**Capstone Project**

( Back end Documentation )

**Authentication Controller:**

**REGISTER**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | api /v1/ register |

**REQUEST:**

|  |  |
| --- | --- |
| **HEADER** | **Content-type:** Application/json |
| **BODY** | {  "username": "string",  "email": "string",  "password": "string",  "role": "string",  "gender": "string"  } |

**RESPONSE**

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | {  "token": "string",  "role": [ "USER" ]  } |

**LOGIN:**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | api /v1/ authenticate |

**REQUEST:**

|  |  |
| --- | --- |
| **HEADER** | **Content-type:** Application/json |
| **BODY** | {  "email": "string",  "password": "string",  "role": "string"  } |

**RESPONSE:**

|  |  |
| --- | --- |
| **STATUS** | **RESPONSE** |
| 200 | {  "token": "string",  "role": [ "USER" ]  } |

**Bus Controller:**

**SEARCH BUS**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | search/?source=${source}&destination=${destination}&availableDate=${date} |

**REQUEST:**

|  |  |
| --- | --- |
| **HEADER** | **Content-type:** Application/json |
| **PARAMS** | source=String, destination=String,  availableDate=String |

**RESPONSE**

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | [  {  "id": 0,  "name": "string",  "source": "string",  "destination": "string",  "departureTime": "string",  "arrivalTime": "string",  "price": "string",  "busType": "string",  "numberOfSeats": 0,  "seatLayout": {  "lower": {  "first": [ [0], [1],... ],  "second": [ 0, 1,...]  },  "upper": {  "first": [ [0], [1], ...]  "second": [ 0, 1, ....]  },  "first": [ [0, 1, ...] ],  "second": [  [ 0, 1, ... ]]  },  "bookings": {  "get\_id": {  "timestamp": 0,  "date": "2024-07-07T16:09:29.812Z"  },  "bookingId": 0,  "busId": 0,  "date": "string",  "bookedSeats": [  "string"  ]  }  }  ] |

**BOOKING:**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | /booking?busId=${busId}&source=${source}&destination=${destination}&date=${date} |

**REQUEST:**

|  |  |
| --- | --- |
| **HEADER** | **Content-type:** Application/json |
| **PARAMS** | busId=Integer  source=String, destination=String,  availableDate=String |

**RESPONSE:**

|  |  |
| --- | --- |
| **STATUS** | **RESPONSE** |
| 200 | {  "id": 0,  "name": "string",  "source": "string",  "destination": "string",  "departureTime": "string",  "arrivalTime": "string",  "price": "string",  "busType": "string",  "numberOfSeats": 0,  "seatLayout": {  "lower": {  "first": [ [0], [1],... ],  "second": [ 0, 1,...]  },  "upper": {  "first": [ [0], [1], ...]  "second": [ 0, 1, ....]  },  "first": [ [0, 1, ...] ],  "second": [  [ 0, 1, ... ]]  },  "bookings": {  "get\_id": {  "timestamp": 0,  "date": "2024-07-07T16:09:29.812Z"  },  "bookingId": 0,  "busId": 0,  "date": "string",  "bookedSeats": [  "string"  ]  }  } |

**Passenger Controller:**

**FIND PASSENGER PROFILE**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | find/passeneger/profile |

**REQUEST: null**

**RESPONSE**

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | {  "email": "string",  "userName": "string",  "userBookingsList": [  {  "get\_id": {  "timestamp": 0,  "date": "2024-07-07T16:19:56.543Z"  },  "email": "string",  "busId": 0,  "name": "string",  "source": "string",  "destination": "string",  "bookingId": 0,  "departureTime": "string",  "arrivalTime": "string",  "totalPrice": 0,  "date": "string",  "busType": "string",  "reservedSeats": [  "string"  ]  }  ]  } |

**Booking Controller:**

**TICKET RESERVATION**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **PUT** | /Reserve/store |

**REQUEST**

|  |  |
| --- | --- |
| **HEADER** | **Content-type:** Application/json |
| **BODY** | {  "busId": 0,  "date": "string",  "source": "string",  "destination": "string",  "bookedSeats": [ "string" , …]  } |

**RESPONSE**

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | {  "date": "string",  "bookingID": 0,  "total": 0,  "subtotal": 0  } |

**Ticket Controller:**

**VIEW TICKET**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | /ticket/view |

**REQUEST**

|  |  |
| --- | --- |
| **HEADER** | **Content-type:** Application/json |
| **PARAMS** | passengerId: Integer,  bookingId: Integer |

**RESPONSE**

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | {  "userName": "string",  "userBookings": {  "get\_id": { "timestamp": 0,  "date": "2024-07-07T16:25:34.745Z"  },  "email": "string",  "busId": 0,  "name": "string",  "source": "string",  "destination": "string",  "bookingId": 0,  "departureTime": "string",  "arrivalTime": "string",  "totalPrice": 0,  "date": "string",  "busType": "string",  "reservedSeats": [ "string" ,….]  }  } |