273 Class Project (Team 4)

API Design Document

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<u>1:CITY</u>

API: 1

Title	List of cities This api will auto suggest list of cities as per user input	
URL	/cities	
Method	GET	
Data Params	No data param required	
Response Code	200 (ok) 500 (internal server error)	
Response result	{	
Note	No authentication required to use the api	

2: **CARS**

Title	Search Cars This api will search all the available cars based on location and date
URL	/cars
Method	POST
Data Params	{ data:{ src_city: "San Francisco", des_city: "San Diego" <optional> start_date: "10/11/2017", end_date: "11/11/2017" } }</optional>
Response Code	200 (ok) 401 (result not found) 500 (internal server error)
Response result	{ car_id: <number></number>

```
people: 4,
                           bag:3,
                           door:4,
                           price: $ 480,
                           src_city: "San Francisco",
                           des_city: "San Diego",
                           rental_agency: "Alamo",
                           car_type: "luxury"
                           },
                      car2:{
                           id: 2,
                           model_num: "Audi A8",
                           people: 5,
                           bag:4,
                           door:4,
                           price: "$ 500",
                           src_city: "San Francisco",
                           des_city: "San Diego",
                           rental_agency: "Alamo",
                           car_type: "luxury"
                           }
                    ]
                  No authentication required to use the api
Note
```

Title	Add new car entry Admin will use this api to add new car to the database	
URL	/addcar	
Method	POST	
Data Params	{ data:	

```
Example:
                 { data:
                          model_num: "Audi A",
                          people: 4,
                          bag:3,
                          door:4,
                          price: $ 480,
                          rental_agency: "Alamo",
                          car_type: "luxury"
                          }
Response Code
                 200 (ok)
                 401 (database error, prompt user to retry)
                 500 (internal server error)
Response result
                 No result expected
                 Need admin authentication to use this api
Note
```

Title	Edit an existing car entry Admin will use this api to edit an existing car detail	
URL	/editcar	
Method	POST	
Data Params	{ data:	

```
model_num: "Audi A",
people: 4,
bag:3,
door:4,
price: $ 480,
rental_agency: "Alamo",
car_type: "luxury"
}
}

Response Code 200 (ok)
401 (database error, prompt user to retry)
500 (internal server error)

Response result No result expected

Note Need admin authentication to use this api
```

Title	delete an existing car entry Admin will use this api to edit an existing car detail
URL	/deletecar
Method	POST
Data Params	{ data:
Response Code	200 (ok) 401 (database error, prompt user to retry) 500 (internal server error)
Response result	No result expected
Note	Need admin authentication to use this api

3: FLIGHT

API: 3.1

Title	Search flights for a round trip This API will list all the flights for a round trip based on the source and destination with respect to the particular departure and arrival dates.
URL	/flightsRoundTrip
Method	POST
Data Params	<pre>{ source : <string>, destination : <string>, source_departure_date : <date>, destination_departure_date : <date>, no_of_passengers : <integer> }</integer></date></date></string></string></pre>
Response Code	200 (Success) 401 (Data not found) 500 (Internal server error)
Response Data	<pre>{data: [{ flight_id:<string>, souce_airline : <string>, source_start_time : <string>, source_end_time : <string>, destination_airline : <string>, destination_start_time : <string>, destination_end_time : <string>, source_airline_duration : <integer>, destination_airline_duration : <integer> total_amount : <integer> }]</integer></integer></integer></string></string></string></string></string></string></string></pre>

	}
Note	No authentication required to use the API

API: 3.2

Title	Search flights for a one-way trip This API will list all the flights for a one-way trip based on the source and destination with respect to the particular departure date.
URL	/flightsOneWay
Method	POST
Data Params	{ source : <string>, destination : <string>, departure_date : <date>, no_of_passengers : <integer> }</integer></date></string></string>
Response Code	200 (Success) 401 (Data not found) 500 (Internal server error)
Response Data	<pre>{data: [{ flight_id:<string>, airline : <string>, start_time : <string>, end_time : <string>, duration : <integer>, total_amount : <integer> }] }</integer></integer></string></string></string></string></pre>
Note	No authentication required to use the API

API: 3.3

Title	Add a flight This API will allow the admin to add a new flight
URL	/addFlight
Method	POST

Data Params	{ flight_id: <string>, source : <string>, destination : <string>, start_time : <string>, end_time : <string>, operational_day : <string>, airline_name : <string>, class_type:<string>, fare : <integer>, flight_duration : <integer> }</integer></integer></string></string></string></string></string></string></string></string>
Response Code	200 (Success) 401 (Already exists) 500 (Internal server error)
Response Data	No data expected
Note	Admin should be logged-in to use this API

API:3.4

Title	Edit flight This API will allow the admin to edit the details of a flight
URL	/editFlight
Method	POST
Data Params	{ flight_id: <string> source: <string>, destination: <string>, start_time: <string>, end_time: <string>, operational_day: <string>, airline_name: <string>, fare: <integer>, flight_duration: <integer> }</integer></integer></string></string></string></string></string></string></string>
Response Code	200 (Success) 401 (Data not found) 500 (Internal server error)
Response Data	No data expected

Note Admin should be logged-in to use this API	Note
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API:3.5

Title	Delete flight This API will allow the admin to delete a flight
URL	/deleteFlight
Method	POST
Data Params	{ flight_id : <string> }</string>
Response Code	200 (Success) 401 (Data not found) 500 (Internal server error)
Response Data	No data expected
Note	Admin should be logged-in to use this API

4:HOTELS

Title	List Of Hotels This API will get the list of all hotels based on location, quantity and date
URL	/hotels
Method	POST
Data Params	<pre>data : { location : <string>, checkInDate : <string>, checkOutDate : <string>, rooms : <numeric>, adults : <numeric>, children : <numeric> }</numeric></numeric></numeric></string></string></string></pre>
Response Code	200(ok) 404(not found) 500(internal server error)

```
Response Result
                    Hotels: [
                     { "HotelName": <string>,
                           "Price":<string>,
                           Stars:<string>,
                           Address:<string>,
                           City: <string>,
                           State: <string>,
                           RoomType: <string>,
                           Reviews: <string>,
                           Rating:<numeric>,
                           UserDetails: <srting>
                    }]
                    }
Note
                    No authentication required to use the api
```

Title	Book Hotel This API will take the details of the selected hotel from user
URL	/hotelbooking
Method	POST
Data Params	data: { location: <string>, checkInDate: <string>, checkOutDate: <string>, rooms: <numeric>, adults: <numeric>, children: <numeric>, userdetails: <string> }</string></numeric></numeric></numeric></string></string></string>
Response Code	200(ok) 404(data not found) 500(internal server error)

Title	Add a new hotel This API will let the admin add hotel details to the existing
URL	/addHotel
Method	POST
Data Params	<pre>{ data : { Hotel Name : <string>, Hotel Price : <string>, Room Type : <string>, Rating : <numeric>, Star : <numeric>, Address: <string>, City: <string> State : <string> } }</string></string></string></numeric></numeric></string></string></string></pre>
Response Code	200(ok) 404(data not found) 500(internal server error)
Response Result	No data expected
Note	Need admin authentication to add new hotel

API:4.4

Title	Delete an existing hotel This API will let the admin delete an existing hotel
URL	/deleteHotel
Method	POST
Data Params	data: { Hotel ID: <string> Hotel Name: <string>, Hotel Price: <string>, Room Type: <string>, Rating: <numeric>, Star: <numeric>, Address: <string>, City: <string> State: <string> }</string></string></string></numeric></numeric></string></string></string></string>
Response Code	200(ok) 404(data not found) 500(internal server error)
Response Result	No data expected
Note	Need admin authentication to delete a hotel

Title	Update Hotel This API will let the admin update an existing hotel
URL	/updateHotel
Method	POST

Data Params	data: { Hotel ID: <string> Hotel Name: <string>, Hotel Price: <string>, Room Type: <string>, Rating: <numeric>, Star: <numeric>, Address: <string>, City: <string> State: <string> }</string></string></string></numeric></numeric></string></string></string></string>
Response Code	200(ok) 404(data not found) 500(internal server error)
Response Result	No data expected
Note	Admin authentication required to update hotel detail

5:USER/ADMIN

Title	Signup for user This API will register a new user
URL	/signup
Method	POST
Data Params	{ data:[{ email : <string>, password : <string> }] } Example:</string></string>
	data:[{ email:"xyz@gmail.com", Password:"xyz123456" }]

	}
Response Code	200 (ok) 401(User already exists) 500 (Internal server error)
Response Data	No data expected
Note	No authentication required to use the API

Title	Signin for user and admin This API will authenticate a user or admin
URL	/signin
Method	POST
Data Params	{ data:[{ email : <string>, password : <string> }] } Example: { data:[{ email:"xyz@gmail.com", Password:"xyz123456" }] }</string></string>
Response Code	200 (Ok) 401(Data not found) 500 (Internal server error)
Response Data	{ data:[{ email: <string> }] } Example: { data:[{ email:"xyz@gmail.com"</string>

	}] }
Note	No authentication required to use the API

Title	Account details of a user or admin This API will give the account details of a user or admin
URL	/getAccountDetails
Method	GET
Data Params	{ data:[{ email: <string> }] }</string>
	Example: { data:[{ email:"xyz@gmail.com" }] }
Response Code	200 (Ok) 401 (Data not found) 500 (Internal server error)
Response Data	{ data:[{ user_id: <string>, email:<string>, password:<string>, first_name:<string>, last_name:<string>, address:<string>, city:<string>, state:<string>, zipcode:<string>, phone_number:<string>, profile_image:<string>, creditcard_details:<string>, admin_id:<string></string></string></string></string></string></string></string></string></string></string></string></string></string>

```
}]
                       }
                        Example:
                        {
                              data:[{
                              user_id:"xyz123",
                              email:"xyz@gmail.com",
                              password:"xyz123",
                              first_name:"xyz",
                              last_name:"zy",
                              address:"1 washington square",
                              city:"san jose",
                              state:"california",
                              zipcode:"329392",
                              phone_number:"3939902930",
                              profile_image: "/images/image.jpeg",
                              creditcard_details:"744794904930400",
                              admin_id:"admin123"
                              }]
                        }
Note
                        Authentication required to use the API
```

Title	Update account details of a user or admin This API will update the account details of a user or admin
URL	/updateAccountDetails
Method	POST
Data Params	<pre>{ data:[{ user_id:<string>, email:<string>, password:<string>, first_name:<string>, last_name:<string>, address:<string>, city:<string>, state:<string>, state:<string>, phone_number:<string>, profile_image:<string>, profile_image:<string>,</string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></string></pre>

```
creditcard_details:<String>,
                               admin_id:<String>
                              }]
                        }
                        Example:
                        {
                              data:[{
                              user_id:"xyz",
                              email:"xyz@gmail.com",
                              password:"xyz",
                              first_name:"xhjsk",
                              last_name:"zylld",
                              address:"1 washington square",
                              city:"san jose",
                              state:"california",
                              zipcode:"329392",
                              phone_number:"3939907237",
                              profile_image: "/images/profilePic.jpeg",
                              creditcard_details:"74479423894930400",
                              admin_id:"admin234"
                              }]
                        }
Response Code
                         200 (Ok)
                        401 (Data not found)
                        500 (Internal server error)
Response Data
                        data:[{
                               user_id:<String>,
                               email:<String>,
                               password:<String>,
                               first_name:<String>,
                               last_name:<String>,
                               address:<String>,
                               city:<String>,
                               state:<String>,
                               zipcode:<String>,
                               phone_number:<String>,
                               profile_image:<String>,
                               creditcard_details:<String>,
                               admin_id:<String>
                               }]
                        Example:
```

```
{
                              data:[{
                              user_id:"xyz",
                              email:"xyz@gmail.com",
                              password:"xyz",
                              first_name:"xhjsk",
                              last_name:"zylld",
                              address:"1 washington square",
                              city:"san jose",
                              state:"california",
                              zipcode:"329392",
                              phone_number:"3939907237",
                              Profile_image: "/img.jpeg",
                              creditcard_details:"74479423894930400",
                              admin_id:"admin234"
                              }]
                        }
Note
                        Authentication required to use the API
```

Title	Delete user This API will delete a user
URL	/deleteUser
Method	DELETE
Data Params	{ data:[{ email: <string> }] } Example: { data:[{ email:"xyz@gmail.com" }] }</string>
Response Code	200 (Ok) 401 (User not found) 500 (Internal server error)

Response Data	Data not expected
Note	Authentication required to use the API

Title	Get all users and their details for admin This API will get the list of all users and their details for an admin
URL	/getAllUsers
Method	GET
Data Params	-
Response Code	200 (Ok) 401 (Data not found) 500 (Internal server error)
Response Data	<pre>{ data:[{ user_id:<string> email:<string> password:<string> first_name:<string> last_name:<string> address:<string> city:<string> state:<string> zipcode:<string> phone_number:<string> profile_image:<string> creditcard_details:<string> }] }</string></string></string></string></string></string></string></string></string></string></string></string></pre>
Note	Authentication required to use the API

Title	Search bills This API will get all bills for admin based on attributes selected
URL	/getUsersBills
Method	GET
Data Params	<pre>{ data:[{ date:<string>, months:<string> }] } Example: { data:[{ months: "01" }] }</string></string></pre>
Response Code	200 (Ok) 401 (Data not found) 500 (Internal server error)
Response Data	<pre>{ data:[{ booking_id: <string>, booking_type: <string>, total_amount: <string>, date:<string>, user_id:<string> }] } Example: { data:[{ booking_id: "bx8273kd, booking_type: "car", total_amount: "1200", date:"10/5/2016", user_id:"xyz123" }]</string></string></string></string></string></pre>
Note	Authentication required to use the API

6:BOOKINGS

API:6.1

Title	Booking detail This api will return user specific booking details based on provided inputs
URL	/bookingDetails
Method	POST
Data Params	<pre>{ user Id : <number>, booking_type : <string>, start_date: <date>, end_date: <date>" }</date></date></string></number></pre>
Response Code	200 (Ok) 401 (Data not found) 500 (Internal server error)
Response Data	{ user Id : <number>, trip_id : <number>, booking_type : <string>, hotel/Flight/Car id : <number>, billing_id: <number>, date : <date>, total amount: \$<number>, start_date: <date>, end_date: <date>" } }</date></date></number></date></number></number></string></number></number>
	Example: { Booking_detaills1: { user Id : 344567, trip_id : 12345, booking_type : "Hotel",

```
hotel/Flight/Car id: 122,
                                billing_id: 123456,
                                date: "7/11/2017",
                                total amount: "$"450,
                                start_date: "10/11/2017",
                                end_date: "11/11/2017"
                                 },
                         Booking_details2:
                                 user ld: 34456789,
                                 trip_id: 1235645,
                                 booking_type: "Car",
                                 hotel/Flight/Car id: 12,
                                 billing_id: 12346656,
                                 date: "7/11/2017",
                                 total amount: "$"45,
                                 start_date: "10/11/2017",
                                 end_date: "10/11/2017"
                         }
                         User authentication is required to use the api
Note
```

API:6.2

Title	Payment This API will allow the user to securely perform the payment.
URL	/payment
Method	POST
Data Params	<pre>payment_method : <string>, card_number : <string>, card_holders_name : <string>, expiration_date : <string>, cvv : <integer>, country : <string>, city : <string>, state : <string>, zip : <string>, phone_number : <string>, email : <string>, </string></string></string></string></string></string></integer></string></string></string></string></pre>

	type: <string>, booking_type_id: <string> }</string></string>
Response Code	200 (Success) 401 (Data not found) 404 (Internal server error)
Response Data	No data expected
Note	User should be logged-in to use this API