**TEAM PROJECT**

**UBER API Document**

**Department of Computer Engineering**

**San José State University**

**CMPE 273: Enterprise Distributed Systems**

**TEAM - 10**

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**1.** **Request**

**Description - REST API for creating a new user**

|  |  |  |
| --- | --- | --- |
| **Name** | **Method** | **Description** |
| /api/user/createUser | POST | Creates a new user as per required details |

### **Sample Request:**

|  |
| --- |
| http://localhost:8085/api/user/createUser |

### **Locale Parameters**

The following list displays the parameter required by the API. Results will be a JSON object specifying the response send by server.

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data Type** | **Required/Optional** | **Description** |
| First\_Name | String | Required | First name of the user |
| Last\_Name | String | Required | Last name of the user |
| Address | String | Required | Address of the user |
| City | String | Required | City of user |
| State | String | Required | State of the user |
| Zipcode | String | Required | Zipcode |
| Phone\_Number | String | Required | Phone number of the user |
| Email | String | Required | Email of the user |
| Password | String | Required | Password Of the user |
| Gender | String | Required | Gender of the user |
| Credit\_Card | String | Required | Credit Card of the user |

## **Response Value:**

**{**

**“Code”: 200**

**“Value”: [**

**Result: “user created successfully”,**

**Error: false,**

**Message: “”**

**]**

**}**

**2.** **Request**

**Description - REST API for deleting an existing user.**

|  |  |  |
| --- | --- | --- |
| **Name** | **Method** | **Description** |
| /api/user/deleteUser | POST | Delete user information from the database based on user id. |

### **Sample Request:**

|  |
| --- |
| http://localhost:8085/api/user/deleteUser |

### **Locale Parameters**

The following list displays the parameter required by the API. Results will be a JSON object specifying the response send by server.

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data Type** | **Required/Optional** | **Description** |
| userid | String | Required | user id is a unique id assigned to every user. For deleting a particular user from database, user id should be used as parameter. |

## **Response Value:**

**{**

**“Code”: 200**

**“Value”: [**

**Result: “user deleted successfully”,**

**Error: false,**

**Message: “”**

**]**

**}**

**3.** **Request**

**Description - REST API for updating an existing user.**

|  |  |  |
| --- | --- | --- |
| **Name** | **Method** | **Description** |
| /api/user/updateUser | POST | Updating an existing user information based on user id. |

### **Sample Request:**

|  |
| --- |
| http://localhost:8085/api/user/updateUser |

### **Locale Parameters**

The following list displays the parameter required by the API. Results will be a JSON object specifying the response send by server.

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data Type** | **Required/Optional** | **Description** |
| userid | String | Required | user id is a unique id assigned to every user. For updating a particular user, user id should be used as parameter. |
| First\_Name | String | Required | First name of the user |
| Last\_Name | String | Required | Last name of the user |
| Address | String | Required | Address of the user |
| City | String | Required | City of user |
| State | String | Required | State of the user |
| Zipcode | String | Required | Zipcode |
| Phone\_Number | String | Required | Phone number of the user |
| Email | String | Required | Email of the user |
| Password | String | Required | Password Of the user |
| Gender | String | Required | Gender of the user |
| Credit\_Card | String | Required | Credit Card of the user |

## **Response Value:**

**{**

**“Code”: 200**

**“Value”: [**

**Result: “user updated successfully”,**

**Error: false,**

**Message: “”**

**]**

**}**

**4.** **Request**

**Description - REST API for requesting ride.**

|  |  |  |
| --- | --- | --- |
| **Name** | **Method** | **Description** |
| /api/user/requestRide | POST | Requesting a ride for a user. |

### **Sample Request:**

|  |
| --- |
| http://localhost:8085/api/user/requestRide |

### **Locale Parameters**

The following list displays the parameter required by the API. Results will be a JSON object specifying the response send by server.

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data Type** | **Required/Optional** | **Description** |
| userid | String | Required | user id is a unique id assigned to every user. For requesting a ride, user id should be used. |
| Start\_location | String | Required | Current Location |
| End\_location | String | Required | End Location |

## **Response Value:**

**{**

**“Code”: 200**

**“Value”: [**

**Result: “Ride Requested Scanning nearby Driver.”,**

**Error: false,**

**Message: “”**

**]**

**}**

**5.** **Request**

**Description - REST API for getting list of all drivers in 10 mile radius.**

|  |  |  |
| --- | --- | --- |
| **Name** | **Method** | **Description** |
| /api/user/getNearbyDrivers | GET | Retrieves information from the database  for all drivers in 10 mile radius |

### **Sample Request:**

|  |
| --- |
| <http://localhost:8085/api/user/getNearbyDrivers> |

### **Locale Parameters**

The following list displays the parameter required by the API. Results will be a JSON object specifying the response send by server.

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data Type** | **Required/Optional** | **Description** |
| userid | String | Required | user id is a unique id assigned to every user. For requesting a ride user id should be used. |
| current\_location | String | Required | Current Location is given to identify location and send all drivers in 10 mile radius |

## **Response Value:**

**{**

**“Code”: 200**

**“Value”: [**

**Result: {**

**fields of drivers displayed**

First\_Name

Last\_Name

Car\_model

Car\_number

Driver\_adv

Image

**},**

**{**

**fields of drivers displayed**

First\_Name

Last\_Name

Car\_model

Car\_number

Driver\_adv

Image

**},**

**{**

**fields of drivers displayed**

First\_Name

Last\_Name

Car\_model

Car\_number

Driver\_adv

Image

**},**

**Error: false,**

**Message: “”**

**]**

**}**

**6.** **Request**

**Description - REST API for selecting driver**

|  |  |  |
| --- | --- | --- |
| **Name** | **Method** | **Description** |
| /api/user/selectDriver | POST | Select driver which user want to have a ride with. |

### **Sample Request:**

|  |
| --- |
| [http://localhost:8085/api/user/](http://localhost:8085/api/user/list)selectDriver |

### **Locale Parameters**

The following list displays the parameter required by the API. Results will be a JSON object specifying the response send by server.

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data Type** | **Required/Optional** | **Description** |
| userid | String | Required | user id is a unique id assigned to every user. For requesting a ride user id should be used. |
| driverid | String | Required | driver id is a unique id assigned to every driver. For notifying which driver user selected. |
| rideid | String | Required | The ride id that was generated when the user requested the ride |

## **Response Value:**

**{**

**“Code”: 200**

**“Value”: [**

**Result: “driver selected successfully”,**

**Error: false,**

**Message: “”**

**]**

**}**

**7.** **Request**

**Description - REST API for giving driver rating.**

|  |  |  |
| --- | --- | --- |
| **Name** | **Method** | **Description** |
| /api/user/selectDriver/giveRating | POST | Facilitates user to rate a driver |

### **Sample Request:**

|  |
| --- |
| [http://localhost:8085/api/user/](http://localhost:8085/api/user/list)selectDriver/giveRating |

### **Locale Parameters**

The following list displays the parameter required by the API. Results will be a JSON object specifying the response send by server.

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data Type** | **Required/Optional** | **Description** |
| userid | String | Required | user id is a unique id assigned to every user. For rating a driver post a ride user id should be used. |
| driver\_id | String | Required | driver id is a unique id assigned to every driver. This is the id of the driver the user is rating |
| driver\_rating | Number | Required | driver rating is a rating from which users get to know about previous user experiences with a driver. |
| ride\_id | String | Required | Every user rates a driver only after he completes a ride with the driver and the rating is based on the ride experience. This is required to know the driver is rated against which ride |

## **Response Value:**

**{**

**“Code”: 200**

**“Value”: [**

**Result: “driver successfully rated.”,**

**Error: false,**

**Message: “”**

**]**

**}**

**8.** **Request**

**Description - REST API for generating bill**

|  |  |  |
| --- | --- | --- |
| **Name** | **Method** | **Description** |
| /api/user/generateBill | POST | Generate Bill |

### **Sample Request:**

|  |
| --- |
| [http://localhost:8085/api/user/](http://localhost:8085/api/user/list)generateBill |

### **Locale Parameters**

The following list displays the parameter required by the API. Results will be a JSON object specifying the response send by server.

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data Type** | **Required/Optional** | **Description** |
| userid | String | Required | user id is a unique id assigned to every user. For requesting a ride user id should be used. |
| driverid | String | Required | driver id is a unique id assigned to every driver.For notifying which driver user selected. |
| rideid | String | Required | The ride id for which the bill is to be generated |
| Start\_location | String | Required | Current Location |
| End\_location | String | Required | End Location |
| Start\_time | String | Required | Start Time of ride. |
| End\_time | String | Required | End time of ride. |
| Distance\_travelled | Number | Required | Total distance covered during the ride |

## **Response Value:**

**{**

**“Code”: 200**

**“Value”: [**

**Result: “”,**

**Error: false,**

**Message: “”**

**]**

**}**

**9.** **Request**

**Description - REST API for showing previous rides.**

|  |  |  |
| --- | --- | --- |
| **Name** | **Method** | **Description** |
| /api/user/previousRides | POST | Show Previous rides by user. |

### **Sample Request:**

|  |
| --- |
| [http://localhost:8085/api/user/](http://localhost:8085/api/user/list)previousRides |

### **Locale Parameters**

The following list displays the parameter required by the API. Results will be a JSON object specifying the response send by server.

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data Type** | **Required/Optional** | **Description** |
| userid | String | Required | user id is a unique id assigned to every user. For requesting a ride user id should be used. |

## **Response Value:**

**{**

**“Code”: 200**

**“Value”: [**

**Result: {**

driver details

Start\_location

End\_location

Start\_time

End\_time

Amount

Distance

**},**

**{**

**fields of rides displayed**

**},**

**{**

**fields of rides displayed**

**},**

**Error: false,**

**Message: “”**

**]**

**}**

DRIVER API-

**1.** **Request**

**Description - REST API for creating a new driver**

|  |  |  |
| --- | --- | --- |
| **Name** | **Method** | **Description** |
| /api/driver/createDriver | POST | Creates a new driver as per required details |

### **Sample Request:**

|  |
| --- |
| http://localhost:8085/api/driver/createDriver |

### **Locale Parameters**

The following list displays the parameter required by the API. Results will be a JSON object specifying the response send by server.

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data Type** | **Required/Optional** | **Description** |
| First\_Name | String | Required | First name of the driver |
| Last\_Name | String | Required | Last name of the driver |
| Address | String | Required | Address of the driver |
| City | String | Required | City of driver |
| State | String | Required | State of the driver |
| Zipcode | String | Required | Zipcode |
| Phone\_Number | String | Required | Phone number of the driver |
| Email | String | Required | Email of the driver |
| Car\_model | String | Required | Car Model |
| Car\_number | String | Required | Car number |
| Driver\_adv | String | Required | Driver Adv |
| Image | String | Required | Driver image |
| Password | String | Required | Driver’s Password |
| Gender | String | Required | Driver’s gender |

## **Response Value:**

**{**

**“Code”: 200**

**“Value”: [**

**Result: “driver created successfully”,**

**Error: false,**

**Message: “”**

**]**

**}**

**2.** **Request**

**Description - REST API for deleting an existing driver.**

|  |  |  |
| --- | --- | --- |
| **Name** | **Method** | **Description** |
| /api/driver/deleteDriver | POST | Delete driver information from the database based on driver id. |

### **Sample Request:**

|  |
| --- |
| http://localhost:8085/api/driver/deleteDriver |

### **Locale Parameters**

The following list displays the parameter required by the API. Results will be a JSON object specifying the response send by server.

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data Type** | **Required/Optional** | **Description** |
| driverid | String | Required | driver id is a unique id assigned to every driver. For deleting a particular driver from database, driver id should be used as parameter. |

## **Response Value:**

**{**

**“Code”: 200**

**“Value”: [**

**Result: “driver deleted successfully”,**

**Error: false,**

**Message: “”**

**]**

**}**

**3.** **Request**

**Description - REST API for updating an existing driver.**

|  |  |  |
| --- | --- | --- |
| **Name** | **Method** | **Description** |
| /api/driver/updateDriver | POST | Updating an existing driver information based on driver id. |

### **Sample Request:**

|  |
| --- |
| http://localhost:8085/api/driver/updateDriver |

### **Locale Parameters**

The following list displays the parameter required by the API. Results will be a JSON object specifying the response send by server.

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data Type** | **Required/Optional** | **Description** |
| driverid | String | Required | driver id is a unique id assigned to every driver. For updating a particular driver, driver id should be used as parameter. |
| First\_Name | String | Required | First name of the driver |
| Last\_Name | String | Required | Last name of the driver |
| Address | String | Required | Address of the driver |
| City | String | Required | City of driver |
| State | String | Required | State of the driver |
| Zipcode | String | Required | Zipcode |
| Phone\_Number | String | Required | Phone number of the driver |
| Email | String | Required | Email of the driver |
| Car\_model | String | Required | Car Model |
| Car\_number | String | Required | Car number |
| Driver\_adv | String | Required | Driver Advertisement |
| Image | String | Required | Driver image |
| Password | String | Required | Driver’s Password |
| Gender | String | Required | Driver gender |

## **Response Value:**

**{**

**“Code”: 200**

**“Value”: [**

**Result: “driver updated successfully”,**

**Error: false,**

**Message: “”**

**]**

**}**

**4.** **Request**

**Description - REST API for giving user rating.**

|  |  |  |
| --- | --- | --- |
| **Name** | **Method** | **Description** |
| /api/driver/selectuser/giveRating | POST | Driver rates a user post ride |

### **Sample Request:**

|  |
| --- |
| [http://localhost:8085/api/driver/](http://localhost:8085/api/user/list)selectuser/giveRating |

### **Locale Parameters**

The following list displays the parameter required by the API. Results will be a JSON object specifying the response send by server.

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data Type** | **Required/Optional** | **Description** |
| userid | String | Required | user id is a unique id assigned to every user. |
| driver\_id | String | Required | driver id is a unique id assigned to every driver. |
| user\_rating | Number | Required | user rating is a rating from which drivers get to know about previous drivers experiences with a user. |
| ride\_id | String | Required | Every driver rates a user only after he completes a ride with the user and the rating is based on the ride experience. This is required to know the user is rated against which ride |

## 

## **Response Value:**

**{**

**“Code”: 200**

**“Value”: [**

**Result: “user successfully rated.”,**

**Error: false,**

**Message: “”**

**]**

**}**

**5.** **Request**

**Description - REST API for beginning a ride**

|  |  |  |
| --- | --- | --- |
| **Name** | **Method** | **Description** |
| /api/driver/startRide | POST | Driver begins a ride when he meets the user |

### **Sample Request:**

|  |
| --- |
| [http://localhost:8085/api/driver/startRide](http://localhost:8085/api/user/list) |

### **Locale Parameters**

The following list displays the parameter required by the API. Results will be a JSON object specifying the response send by server.

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data Type** | **Required/Optional** | **Description** |
| rideid | String | Required | ride id is a unique id assigned to every ride. |
| driver\_id | String | Required | driver id is a unique id assigned to every driver. |
| Start\_location | String | Required | User pickup point i.e. Current location |
| End\_location | String | Required | End Location |
| Start\_time | String | Required | Start Time of ride. |

## **Response Value:**

**{**

**“Code”: 200**

**“Value”: [**

**Result: “ride successfully created.”,**

**Error: false,**

**Message: “”**

**]**

**}**

**6.** **Request**

**Description - REST API for ending a ride.**

|  |  |  |
| --- | --- | --- |
| **Name** | **Method** | **Description** |
| /api/driver/endRide | PUT | Driver ends the ride that he started earlier, to mark the end time of the ride |

### **Sample Request:**

|  |
| --- |
| [http://localhost:8085/api/driver/endRide](http://localhost:8085/api/user/list) |

### **Locale Parameters**

The following list displays the parameter required by the API. Results will be a JSON object specifying the response send by server.

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data Type** | **Required/Optional** | **Description** |
| rideid | String | Required | user id is a unique id assigned to every user. |
| End\_time | String | Required | End Time of ride. |

## **Response Value:**

**{**

**“Code”: 200**

**“Value”: [**

**Result: “end time successfully recorded.”,**

**Error: false,**

**Message: “”**

**]**

**}**

**7.** **Request**

**Description - REST API for showing previous rides.**

|  |  |  |
| --- | --- | --- |
| **Name** | **Method** | **Description** |
| /api/driver/selectdriver/previousRides | POST | Show Previous rides by driver. |

### **Sample Request:**

|  |
| --- |
| [http://localhost:8085/api/driver/](http://localhost:8085/api/user/list)selectdriver/previousRides |

### **Locale Parameters**

The following list displays the parameter required by the API. Results will be a JSON object specifying the response send by server.

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data Type** | **Required/Optional** | **Description** |
| driverid | String | Required | driver id is a unique id assigned to every driver. This is required to retrieve all rides for this driverid |

## **Response Value:**

**{**

**“Code”: 200**

**“Value”: [**

**Result: {**

userid

driverid

Start\_location

End\_location

Start\_time

End\_time

Amount

Distance

**},**

**{**

**fields of rides displayed**

**},**

**{**

**fields of rides displayed**

**},**

**Error: false,**

**Message: “”**

**]**

**}**

**Billing API**

**1.** **Request**

**Description - REST API for creating a new billing information.**

|  |  |  |
| --- | --- | --- |
| **Name** | **Method** | **Description** |
| /api/billing/createBilling | POST | Creates a record with necessary billing information. |

### **Sample Request:**

|  |
| --- |
| http://localhost:8001/api/billing/createBilling |

### **Locale Parameters**

The following list displays the parameter required by the API. Results will be a JSON object specifying the response send by server.

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data Type** | **Required/Optional** | **Description** |
| userid | String | Required | user id is a unique id assigned to every user. For requesting a ride user id should be used. |
| driverid | String | Required | driver id is a unique id assigned to every driver.For notifying which driver user selected. |
| Start\_location | String | Required | Current Location |
| End\_location | String | Required | End Location |
| Start\_time | String | Required | Start Time of ride. |
| End\_time | String | Required | End time of ride. |
| Amount | String | Required | Billable Amount |
| Multiplication\_factor | Number | Required | If user pays more than actual rate during peak hour, the additional percent paid is recorded |

## **Response Value:**

**{**

**“Code”: 200**

**“Value”: [**

**Result: “Billing details created successfully”,**

**Error: false,**

**Message: “”**

**]**

**}**

**2.** **Request**

**Description - REST API for viewing billing information.**

|  |  |  |
| --- | --- | --- |
| **Name** | **Method** | **Description** |
| /api/billing/viewBilling | POST | To view a particular billing detail. |

### **Sample Request:**

|  |
| --- |
| http://localhost:8001/api/billing/viewBilling |

### **Locale Parameters**

The following list displays the parameter required by the API. Results will be a JSON object specifying the response send by server.

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data Type** | **Required/Optional** | **Description** |
| billingId | Integer | Required | Auto-incremented billing id |

## **Response Value:**

**{**

**“Code”: 200**

**“Value”: [**

**Result: {**

userid

driverid

Start\_location

End\_location

Start\_time

End\_time

Amount

Distance

Multiplication\_Factor

**},**

**Error: false,**

**Message: “”**

**]**

**}**

**ADMIN API-**

**1.** **Request**

**Description - REST API for getting list of all users.**

|  |  |  |
| --- | --- | --- |
| **Name** | **Method** | **Description** |
| /api/user/getAllUsers/ | GET | Retrieves information from the database  for all users. |

### **Sample Request:**

|  |
| --- |
| [http://localhost:8085/api/user/getAllUsers](http://localhost:8085/api/user/list) |

### **Locale Parameters**

The following list displays the parameter required by the API. Results will be a JSON object specifying the response send by server.

## **Response Value:**

**{**

**“Code”: 200**

**“Value”: [**

**Result: {**

username,

lastname,

phone number,

email id,

address,

gender,

creditcard

**},**

**{**

**fields of other user displayed**

**},**

**{**

**fields of other user displayed**

**},**

**Error: false,**

**Message: “”**

**]**

**}**

**2.** **Request**

**Description - REST API for getting list of all driver.**

|  |  |  |
| --- | --- | --- |
| **Name** | **Method** | **Description** |
| /api/driver/getAllDrivers | GET | Retrieves information from the database  of all drivers. |

### **Sample Request:**

|  |
| --- |
| [http://localhost:8085/api/driver/getAllDrivers](http://localhost:8085/api/user/list) |

### **Locale Parameters**

The following list displays the parameter required by the API. Results will be a JSON object specifying the response send by server.

## **Response Value:**

**{**

**“Code”: 200**

**“Value”: [**

**Result: {**

driverid,

drivername,

phone number,

email id,

address,

gender,

car details,

image

**},**

**{**

**fields of other driver displayed**

**},**

**{**

**fields of other driver displayed**

**},**

**Error: false,**

**Message: “”**

**]**

**}**

**3.** **Request**

**Description - REST API for getting list of all rides**

|  |  |  |
| --- | --- | --- |
| **Name** | **Method** | **Description** |
| /api/user/getAllRides | GET | Retrieves information from the database  for all rides. |

### **Sample Request:**

|  |
| --- |
| [http://localhost:8085/api/user/getAllRides](http://localhost:8085/api/user/list) |

### **Locale Parameters**

The following list displays the parameter required by the API. Results will be a JSON object specifying the response send by server.

## **Response Value:**

**{**

**“Code”: 200**

**“Value”: [**

**Result: {**

userid

driverid

Start\_location

End\_location

Start\_time

End\_time

Amount

Distance

**},**

**{**

**fields of other ride**

**},**

**Error: false,**

**Message: “”**

**]**

**}**