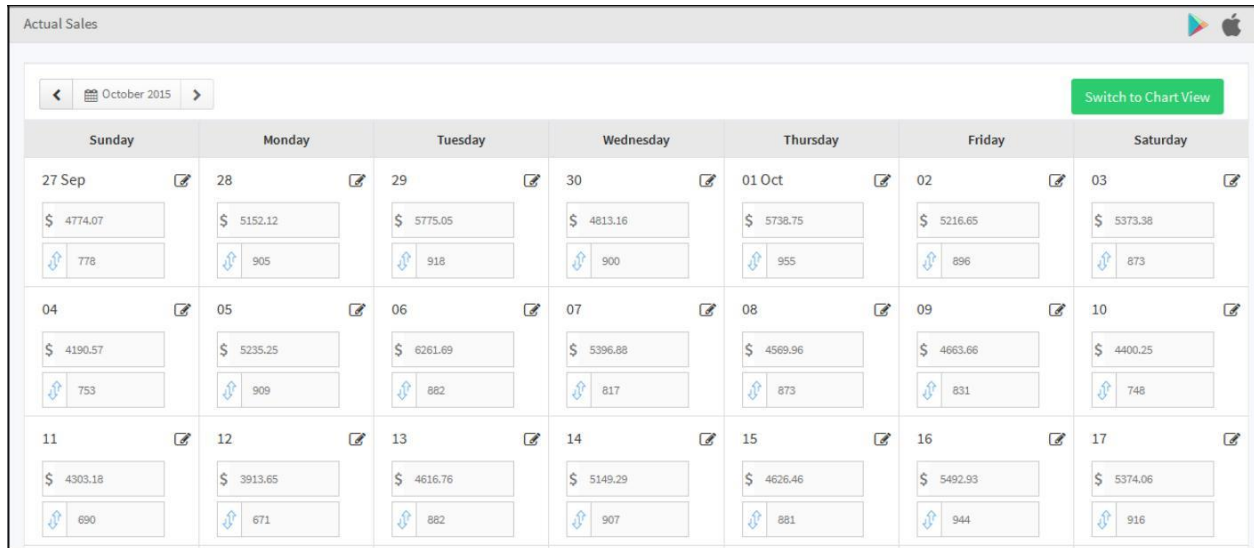
{
  "data":
  [
    {
      "success":true
    },
    {
      "errorCode":"HW008",
      "success":false
    }
  ],
  "success":true
}

```

Assumptions

- In one request maximum 31 days of data can be sent.
- The response of each request will be different and in the same order in which the request was sent. The first hash of eositeMain is 24 then first success report correspondence to the first store’s data and so on so forth.

Once the actuals are fed to the application then these values will reflect on the **Actuals** as shown below:



10 Add Employees in Batch

To add new employees in a batch, the request should be sent keeping the below points in consideration:

Format of the request

```
[
  1
  {2
    },{2
  }
]
```

1 – This is the start of the array of employees.

2 – This is the hash of each employee. There can be multiple hashes of employees. Each employee's hash should end by a comma except the last one, as illustrated in the example.

Below is the sample of the request that needs to be sent to add employees in a batch.

Sample Request

URL: <https://appServerURL/api/eoEmpMain/createInBatch>

Example:

URL: <https://app.hubworks.com/hwot/api/eoEmpMain/createInBatch>

Header Data: "apiKey": "9427880e727347038af8f9e250a449c8f9fe"

Post Data:

```
[
  {
    "eoSiteMain": 52,
    "firstName": "Mark",
    "lastName": "Johnson",
    "isMaxHrsPerWk": false,
    "payRate": 800,
    "maxHrsPerWk": 0,
    "eoEmpPositionArray":
    [
      {
        "skillLevel": 5,
        "eoLkJobPosition": 51
      },
      {
        "skillLevel": 3,
```

```
        "eoLkJobPosition": 53
      }
    ],
    "eoEmpCertificationArray":
    [
      {
        "expiryDate": "10/29/2015",
        "eoLkCertification": 50
      },
      {
        "expiryDate": "10/29/2015",
        "eoLkCertification": 52
      }
    ],
    "emailID": "mjohnson@hubworks.com",
    "eoCustJobCode": 2,
    "employeeId": 7899,
    "cellNumber": 8976879879,
    "isMinor": false
  },
  {
    "eoSiteMain": 52,
    "firstName": "Alicia",
    "lastName": "Johnson",
    "isMaxHrsPerWk": false,
    "payRate": 800,
    "maxHrsPerWk": 0,
    "eoEmpPositionArray":
    [
      {
        "skillLevel": 5,
        "eoLkJobPosition": 51
      },
      {
        "skillLevel": 3,
        "eoLkJobPosition": 53
      }
    ],
    "eoEmpCertificationArray":
    [
      {
        "expiryDate": "10/29/2015",
        "eoLkCertification": 50
      },
      {
        "expiryDate": "10/29/2015",
        "eoLkCertification": 52
      }
    ],
    "emailID": "alicia@hubworks.com",
```

```

    "eoCustJobCode": 2,
    "employeeId": 8881,
    "cellNumber": 8976879879,
    "isMinor": false
  }
]

```

Parameters Details

Parameter	Description	Data Type	Sample Data
eoSiteMain	Primary key of the Site.	Long	2
firstName	First name of the employee .It needs to be in double quotes.	String	Mark
lastName	Last name of the employee. It needs to be in double quotes.	String	Johnson
payRate	Pay Rate of the employee will be sent in multiples of 100. As per this sample the pay rate is \$8.00.	Integer	800
maxHrsPerWk	Value of maximum hour per week.	Integer	0
isMaxHrsPerWk	If ACA practice applies to the employee or not.	Boolean	true/false
emailID	Email id of the employee. It needs to be in double quotes.	String	mjohnson@Hubworks.com
eoCustJobCode	The employee's role (Manager, Supervisor, Crew).	Long	- 2 is for manager - 3 is for supervisor - 4 is for crew
isMinor	If the employee is minor or not.	Boolean	true/false
employeeId	Employee ID of the employee. This needs to be unique for every employee.	Integer	7899
eoEmpPositionArray	Array of position assigned to employee.	Integer	
skillLevel	Skill level of position.	Integer	1,2,3,4,5
eoLkJobPosition	Position assigned to the shift.	Integer	51
eoEmpCertificationArray	Array of certification assigned to employee.	Integer	
eoLkCertification	Certification assigned to the shift	Integer	50
expiryDate	Expiry date of certification. It needs to be in MM/DD/YYYY format in double quotes.	String	10/29/2015
cellNumber	Phone number of the employee	Long	8976879879

The following table shows some key test cases and expected results. This is not a complete set of test cases. There could be more cases that are outside the scope of this document.

Parameter	Is Required	Cases	Expected Result
eoSiteMain	Yes	Present and valid data	The respective employee's hash will be processed.
		Not present	The respective employee's hash will be rejected.
		Present and Invalid Data	The respective employee's hash will be rejected.
firstName	Yes	Present and valid data	The respective employee's hash will be processed.
		Not present	The respective employee's hash will be rejected.
		Present and Invalid Data i.e., not a string.	The respective employee's hash will be rejected.
lastName	Yes	Present and valid data	The respective employee's hash will be processed.
		Not present	The respective employee's hash will be rejected.
		Present and Invalid Data i.e., not a string.	The respective employee's hash will be rejected.
payRate	No	Present and valid data	The respective employee's hash will be processed.
		Not present	The respective employee's hash will be processed.
		Present and Invalid Data i.e. not an integer	The respective employee's hash will be rejected.
maxHrsPerWk	Yes	Present and valid data	The respective employee's hash will be processed.
		Not present	The respective employee's hash will be processed.
		Present and Invalid Data i.e. not an integer	The respective employee's hash will be rejected.
isMaxHrsPerWk	No	Present and valid data	The respective employee's hash will be processed.
		Not present	The respective employee's hash will be processed.
		Present and Invalid Data	The respective employee's hash will be

			rejected.
emailID	No	Present and valid data	The respective employee's hash will be processed.
		Not present	The respective employee's hash will be processed.
		Present and Invalid Data i.e incorrect format but not a string (abc@test.com)	The respective employee's hash will be rejected.
eoCustJobCode	No	Present and valid data	The respective employee's hash will be processed.
		Not present	The respective employee's hash will be processed and employee type will be set as Crew.
		Present and Invalid Data i.e. not an integer.	The respective employee's hash will be rejected.
isMinor	No	Present and valid data	The respective employee's hash will be processed.
		Not present	The respective employee's hash will be processed and employee will be set as Adult.
		Present and Invalid Data i.e not a Boolean value.	The respective employee's hash will be rejected.
employeeid	No	Present and valid data	The respective employee's hash will be processed.
		Not present	The respective employee's hash will be processed.
		Present and Invalid Data i.e., not unique	The respective employee's hash will be rejected.
eoEmpPositionA Rray	Yes	Present and valid data	The respective employee's hash will be processed.
		Not present	The respective employee's hash will be processed.
		Present and Invalid Data	The respective employee's hash will be processed but this information will be ignored.
skillLevel	Yes	Present and valid data	The respective employee's hash will be processed.
		Not present	The respective employee's hash will be processed and by default it will be set as 0.
		Present and Invalid Data	The respective employee's hash will be processed and by default it will be set as 0.
eoLkJobPosition	Yes	Present and valid data	The respective employee's hash will be

			processed.
		Not present	The respective employee's hash will be processed.
		Present and Invalid Data i.e. not an integer	The respective employee's hash will be rejected.
eoEmpCertificat ionArray	Yes	Present and valid data	The respective employee's hash will be processed.
		Not present	The respective employee's hash will be processed.
		Present and Invalid Data	The respective employee's hash will be processed but this information will be ignored.
eoLkCertificatio n	Yes	Present and valid data	The respective employee's hash will be processed.
		Not present	The respective employee's hash will be processed.
		Present and Invalid Data i.e not an integer	The respective employee's hash will be rejected
expiryDate	Yes	Present and valid data	The respective employee's hash will be processed.
		Not present	The respective employee's hash will be processed and by default the certificate will be expired.
		Present and Invalid Data	The respective employee's hash will be rejected.
cellNumber	No	Present and valid data	The respective employee's hash will be processed.
		Not present	The respective employee's hash will be processed without providing any cell number.
		Present and Invalid Data	The respective employee's hash will be processed but this information will be ignored.

Below is the sample response which will be sent for the above mentioned request:

Sample Response

```
{
  "data":
  [
    {
      "success": true
    },
    {
      "success": true
    }
  ]
}
```

```

    },
    "success": true
}

```

Parameters Details

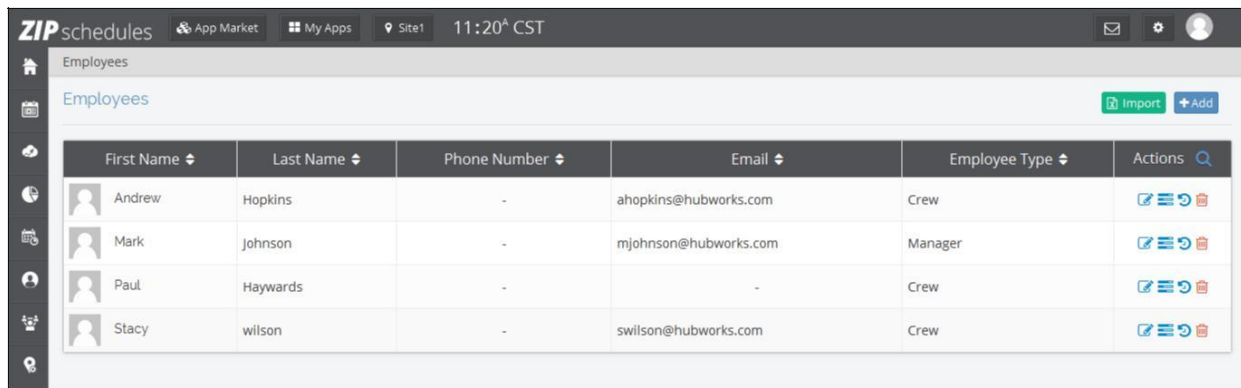
Parameter	Description	Data Type	Sample Data
Primary key	Primary key of the employee.	Long	1415
firstName	First name of the employee. It needs to be in double quotes.	String	Mark
lastName	Last name of the employee. It needs to be in double quotes.	String	Johnson
payRate	Pay Rate of the employee will be sent in multiples of 100. As per this sample the pay rate is \$8.00.	Integer	800
maxHrsPerWk	Value of maximum hour per week.	Integer	0
isMaxHrsPerWk	If ACA practice applies to the employee or not.	Boolean	true/false
emailID	Email id of the employee. It needs to be in double quotes.	String	mjohnson@hubworks.com
eoCustJobCode	The employee's role (Manager, Supervisor, Crew).	Long	<ul style="list-style-type: none"> - 1 is for Owner (It should never come in integration) - 2 is for manager - 3 is for supervisor - 4 is for crew
isMinor	If the employee is minor or not.	Boolean	true/false
employeeId	Employee ID of the employee.	Integer	7899
eoEmpPositionArray	Array of position assigned to employee	Integer	
skillLevel	Skill level of position.	Integer	5
eoLkJobPosition	Position assigned to the shift	Integer	51
eoEmpCertificationArray	Array of certification assigned to employee	Integer	
eoLkCertification	Certification assigned to the shift	Integer	50
expiryDate	Expiry date of certification. It needs to be in MM/DD/YYYY format and in double quotes.	String	10/29/2015
cellNumber	Phone number of the employee.	Long	8976879879

Note: In case when the request is sent to the application to create employee then we do not require a primary key in the request. Once the request is processed then in the response the primary key will be sent back. Hence we have included the primary key in the parameter detail table.

Assumption

- Each employee request should have one `eoSiteMain` parameter that is each request should be sent for one store at a time.
- In one request maximum XX employees can be sent.
- The response of each employee will be different and in the same order in which the request was sent. That is if the first employee is **Mark** then first success report correspondence to the first employee's record and so on so forth.

As soon as the employee is added to the application then the same employee can be seen in the employee screen as shown below:



The screenshot shows the 'Employees' screen in the ZIP Schedules application. The interface includes a top navigation bar with 'ZIP schedules', 'App Market', 'My Apps', 'Site1', and '11:20^A CST'. Below the navigation bar, there are 'Import' and 'Add' buttons. The main content is a table with the following columns: First Name, Last Name, Phone Number, Email, Employee Type, and Actions. The table contains four rows of employee data.

First Name	Last Name	Phone Number	Email	Employee Type	Actions
Andrew	Hopkins	-	ahopkins@hubworks.com	Crew	[Edit] [Refresh] [Delete]
Mark	Johnson	-	mjohnson@hubworks.com	Manager	[Edit] [Refresh] [Delete]
Paul	Haywards	-	-	Crew	[Edit] [Refresh] [Delete]
Stacy	wilson	-	swilson@hubworks.com	Crew	[Edit] [Refresh] [Delete]

11 Generic API Request

In generic API, multiple API calls can be sent in one request format. By using this API request we can perform multiple API calls in one go. Following is the generic API request:

Sample Request

URL: <https://appServerURL/api/generic>
 Example:
 URL: <https://app.hubworks.com/hwot/api/generic>
 Header Data: "apikey": "9427880e727347038af8f9e250a449c8f9fe..."
 Post Data:
 [

```

    {
      "identifierKey": "qw233",
      "apiID": "eoEmpShift/create",
    }
  ]

```

```
"data": {
  "eoSiteMain": 3,
  "startIndex": 32,
  "endIndex": 63,
  "busiDate": "12/09/2015",
  "isPosted": false,
  "breakMnts": 30,
  "eoEmpMain": 536,
  "payRate": 800
},
{
  "identifierKey": "qw234",
  "apiID": "eoEmpMain/terminate",
  "data": {
    "primaryKey": 532
  }
},
{
  "identifierKey": "qw235",
  "apiID": "eoEmpMain/create",
  "data": {
    "eoSiteMain": 3,
    "firstName": "vaseem",
    "lastName": "akhtar",
    "isMaxHrsPerWk": false,
    "payRate": 800,
    "maxHrsPerWk": 0,
    "emailID": "vak@test.com",
    "samlUserID": "vak156",
    "eoCustJobCode": "altaJobCode_5",
    "employeeId": 965,
    "cellNumber": 8976879879,
    "isMinor": false
  }
},
{
  "identifierKey": "qw236",
  "apiID": "eoAcidMain/create",
  "data": {
    "eoSiteMain": 3,
    "busiDate": "12/08/2015",
    "actConfNumb1": 1225.25,
    "actConfNumb2": 300,
    "acdDetailArray": [
      {
        "actConfNumb1": 23.5,
        "actConfNumb2": 6,
        "index": 0
      }
    ]
  }
},
```

```

        {
            "actConfNumb1": 10,
            "actConfNumb2": 1,
            "index": 2
        },
        {
            "actConfNumb1": 43.36,
            "actConfNumb2": 12,
            "index": 44
        },
        {
            "actConfNumb1": 55.63,
            "actConfNumb2": 13,
            "index": 45
        }
    ]
}
]

```

Parameter Detail

Parameter	Description	Data Type	Sample Data
identifierKey	API calls Identification Key for every request.	String	qw236
apiID	It is the ID of API request which we need to process. Basically in api id we will provide the last part URL of any API call.	String	eoAcdMain/create
data	In data section we will provide proper keys for every request.		

Below is the sample response which will be sent for the above mentioned request:

Sample Response

```

{
    "data":
    [
        {
            "success": true
        },
        {
            "success": true
        },
        {

```

```
    "success": true
  },
  {
    "success": true
  }
],
"success": true
}
```