**API Specification Doc**

**(*Ticket Reservation System*)**

|  |  |  |  |
| --- | --- | --- | --- |
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| 1.0 | 12-Nov-2017 | Sardar Tabish Zaman & Osama Haroon | Initial draft |

## 

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## 

## 

## 1. Admin login

## Request

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | api/admin-login/ |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Values** |
| POST  POST | admin\_name  password | string  string |

## Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | {  reDirectTo : index.html  } |
| 400 | {"error":"Please provide username."} |
| 400 | {"error":"Please provide password."} |
| 401 | {"error":"Incorrect username or password."} |
| 500 | {"error":"Something went wrong. Please try again later."} |

## 2. Add & get reservations

## Request

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | api/reservations |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Values** |
| HEAD  POST | auth\_key  reservation\_id | String  number |

**auth\_key**

The auth\_key that was given in response to /api/login

**Reservation\_id**

The current version of Coach Ticket Reservation. Each time when new reservations are reserved by the Admin, the internal reservation\_id is incremented.

## Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | **Adding**  {  "user\_id": 10,  "name": "Ali",  “From”: ”Karachi”,  “To”: ”Lahore”,  “Departure\_Time” : “9/1/2018”  “Seat\_No” : 20  “Fare”: 2300  “Advance” :1000  “Remaining”: 1300  “Phone” : 03101234567  “CNIC” : 42301110077552  “Time” : 07:00 am  “Date” :1/1/2018  }  **An example response is:-**  {  "user\_id": 10,  "name": "Ali",  “From”: ”Karachi”,  “To”: ”Lahore”,  “Departure\_Time” : “9/1/2018”  “Seat\_No” : 20  “Fare”: 2300  “Advance” :1000  “Remaining”: 1300  “Phone” : 03101234567  “CNIC” : 42301110077552  “Time” : 07:00 am  “Date” :1/1/2018  } |
| 400 | {"error":"Please specify reservation."} |
| 400 | {"error":"Invalid reservation."} |
| 401 | {"error":"Invalid API key."} |
| 500 | {"error":"Something went wrong. Please try again later."} |

## 3. Cancel reservations

Get the reservations that were deleted from the web interface, so that they can be deleted from the internal database also.

## Request

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | api/reservation-deletions/ |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Values** |
| HEAD  POST | auth\_key  Reservation\_id | String  number |

**Reservation\_id**

The current version of Coach Ticket Reservation. Each time when reservations are deleted by the admin by using Reservation\_id, the internal information is deleted.

## Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | **Containing the reservation ID to cancel**  Example response:-  {“Reservation has been Cancelled”} |
| 400 | {"error":"Please specify reservation ID."} |
| 400 | {"error":"Invalid reservatoin ID."} |
| 401 | {"error":"Invalid Auth key."} |
| 500 | {"error":"Something went wrong. Please try again later."} |

## 4. Update reservations

Update reservations

## Request

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | api/update-reservations |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Values** |
| HEAD  POST | auth\_key  reservation\_id | String  number |

**Reservation\_id**

The current version of Coach Ticket Reservation. Each time when reservations are updated by the Admin through Reservation\_id, the internal information is updated.

## Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | **Response will have the following structure.**  **UPDATING..**  {  "user\_id": 11,  "name": "Ali",  “From”: ”Karachi”,  “To”: ”Lahore”,  “Departure\_Time” : “9/1/2018”  “Seat\_No” : 20  “Fare”: 2300  “Advance” :1000  “Remaining”: 1300  “Phone” : 03101234567  “CNIC” : 42301110077552  “Time” : 07:00 am  “Date” :1/1/2018  }  **Response is:-**  {  "user\_id": 11,  "name": "Ali",  “From”: ”Karachi”,  “To”: ”Lahore”,  “Departure\_Time” : “9/1/2018”  “Seat\_No” : 20  “Fare”: 2300  “Advance” :1000  “Remaining”: 1300  “Phone” : 03101234567  “CNIC” : 42301110077552  “Time” : 07:00 am  “Date” :1/1/2018  } |
| 400 | {"error":"Please specify reservation."} |
| 400 | {"error":"Invalid reservation."} |
| 500 | {"error":"Something went wrong. Please try again later."} |

## 5. Add & get Driver Records

Add new record

## Request

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | api/driver-record |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Values** |
| HEAD  POST | auth\_key  id | String  number |

**auth\_key**

The auth\_key that was given in response to /api/login

**id**

The current version of Coach Ticket Reservation. Each time when new record is inserted by the Admin, the internal id is incremented.

## Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | **Adding**  {  "id": 10,  “Coach\_name”: "Daewoo",  “Phone” : 03101234567  “CNIC” : 42301110077552  “Address”:”abcasdda”  }  **Response example :-**  {  "id": 10,  “Coach\_name”: "Daewoo",  “Phone” : 03101234567  “CNIC” : 42301110077552  “Address”:”abcasdda”  } |
| 400 | {"error":"Please specify reservation."} |
| 400 | {"error":"Invalid Record inserted."} |
| 500 | {"error":"Something went wrong. Please try again later."} |

## 6. Deletions of Driver Records

It will delete Driver records

## Request

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | api/record-deletions/ |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Values** |
| POST | Id | Number |

**id**

The current version of Coach Ticket Reservation. Each time when records are deleted by the admin by using id, the internal information is deleted.

## Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | **Containing the ID to delete**  Example response:-  {“Record has been deleted”} |
| 400 | {"error":"Please specify ID."} |
| 400 | {"error":"Invalid ID."} |
| 500 | {"error":"Something went wrong. Please try again later."} |

## 7. Update Driver Records

Update reservations

## Request

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | api/update-record |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Values** |
| POST | id | Number |

**id**

The current version of Coach Ticket Reservation. Each time when reservations are updated by the Admin through id, the internal information is updated.

## Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | **Response will have the following structure.**  **UPDATING..**  {  "id": 20,  “Coach\_name”: "Daewoo",  “Phone” : 03101234567  “CNIC” : 42301110077552  “Address”:”abcasdda”  }  **Response :-**  {  "id": 20,  “Coach\_name”: "Daewoo",  “Phone” : 03101234567  “CNIC” : 42301110077552  “Address”:”abcasdda”  } |
| 400 | {"error":"Please specify Record."} |
| 400 | {"error":"Invalid Record."} |
| 500 | {"error":"Something went wrong. Please try again later."} |

## 8. Add & get Coach Information

## Request

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | api/coach-info |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Values** |
| POST | id | number |

**id**

The current version of Coach Ticket Reservation. Each time when new record is inserted by the Admin, the internal id is incremented.

## Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | **Adding**  {  "id": 10,  “Coach\_name”: "Daewoo",  “Timing” : “7:00 am”,  “Destination\_location”:”lahore”  “Fare” : 2300  }  **Response example :-**  {  "id": 10,  “Coach\_name”: "Daewoo",  “Timing” : “7:00 am”,  “Destination\_location”:”lahore”  “Fare” : 2300  } |
| 400 | {"error":"Please specify Coach information."} |
| 400 | {"error":"Invalid Record inserted."} |
| 500 | {"error":"Something went wrong. Please try again later."} |

## 9. Deletions of Coach Information

## It will delete Coach Information

## Request

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | api/Coach\_info-deletions/ |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Values** |
| HEAD  POST | auth\_key  id | String  Number |

**id**

The current version of Coach Ticket Reservation. Each time when records are deleted by the admin by using id, the internal information is deleted.

## Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | **Containing the ID to delete**  Example response:-  {“Record has been deleted”} |
| 400 | {"error":"Please specify ID."} |
| 400 | {"error":"Invalid ID."} |
| 500 | {"error":"Something went wrong. Please try again later."} |

## 10. Update Coach Information

## Request

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | api/update-Coach\_info |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Values** |
| POST | id | Number |

**id**

The current version of Coach Ticket Reservation. Each time when reservations are updated by the Admin through id, the internal information is updated.

## Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | **Response will have the following structure.**  **UPDATING..**  {  "id": 30,  “Coach\_name”: "Daewoo",  “Timing” : “8:00 am”,  “Destination\_location”:”lahore”  “Fare” : 2300  }  **Response :-**  {  "id": 30,  “Coach\_name”: "Daewoo",  “Timing” : “8:00 am”,  “Destination\_location”:”lahore”  “Fare” : 2300  } |
| 400 | {"error":"Please specify Record."} |
| 400 | {"error":"Invalid Record."} |
| 500 | {"error":"Something went wrong. Please try again later."} |

Glossary

## Conventions

* **Client** - Client application.
* **Status** - HTTP status code of response.
* All the possible responses are listed under ‘Responses’ for each method. Only one of them is issued per request server.
* All response are in JSON format.
* All request parameters are mandatory unless explicitly marked as [optional]

## Status Codes

All status codes are standard HTTP status codes. The below ones are used in this API.

2XX - Success of some kind

4XX - Error occurred in client’s part

5XX - Error occurred in server’s part

|  |  |
| --- | --- |
| **Status Code** | **Description** |
| 200 | OK |
| 201 | Created |
| 202 | Accepted (Request accepted, and queued for execution) |
| 400 | Bad request |
| 401 | Authentication failure |
| 403 | Forbidden |
| 404 | Resource not found |
| 405 | Method Not Allowed |
| 409 | Conflict |
| 412 | Precondition Failed |
| 413 | Request Entity Too Large |
| 500 | Internal Server Error |
| 501 | Not Implemented |
| 503 | Service Unavailable |