# **Bus Booking System API Documentation**

## **Middleware Usage**

This API uses middleware to verify users and admins:

- Only Admins can add and update buses.
- Users can update their own profile.
- Authentication tokens are stored in cookies.
- Data is stored in MongoDB.

### 1. User Registration

## **Endpoint:**

POST /api/user/register

#### **Base URL:**

http://localhost:4000

## **Description:**

Registers a new user in the system.

## **Request Body:**

```
{
  "username":"saran",
  "email":"saran.k@gmail.com",
  "password":"saran12345"
}
Success Response:
{
  "success": true,
  "message": "User registered successfully",
  "user": {
```

```
"id": "67b8953ab3252c5c17a1fc9d",

"username": "saran",

"email": "saran.k@gmail.com"
}
```

```
__id: ObjectId('67b8953ab3252c5c17a1fc9d')
username: "saran"
email: "saran.k@gmail.com"
password: "$2b$10$twOBdFHeZ0E7vARtY9jfNeYarkIClrKI6zBUwWDa5dnQJysY8udMa"
isAdmin: false
createdAt: 2025-02-21T15:01:14.621+00:00
updatedAt: 2025-02-21T15:04:17.356+00:00
__v: 0
```

#### 2. User Login

## **Endpoint:**

POST /api/user/login

## **Description:**

Authenticates a user and returns a JWT token stored in cookies.

```
Request Body:
```

{

```
{
  "email":"saran.k@gmail.com",
  "password":"saran12345"
}
Success Response:
```

```
"message": "Login successful",
  "token": "<JWT_TOKEN>",
  "user": {
    "_id": "67b8953ab3252c5c17a1fc9d",
    "username": "saran",
    "email": "saran.k@gmail.com",
    "isAdmin": false
  }
}
3. Update User(User ONLY)
Endpoint:
PUT /api/user/updateUser/:userId
Description:
Updates the user details. Users can only update their own profile.
Request Body:
{
  "username":"SARAN.K-ECE"
}
Success Response:
{
  "message": "User is updated",
```

"updatedUser": {

"\_id": "67b8953ab3252c5c17a1fc9d",

"username": "SARAN.K-ECE",

"email": "saran.k@gmail.com"

```
}
```

```
__id: ObjectId('67b8953ab3252c5c17a1fc9d')
username: "SARAN.K-ECE"
email: "saran.k@gmail.com"
password: "$2b$10$twOBdFHeZ0E7vARtY9jfNeYarkIClrKI6zBUwWDa5dnQJysY8udMa"
isAdmin: false
createdAt: 2025-02-21T15:01:14.621+00:00
updatedAt: 2025-02-22T05:07:32.523+00:00
__v: 0
```

## 4. Admin Registration

#### **Endpoint:**

POST /api/admin/register

## **Description:**

Registers an admin user.

```
Request Body:
```

```
"username":"admin",
  "email":"admin@gmail.com",
  "password":"admin12345"
}
Success Response:
{
  "message": "Admin user has been created successfully",
  "admin": {
    "adminName": "admin",
```

```
"isAdmin": true
}
```

```
aid: ObjectId('67b8966e16e8e2fbe5c4863d')
username: "admin"
email: "admin@gmail.com"
password: "$2b$10$zw5bhGAocuG43CKJJzo9Puf7kDQei/ACa2Zdi1HPtBbZQHQ0hjfja"
isAdmin: true
createdAt: 2025-02-21T15:06:22.495+00:00
updatedAt: 2025-02-21T15:06:22.495+00:00
__v: 0
```

## 5. Admin Login

## **Endpoint:**

POST /api/admin/login

## **Description:**

Authenticates an admin and returns a token stored in cookies.

## **Request Body:**

```
{
  "email":"admin@gmail.com",
  "password":"admin12345"
}
Success Response:
{
  "message": "Login successful",
  "_id": "67b8966e16e8e2fbe5c4863d",
```

```
"username": "admin",
  "email": "admin@gmail.com"
}
```

## 6. Add Bus (Admin Only)

#### **Endpoint:**

POST /api/bus/addBus

## **Description:**

Adds a new bus to the system. Only admins can perform this action.

## **Request Body:**

```
{
 "name": "Audi AC",
 "number": "TN401",
 "busType": "Sleeper",
 "totalSeats": 38,
 "availableSeats": 19,
 "route": "Salem to Bangalore",
 "departureTime": "9:00 PM",
 "arrivalTime": "8:00 AM"
}
Success Response:
{
  "success": true,
  "message": "Bus added successfully",
  "bus": {
    "name": "Audi AC",
```

```
"number": "TN401",

"busType": "Sleeper",

"totalSeats": 38,

"availableSeats": 38,

"route": "Salem to Bangalore"

}
```

```
__id: ObjectId('67b81b5665b301e8fc2b39a1')
    name : "BENZ AC"
    number : "TN101"
    busType : "Sleeper"
    totalSeats : 38
    availableSeats : 38
    route : "Salem to Bangalore"
    departureTime : "9:00 PM"
    arrivalTime : "8:00 AM"
    createdAt : 2025-02-21T06:21:10.223+00:00
    updatedAt : 2025-02-21T06:21:10.223+00:00
    __v : 0
```

#### 7. View All Buses

#### **Endpoint:**

GET /api/bus/allbus

#### **Description:**

Fetches all available buses.

#### **Success Response:**

```
{
"success": true,
```

```
"buses": [
    {
      "name": "BENZ AC",
      "number": "TN101",
      "busType": "Sleeper",
      "totalSeats": 38,
      "route": "Salem to Bangalore"
    },
    {
      "name": "Audi AC",
      "number": "TN401",
      "busType": "Sleeper",
      "totalSeats": 38,
      "route": "Salem to Bangalore"
    }
  ]
}
```

#### **QUERY RESULTS: 1-2 OF 2**

```
_id: ObjectId('67b81b5665b301e8fc2b39a1')
name: "BENZ AC"
number: "TN101"
busType: "Sleeper"
totalSeats: 38
availableSeats: 38
route: "Salem to Bangalore"
departureTime: "9:00 PM"
arrivalTime: "8:00 AM"
createdAt: 2025-02-21T06:21:10.223+00:00
updatedAt: 2025-02-21T06:21:10.223+00:00
__v: 0
```

\_\_id: ObjectId('67b95c711344202fdbc19e6c')
name: "Audi AC"
number: "TN401"
busType: "Sleeper"
totalSeats: 30
availableSeats: 30
route: "Chennai to Bangalore"
departureTime: "10:00 PM"
arrivalTime: "6:30 AM"
createdAt: 2025-02-22T05:11:13.325+00:00
updatedAt: 2025-02-22T05:11:13.325+00:00
\_\_v: 0

## 8. Update Bus(Admin Only)

#### **Endpoint:**

PUT /api/bus/updateBus/:busId

#### **Description:**

Updates the details of a specific bus. Only admins can update buses.

```
Request Body:
 "busType":"SemiSleeper"
}
Success Response:
{
  "success": true,
  "message": "Bus is updated",
  "updatedBus": {
    "_id": "67b95c711344202fdbc19e6c",
    "name": "Audi AC",
    "number": "TN401",
    "busType": "SemiSleeper",
    "totalSeats": 30,
    "availableSeats": 30,
    "route": "Chennai to Bangalore",
    "departureTime": "10:00 PM",
    "arrivalTime": "6:30 AM",
    "createdAt": "2025-02-22T05:11:13.325Z",
    "updatedAt": "2025-02-22T05:17:03.626Z",
    " v": 0
  }
}
```

```
_id: ObjectId('67b95c711344202fdbc19e6c')
         name: "Audi AC"
         number: "TN401"
         busType : "SemiSleeper"
         totalSeats: 30
         availableSeats: 30
         route: "Chennai to Bangalore"
         departureTime: "10:00 PM"
         arrivalTime: "6:30 AM"
         createdAt: 2025-02-22T05:11:13.325+00:00
         updatedAt: 2025-02-22T05:17:03.626+00:00
         __v: 0
9. Book a Bus
Endpoint:
POST /api/booking/book
Description:
Books a seat in a bus.
Request Body:
"busId": "67b896f623b0ecd1c782415b",
"seats": 1,
"payment":"Paid"
Success Response:
  "message": "Booking successful",
  "booking": {
    "bus": "67b896f623b0ecd1c782415b",
    "seats": 1,
```

{

{

```
"payment": "Paid",

"status": "Booked"

}
```

```
QUERY RESULTS: 1-2 OF 2
```

```
_id: ObjectId('67b81c2365b301e8fc2b39b2')
user: ObjectId('67b81b5565b301e8fc2b399d')
bus: ObjectId('67b81b5665b301e8fc2b39a1')
seats: 1
payment: "Paid"
status: "Booked"
bookedAt: 2025-02-21T06:24:35.420+00:00
__v: 0
```

#### 10. Cancel Booking

## **Endpoint:**

DELETE /api/booking/cancel/:bookingId

#### **Description:**

Cancels an existing bus booking.

#### **Success Response:**

```
"message": "Booking cancelled successfully",
"booking": {
    "status": "Cancelled"
}
```

```
id: ObjectId('67b89add23b0ecd1c7824161')
user: ObjectId('67b8966e16e8e2fbe5c4863d')
bus: ObjectId('67b896f623b0ecd1c782415b')
seats: 1
payment: "Paid"
status: "Cancelled"
bookedAt: 2025-02-21T15:25:17.606+00:00
__v: 0
```

## 11. My Bookings

## **Endpoint:**

GET /api/booking/my-bookings

## **Description:**

Retrieves all bookings of the logged-in user.

```
Success Response:
```

```
{
"bookings":
[ { "bus":
    {
    "name": "Audi AC",
    "totalSeats": 38,
    "route": "Salem to Bangalore"
    },
    "seats": 1,
    "payment": "Paid",
    "status": "Booked"
```

```
}]
}
```

```
id: ObjectId('67b89add23b0ecd1c7824161')
user: ObjectId('67b8966e16e8e2fbe5c4863d')
bus: ObjectId('67b896f623b0ecd1c782415b')
seats: 1
payment: "Paid"
status: "Cancelled"
bookedAt: 2025-02-21T15:25:17.606+00:00
__v: 0
```

#### **QUERY RESULTS: 1-2 OF 2**

```
_id: ObjectId('67b81c2365b301e8fc2b39b2')
user: ObjectId('67b81b5565b301e8fc2b399d')
bus: ObjectId('67b81b5665b301e8fc2b39a1')
seats: 1
payment: "Paid"
status: "Booked"
bookedAt: 2025-02-21T06:24:35.420+00:00
__V: 0
```