

**DHI API Specification**

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# DHI

## DHI Overview

DHI is the practice of generating insights from sales data, trends, and metrics to set targets and forecast for current and future sales performance. It closely ties all activities to determine revenue outcomes and set objectives for the sales/marketing executives.

DHI enables marketing executives to share their queries through application UI or through WhatsApp and based on the configured data-sources, it will run the analytic model on top of that, which will return the current as well as suggested insights.

## Technologies Used

DHI is an distributed web-application and broadly categorized into different tiers :

1. User Interface
2. *Technologies Used : HTML, CSS, Bootstrap, Angular and D3.Js*
3. *Responsible capturing all user request and rendering the query response and graphs.*
4. Java Web-Services layer
5. *Technologies Used : Core Java(Java-8), Spring Boot, Spring REST, Hibernate, MySql*
6. It acts as connector between the UI and Python AI model.
7. Deals with the Business Logic, Pre and post processing of the request and response Consumes.
8. Exposed api for producing response to the UI based on the request using RESTful web-service.
9. Consumes response from the Python AI model through RESTful web-service.
10. Python AI Model
11. Technologies Used : Flask Web-service, Python.
12. Actual intelligence is being designed, to generate the insights based on the requested query.

## Database Schema

# User Authentication and Authorization

## DHI authentication and authorization process

Before gaining access to the application, user needs to get register in the application using their email-id, phone-number and password. This registration process will create an entry in the database tables (USER\_AUTH and USER\_PROFILE), where USER\_AUTH will store the user-name and password and USER\_PROFILE table will hold other information related to user like First Name, Last Name, Phone number etc.

## Registering a new User

This is can be used to register a new user, as the current implementation in DHI we don’t have any UI for registering an user, so the user need to send the request to Java web-service api using any of the REST client for registering a new user.

### Sequence Diagram for User Registration



### Sample Request and Response:



Below is the sample request and response:

Resource Url : /api/auth/register

Method Type : POST

accept : application/json

content-type : application/json

Sample Request Body :

{

"firstName": "Demo",

"middleName": "",

"lastName": "Demo",

"mobileNumber": "+91",

"password": "demo@123",

"email": "demo@brillio.com"

}

Sample Response :

{

"status": "success",

"statusCode": "200",

"description": "Account registered successfully."

}

## Listing all registered users

This api will enable the user to fetch all the registered users. It displays all the information about the user except the password. But in case any user forgets his/her password then they can make use of forgot password api to retrieve the password in their registered email.

### Sequence Diagram getting all registered users

### 

### Sample Request and Response



Below is the sample request and response:

Resource Url : /api/auth/user/list

Method Type : GET

accept : application/json

content-type : application/json

Sample Request Body : NA

Sample Response :

{"userProfileList": [

{

"userName": "akash.bais@brillio.com",

"firstname": "Akash",

"middlename": "",

"lastname": "Bais",

"phoneNumber": "+919970630663",

"profileCreatedDate": 1572934866000,

"profileModifiedDate": 1572934866000

},

{

"userName": "demo1@brillio.com",

"firstname": "Demo",

"middlename": "",

"lastname": "Demo",

"phoneNumber": "+9111",

"profileCreatedDate": 1574092781000,

"profileModifiedDate": 1574092781000

}

]

## UserName by phone number:

Below is the sample request and response:

Resource Url : /api/phone-number/user-name

Method Type : GET

accept : application/json

content-type : application/json

query-parameter : phoneNumber=+917338645544

Sample Response :

{"description": "Manmaya"}

## Forgot Password

Below is the sample request and response:

Resource Url : /api/auth/forgot/password

Method Type : POST

accept : application/json

content-type : application/json

Sample Request Body :

{

"email": "demo@brillio.com"

}

Sample Response :

{

"status": "success",

"statusCode": "200",

"description": "Password sent to the registered email-id"

}

## User login

### Sequence Diagram for User Login

### 

### Sample Request and Response



Below is the sample request and response:

Resource Url : /api/auth/login

Method Type : POST

accept : application/json

content-type : application/json

Sample Request Body :

{

"userName": "manmaya.champatiray@brillio.com",

"password": "admin@123"

}

Sample Response :

{

"status": "success",

"statusCode": "200",

"description": "Successfully validated the user",

"firstName": "Manmaya",

"lastName": "Champatiray",

"authToken": "eyJhbGciOiJIUzI1NiJ9..-Gmroj19YccMxOFWbMBbjS4AKyV\_3gzKVKQ8lFKQ\_rs",

"chatRoomId": "1574093915183"

}

# Data File Handling

## Data File Upload (Connect Tab)

This flow enables the user to upload the data files in to DHI application, for generating insights based on the data present in the uploaded files and user-query. Currently java backend web-service supports keeping multiple data files in to the DHI server file system, and user can choose a file from the available data-file(s) for generating insights.

Currently the supported file formats which the user can upload are: .csv (Comma Separated files) and .xlxs (MS-Excel files).

### API for uploading a file:

This api is for uploading the data file to the DHI application server file system. Below is the request and response:

Sample Request:

URL : {Domain-Name}/DHI/api/upload/csv

Method Type : POST

Request Attachments:

attachment: actual-file

contentId name: file

Request Header:

accept: application/json

content-type: multipart/form-data

user-name: <user-name-value>

Sample Response:

Case-1: Success Response, on successfully uploading the data file into the server.

{

"status": "success",

"description": "Successfully uploaded the files with names: [nl\_table.csv]"

}

Case-2: If attachment is missing,

{

"status-code": "dhi\_file\_upload\_error",

"status": "error",

"description": "Seems like file is not attached!!! Please check"

}

Case-3: Error Response, if user-name is missing

{

"status-code": "dhi\_missing\_required\_parameter",

"status": "error",

"description": "Missing mandatory parameter: user-name"

}

## Data file meta-data & alias :

The meta-data file is automatically created by the java backend, just after the upload of data-file, it contains following information:

1. Column Name: Represents the columns names present in the uploaded data file.
2. Data Type: It represents the type of data that the column holds.
3. AI Generated Name: This value will be populated when the AI model will suggest some alternate/user-friendly name to the actual column name, it will be system generated ‘Alias’ for that column.
4. User Defined Alias Name: The value for this column can be given by the user, and later this alias name can be used for making user query.

*;*

### API for getting meta-data information:

This api is for getting the meta-data about the uploaded data-file:

Sample Request:

URL : {Domain-Name}/ DHI/api/discovery

Method Type : GET

Query Parameter

data-file-name : <Uploaded data file name> (Not required)

Request Header:

accept : application/json

content-type : application/json

user-name : <user-name-value>

Sample Response:

Case-1: Success Response

{

"status": "success",

"discovery": [

{

"columnName": "fiscalquarteryear",

"dataType": "object",

"description": "",

"aliasName": "quarter",

"readonlyValue": true

},

{

"columnName": "fiscalmonthyear",

"dataType": "object",

"description": "",

"aliasName": "month",

"readonlyValue": true

},

{

"columnName": "calmonth",

"dataType": "object",

"description": "",

"aliasName": "",

"readonlyValue": true

}

]

}

Case-2: Error Response, if user-name is missing

{

"status-code": "dhi\_missing\_required\_parameter",

"status": "error",

"description": "Missing mandatory parameter: user-name"

}

### API for saving/updating meta-data information:

This api is used for saving the meta-data information, after the necessary edit made by the user in the configure tab.

Sample Request:

URL : {Domain-Name}/ DHI/api/discovery

Method Type : POST

Query Parameter : NA

Request Body :

{

"discovery": [

{

"columnName": "subtheatre",

"dataType": "category",

"description": "sub region of transaction",

"readonlyValue": true

},

{

"columnName": "region",

"dataType": "category",

"description": "region of transaction",

"readonlyValue": true

},

{

"columnName": "productgroup",

"dataType": "category",

"description": "product grou of region",

"alias": "prodgrp",

"readonlyValue": true

},

{

"columnName": "productlinecode",

"dataType": "category",

"description": "product linecode",

"alias": "prodlc",

"readonlyValue": true

}

]

}

Request Header:

accept : application/json

content-type : application/json

user-name : <user-name-value>

Sample Response:

Case-1 : On Success,

{

"status": "success",

"description": "Successfully updated the alias file”

}

# Auto-suggestions

## Auto-Suggestions

Autocomplete or auto-suggestion is a feature in DHI, in which the application will predicts the rest of the word or user-query, that a user is tying. In this the user can press the tab key or the mouse to accept a suggestion. Basically, in DHI the suggested keywords are of two types i.e Column names or the Alias Names or the queries previously entered by the user.

.

### API to get suggested words or queries :

By using tomcat zip Archive, we can extract the file and place in any of the drive or folder then are done with the installation.

Sample Request:

URL : {Domain-Name} /DHI/api/auto-suggestions

Method Type : POST

Query Parameter : NA

Request Body : NA

Request Header:

accept : application/json

content-type : application/json

user-name : <user-name-value>

Sample Response:

Case-1 : On Success,

{"autoSuggestionKeywords": [

"ProductGroup",

"show me region with sales less than 5000",

"show me regions with total sales less than 5000",

"Show me sales by continent",

"show me quantity by region and continent",

"show me sell by region",

"Show me sales for EMEA region",

"show me quantity by region",

"show me region with sales less than 5000 for Jan month",

"show me sales by region desc order",

"Show me sales by region",

"CalMonth",

"show me sales by region and continent",

"price",

"show me region with total sales less than 10000",

"Show me sales by Continent",

"show me unit by region desc",

"show me sales by region

]}

# Font

## Font

This feature holds all the possible font family and its name which can be displayed in the UI, by giving an option to the user for choosing appropriate font for displaying the texts of the graph.

### API to add a font name and its family :

Sample Request:

URL : {Domain-Name} /DHI/assets/fonts

Method Type : POST

Query Parameter : NA

Request Body :

[

{

"family": "Times New Roman",

"category": "Times New Roman"

},

{

"family": "Verdana",

"category": "Verdana"

},

{

"family": "Roboto",

"category": "Roboto"

}

]

Request Header:

accept : application/json

content-type : application/json

user-name : <user-name-value>

Sample Response:

Case-1 : On Success,

{

"status": "success",

"description": "Successfully saved the fonts "

}

### API to get all available fonts :

Sample Request:

URL : {Domain-Name} /DHI/assets/fonts

Method Type : GET

Query Parameter : NA

Request Body : NA

Request Header:

accept : application/json

content-type : application/json

Sample Response:

Case-1 : On Success,

[

{

"category": "Times New Roman",

"family": "Times New Roman"

},

{

"category": "Verdana",

"family": "Verdana"

},

{

"category": "Roboto",

"family": "Roboto"

}

]

### API to delete a font name and its family :

Sample Request:

URL : {Domain-Name} /DHI/assets/fonts

Method Type : DELETE

Query Parameter : NA

Request Body :

{

"category":"Times New Roman",

"family":"Times New Roman"

}

Request Header:

accept : application/json

content-type : application/json

user-name : <user-name-value>

Sample Response:

Case-1 : On Success,

{

"status": "success",

"description": "Successfully deleted the fonts "

}

# Stories

## Stories

### API to save a story :

Sample Request:

URL : {Domain-Name} /DHI/api/stories

Method Type : POST

Query Parameter : NA

Request Body :

{

"storyTitle": "testName50",

"storyItem": [{

"title": "title-1",

"order": "1",

"serverTextMessage": "",

"serverImageMessage": "http://ipsolution.southindia.cloudapp.azure.com:8080/DHI/assets/test\_user\_bar\_chart\_hz\_2019\_07\_11\_02\_33\_03",

"userQueryMessage":"show me sales by region",

"tabularData": {

"columNames": [

"sum(bookingamt)",

"region"

],

"row": [{

"rowNumber": "1",

"columnValues": [{

"columnName": "sum(bookingamt)",

"columnValue": "3364.8699999999994"

},

{

"columnName": "region",

"columnValue": "Brazil"

}

]

},

{

"rowNumber": "2",

"columnValues": [{

"columnName": "sum(bookingamt)",

"columnValue": "-3103.560000000001"

},

{

"columnName": "region",

"columnValue": "CEEMA"

}

]

},

{

"rowNumber": "3",

"columnValues": [{

"columnName": "sum(bookingamt)",

"columnValue": "5528.360000000001"

},

{

"columnName": "region",

"columnValue": "Canada"

}

]

},

{

"rowNumber": "4",

"columnValues": [{

"columnName": "sum(bookingamt)",

"columnValue": "3778.2200000000003"

},

{

"columnName": "region",

"columnValue": "China"

}

]

},

{

"rowNumber": "5",

"columnValues": [{

"columnName": "sum(bookingamt)",

"columnValue": "12545.090000000002"

},

{

"columnName": "region",

"columnValue": "Cross Geo (Philip)"

}

]

},

{

"rowNumber": "6",

"columnValues": [{

"columnName": "sum(bookingamt)",

"columnValue": "3269.1800000000003"

},

{

"columnName": "region",

"columnValue": "DACH&Russia"

}

]

},

{

"rowNumber": "7",

"columnValues": [{

"columnName": "sum(bookingamt)",

"columnValue": "3557.24"

},

{

"columnName": "region",

"columnValue": "France"

}

]

},

{

"rowNumber": "8",

"columnValues": [{

"columnName": "sum(bookingamt)",

"columnValue": "8021.320000000001"

},

{

"columnName": "region",

"columnValue": "HSE"

}

]

},

{

"rowNumber": "9",

"columnValues": [{

"columnName": "sum(bookingamt)",

"columnValue": "8738.320000000003"

},

{

"columnName": "region",

"columnValue": "Hong Kong/Macau"

}

]

},

{

"rowNumber": "10",

"columnValues": [{

"columnName": "sum(bookingamt)",

"columnValue": "3388.34"

},

{

"columnName": "region",

"columnValue": "India"

}

]

},

{

"rowNumber": "11",

"columnValues": [{

"columnName": "sum(bookingamt)",

"columnValue": "-87.59000000000103"

},

{

"columnName": "region",

"columnValue": "Japan"

}

]

},

{

"rowNumber": "12",

"columnValues": [{

"columnName": "sum(bookingamt)",

"columnValue": "4351.42"

},

{

"columnName": "region",

"columnValue": "Korea"

}

]

},

{

"rowNumber": "13",

"columnValues": [{

"columnName": "sum(bookingamt)",

"columnValue": "2489.0"

},

{

"columnName": "region",

"columnValue": "MCA"

}

]

},

{

"rowNumber": "14",

"columnValues": [{

"columnName": "sum(bookingamt)",

"columnValue": "1250.3399999999997"

},

{

"columnName": "region",

"columnValue": "Mexico"

}

]

},

{

"rowNumber": "15",

"columnValues": [{

"columnName": "sum(bookingamt)",

"columnValue": "3677.4699999999993"

},

{

"columnName": "region",

"columnValue": "NOE"

}

]

},

{

"rowNumber": "16",

"columnValues": [{

"columnName": "sum(bookingamt)",

"columnValue": "8759.600000000002"

},

{

"columnName": "region",

"columnValue": "SEA & Taiwan"

}

]

},

{

"rowNumber": "17",

"columnValues": [{

"columnName": "sum(bookingamt)",

"columnValue": "628.7599999999992"

},

{

"columnName": "region",

"columnValue": "SOE"

}

]

},

{

"rowNumber": "18",

"columnValues": [{

"columnName": "sum(bookingamt)",

"columnValue": "2562.9100000000008"

},

{

"columnName": "region",

"columnValue": "South Pacific"

}

]

},

{

"rowNumber": "19",

"columnValues": [{

"columnName": "sum(bookingamt)",

"columnValue": "-5142.219999999999"

},

{

"columnName": "region",

"columnValue": "U.S. Central"

}

]

},

{

"rowNumber": "20",

"columnValues": [{

"columnName": "sum(bookingamt)",

"columnValue": "5637.48"

},

{

"columnName": "region",

"columnValue": "U.S. East"

}

]

},

{

"rowNumber": "21",

"columnValues": [{

"columnName": "sum(bookingamt)",

"columnValue": "4092.0499999999997"

},

{

"columnName": "region",

"columnValue": "U.S. Federal"

}

]

},

{

"rowNumber": "22",

"columnValues": [{

"columnName": "sum(bookingamt)",

"columnValue": "5557.930000000001"

},

{

"columnName": "region",

"columnValue": "U.S. West"

}

]

},

{

"rowNumber": "23",

"columnValues": [{

"columnName": "sum(bookingamt)",

"columnValue": "3585.27"

},

{

"columnName": "region",

"columnValue": "UK&I"

}

]

},

{

"rowNumber": "24",

"columnValues": [{

"columnName": "sum(bookingamt)",

"columnValue": "3812.21"

},

{

"columnName": "region",

"columnValue": "US-HSE"

}

]

}

]

}

}]

}

Request Header:

accept : application/json

content-type : application/json

user-name : <user-name-value>

Sample Response:

Case-1 : On Success,

{

"status": "Success",

"description": "Successfully saved the stories"

}

Case-2 : On failure,

{

"status": "error",

"statusCode": "dhi\_missing\_required\_parameter",

"description": "Missing mandatory parameter : storyName"

}

### API to get all stories :

Sample Request:

URL : {Domain-Name}/ DHI/api/stories

Method Type : GET

Query Parameter : NA

Request Header:

accept : application/json

content-type : application/json

user-name : <user-name-value>

{"stories": [{

"storyTitle": "testName50",

"timestamp": 1562815495282,

"storyItem": [ {

"title": "title-1",

"order": 1,

"serverTextMessage": "",

"serverImageMessage": "http://ipsolution.southindia.cloudapp.azure.com:8080/DHI/assets/test\_user\_bar\_chart\_hz\_2019\_07\_11\_02\_33\_03",

"tabularData": {

"columNames": [

"sum(bookingamt)",

"region"

],

"row": [

{

"rowNumber": "1",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "3364.8699999999994"

},

{

"columnName": "region",

"columnValue": "Brazil"

}

]

},

{

"rowNumber": "2",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "-3103.560000000001"

},

{

"columnName": "region",

"columnValue": "CEEMA"

}

]

},

{

"rowNumber": "3",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "5528.360000000001"

},

{

"columnName": "region",

"columnValue": "Canada"

}

]

},

{

"rowNumber": "4",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "3778.2200000000003"

},

{

"columnName": "region",

"columnValue": "China"

}

]

},

{

"rowNumber": "5",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "12545.090000000002"

},

{

"columnName": "region",

"columnValue": "Cross Geo (Philip)"

}

]

},

{

"rowNumber": "6",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "3269.1800000000003"

},

{

"columnName": "region",

"columnValue": "DACH&Russia"

}

]

},

{

"rowNumber": "7",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "3557.24"

},

{

"columnName": "region",

"columnValue": "France"

}

]

},

{

"rowNumber": "8",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "8021.320000000001"

},

{

"columnName": "region",

"columnValue": "HSE"

}

]

},

{

"rowNumber": "9",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "8738.320000000003"

},

{

"columnName": "region",

"columnValue": "Hong Kong/Macau"

}

]

},

{

"rowNumber": "10",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "3388.34"

},

{

"columnName": "region",

"columnValue": "India"

}

]

},

{

"rowNumber": "11",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "-87.59000000000103"

},

{

"columnName": "region",

"columnValue": "Japan"

}

]

},

{

"rowNumber": "12",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "4351.42"

},

{

"columnName": "region",

"columnValue": "Korea"

}

]

},

{

"rowNumber": "13",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "2489.0"

},

{

"columnName": "region",

"columnValue": "MCA"

}

]

},

{

"rowNumber": "14",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "1250.3399999999997"

},

{

"columnName": "region",

"columnValue": "Mexico"

}

]

},

{

"rowNumber": "15",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "3677.4699999999993"

},

{

"columnName": "region",

"columnValue": "NOE"

}

]

},

{

"rowNumber": "16",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "8759.600000000002"

},

{

"columnName": "region",

"columnValue": "SEA & Taiwan"

}

]

},

{

"rowNumber": "17",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "628.7599999999992"

},

{

"columnName": "region",

"columnValue": "SOE"

}

]

},

{

"rowNumber": "18",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "2562.9100000000008"

},

{

"columnName": "region",

"columnValue": "South Pacific"

}

]

},

{

"rowNumber": "19",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "-5142.219999999999"

},

{

"columnName": "region",

"columnValue": "U.S. Central"

}

]

},

{

"rowNumber": "20",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "5637.48"

},

{

"columnName": "region",

"columnValue": "U.S. East"

}

]

},

{

"rowNumber": "21",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "4092.0499999999997"

},

{

"columnName": "region",

"columnValue": "U.S. Federal"

}

]

},

{

"rowNumber": "22",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "5557.930000000001"

},

{

"columnName": "region",

"columnValue": "U.S. West"

}

]

},

{

"rowNumber": "23",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "3585.27"

},

{

"columnName": "region",

"columnValue": "UK&I"

}

]

},

{

"rowNumber": "24",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "3812.21"

},

{

"columnName": "region",

"columnValue": "US-HSE"

}

]

}

]

},

"flip": "inactive",

"userQueryMessage": "show me sales by region"

}]

}]}

### API to delete a story by its name :

Sample Request:

URL : {Domain-Name}/ DHI/api/stories

Method Type : GET

Query Parameter : NA

Request Header:

accept : application/json

content-type : application/json

user-name : <user-name-value>

Sample Response :

{

"status": "Success",

"description": "Successfully deleted the story with story-name : testName50.json"

}

### API to refresh story by name :

Sample Request:

URL : {Domain-Name}/DHI/api/stories/refresh/{story-name}

Method Type : GET

Query Parameter : NA

Path Parameter : story-name : <testStoryForRefresh>

Request Header:

accept : application/json

content-type : application/json

Sample Response :

{"stories": [{

"storyTitle": "testStoryForRefresh",

"timestamp": 1562839435761,

"storyItem": [ {

"serverImageMessage": "http://ipsolution.southindia.cloudapp.azure.com:8080/DHI/assets/test\_user\_bar\_chart\_hz\_2019\_07\_11\_16\_08\_33",

"tabularData": {

"columNames": [

"sum(bookingamt)",

"region"

],

"row": [

{

"rowNumber": "1",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "3364.8699999999994"

},

{

"columnName": "region",

"columnValue": "Brazil"

}

]

},

{

"rowNumber": "2",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "-3103.560000000001"

},

{

"columnName": "region",

"columnValue": "CEEMA"

}

]

},

{

"rowNumber": "3",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "5528.360000000001"

},

{

"columnName": "region",

"columnValue": "Canada"

}

]

},

{

"rowNumber": "4",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "3778.2200000000003"

},

{

"columnName": "region",

"columnValue": "China"

}

]

},

{

"rowNumber": "5",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "12545.090000000002"

},

{

"columnName": "region",

"columnValue": "Cross Geo (Philip)"

}

]

},

{

"rowNumber": "6",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "3269.1800000000003"

},

{

"columnName": "region",

"columnValue": "DACH&Russia"

}

]

},

{

"rowNumber": "7",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "3557.24"

},

{

"columnName": "region",

"columnValue": "France"

}

]

},

{

"rowNumber": "8",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "8021.320000000001"

},

{

"columnName": "region",

"columnValue": "HSE"

}

]

},

{

"rowNumber": "9",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "8738.320000000003"

},

{

"columnName": "region",

"columnValue": "Hong Kong/Macau"

}

]

},

{

"rowNumber": "10",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "3388.34"

},

{

"columnName": "region",

"columnValue": "India"

}

]

},

{

"rowNumber": "11",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "-87.59000000000103"

},

{

"columnName": "region",

"columnValue": "Japan"

}

]

},

{

"rowNumber": "12",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "4351.42"

},

{

"columnName": "region",

"columnValue": "Korea"

}

]

},

{

"rowNumber": "13",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "2489.0"

},

{

"columnName": "region",

"columnValue": "MCA"

}

]

},

{

"rowNumber": "14",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "1250.3399999999997"

},

{

"columnName": "region",

"columnValue": "Mexico"

}

]

},

{

"rowNumber": "15",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "3677.4699999999993"

},

{

"columnName": "region",

"columnValue": "NOE"

}

]

},

{

"rowNumber": "16",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "8759.600000000002"

},

{

"columnName": "region",

"columnValue": "SEA & Taiwan"

}

]

},

{

"rowNumber": "17",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "628.7599999999992"

},

{

"columnName": "region",

"columnValue": "SOE"

}

]

},

{

"rowNumber": "18",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "2562.9100000000008"

},

{

"columnName": "region",

"columnValue": "South Pacific"

}

]

},

{

"rowNumber": "19",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "-5142.219999999999"

},

{

"columnName": "region",

"columnValue": "U.S. Central"

}

]

},

{

"rowNumber": "20",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "5637.48"

},

{

"columnName": "region",

"columnValue": "U.S. East"

}

]

},

{

"rowNumber": "21",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "4092.0499999999997"

},

{

"columnName": "region",

"columnValue": "U.S. Federal"

}

]

},

{

"rowNumber": "22",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "5557.930000000001"

},

{

"columnName": "region",

"columnValue": "U.S. West"

}

]

},

{

"rowNumber": "23",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "3585.27"

},

{

"columnName": "region",

"columnValue": "UK&I"

}

]

},

{

"rowNumber": "24",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "3812.21"

},

{

"columnName": "region",

"columnValue": "US-HSE"

}

]

}

]

},

"flip": "inactive",

"userQueryMessage": "show me sales by region",

"imageUrl": "C:/dhi\_intelligence/AI/viz\\test\_user\_bar\_chart\_hz\_2019\_07\_11\_16\_08\_33.png"

}]

}]}

### API to refresh story items :

Sample Request:

URL : {Domain-Name} /DHI/api/stories/refresh/{story-name}/{story-item-id}

Method Type : GET

Query Parameter : NA

Path Parameter :

story-name : <testStoryForRefresh>

story-item-id : <storyItemId Value>

Request Header:

accept : application/json

content-type : application/json

Sample Response :

{"stories": [{

"storyTitle": "testStoryForRefresh",

"timestamp": 1562839435761,

"storyItem": [ {

"serverImageMessage": "http://ipsolution.southindia.cloudapp.azure.com:8080/DHI/assets/test\_user\_bar\_chart\_hz\_2019\_07\_11\_16\_08\_33",

"tabularData": {

"columNames": [

"sum(bookingamt)",

"region"

],

"row": [

{

"rowNumber": "1",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "3364.8699999999994"

},

{

"columnName": "region",

"columnValue": "Brazil"

}

]

},

{

"rowNumber": "2",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "-3103.560000000001"

},

{

"columnName": "region",

"columnValue": "CEEMA"

}

]

},

{

"rowNumber": "3",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "5528.360000000001"

},

{

"columnName": "region",

"columnValue": "Canada"

}

]

},

{

"rowNumber": "4",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "3778.2200000000003"

},

{

"columnName": "region",

"columnValue": "China"

}

]

},

{

"rowNumber": "5",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "12545.090000000002"

},

{

"columnName": "region",

"columnValue": "Cross Geo (Philip)"

}

]

},

{

"rowNumber": "6",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "3269.1800000000003"

},

{

"columnName": "region",

"columnValue": "DACH&Russia"

}

]

},

{

"rowNumber": "7",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "3557.24"

},

{

"columnName": "region",

"columnValue": "France"

}

]

},

{

"rowNumber": "8",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "8021.320000000001"

},

{

"columnName": "region",

"columnValue": "HSE"

}

]

},

{

"rowNumber": "9",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "8738.320000000003"

},

{

"columnName": "region",

"columnValue": "Hong Kong/Macau"

}

]

},

{

"rowNumber": "10",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "3388.34"

},

{

"columnName": "region",

"columnValue": "India"

}

]

},

{

"rowNumber": "11",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "-87.59000000000103"

},

{

"columnName": "region",

"columnValue": "Japan"

}

]

},

{

"rowNumber": "12",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "4351.42"

},

{

"columnName": "region",

"columnValue": "Korea"

}

]

},

{

"rowNumber": "13",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "2489.0"

},

{

"columnName": "region",

"columnValue": "MCA"

}

]

},

{

"rowNumber": "14",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "1250.3399999999997"

},

{

"columnName": "region",

"columnValue": "Mexico"

}

]

},

{

"rowNumber": "15",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "3677.4699999999993"

},

{

"columnName": "region",

"columnValue": "NOE"

}

]

},

{

"rowNumber": "16",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "8759.600000000002"

},

{

"columnName": "region",

"columnValue": "SEA & Taiwan"

}

]

},

{

"rowNumber": "17",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "628.7599999999992"

},

{

"columnName": "region",

"columnValue": "SOE"

}

]

},

{

"rowNumber": "18",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "2562.9100000000008"

},

{

"columnName": "region",

"columnValue": "South Pacific"

}

]

},

{

"rowNumber": "19",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "-5142.219999999999"

},

{

"columnName": "region",

"columnValue": "U.S. Central"

}

]

},

{

"rowNumber": "20",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "5637.48"

},

{

"columnName": "region",

"columnValue": "U.S. East"

}

]

},

{

"rowNumber": "21",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "4092.0499999999997"

},

{

"columnName": "region",

"columnValue": "U.S. Federal"

}

]

},

{

"rowNumber": "22",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "5557.930000000001"

},

{

"columnName": "region",

"columnValue": "U.S. West"

}

]

},

{

"rowNumber": "23",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "3585.27"

},

{

"columnName": "region",

"columnValue": "UK&I"

}

]

},

{

"rowNumber": "24",

"columnValues": [

{

"columnName": "sum(bookingamt)",

"columnValue": "3812.21"

},

{

"columnName": "region",

"columnValue": "US-HSE"

}

]

}

]

},

"flip": "inactive",

"userQueryMessage": "show me sales by region",

"imageUrl": "C:/dhi\_intelligence/AI/viz\\test\_user\_bar\_chart\_hz\_2019\_07\_11\_16\_08\_33.png"

}]

}]}