# Bus Booking Application

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## Introduction

The Bus Booking Application allows users to register, login, view bus routes, book tickets, manage their profile, and view booking history.

## Features

- User Registration and Authentication

- Viewing and Booking Bus Tickets

- User Profile Management

- Booking History

## Technologies

- Spring Boot

- Spring Security

- Hibernate

- MySQL

- Thymeleaf

- Bootstrap

## Setup

1. \*\*Clone the repository\*\*:

```bash

git clone https://github.com/yourusername/bus-booking-app.git

cd bus-booking-app

```

2. \*\*Configure the database\*\*:

Update the `application.properties` file with your MySQL database credentials:

```properties

spring.datasource.url=jdbc:mysql://localhost:3306/busbookingdb

spring.datasource.username=root

spring.datasource.password=Amaanish@8

```

## API Documentation

### User Registration

- \*\*Endpoint\*\*: `/api/passengers/register`

- \*\*Method\*\*: `POST`

- \*\*Request\*\*:

```json

{

"name": "Amaan Basha",

"email": "amaan@example.com",

"password": "password"

}

```

- \*\*Response\*\*:

```json

{

"id": 1,

"name": "Amaan Basha",

"email": "amaan@example.com"

}

```

### User Login

- \*\*Endpoint\*\*: `/api/passengers/login`

- \*\*Method\*\*: `POST`

- \*\*Request\*\*:

```json

{

"email": "amaan@example.com",

"password": "password"

}

```

- \*\*Response\*\*:

```json

"Login successful"

```

### View All Buses

- \*\*Endpoint\*\*: `/api/buses`

- \*\*Method\*\*: `GET`

- \*\*Response\*\*:

```json

[

{

"id": 1,

"busNumber": "1234",

"capacity": 50

},

...

]

```

### Book a Ticket

- \*\*Endpoint\*\*: `/api/bookings`

- \*\*Method\*\*: `POST`

- \*\*Request\*\*:

```json

{

"from": "Chennai",

"to": "Salem",

"bus": {

"id": 1

},

"bookingTime": "2024-12-25T14:30:00"

}

```

- \*\*Response\*\*:

```json

{

"id": 1,

"from": "Chennai",

"to": "Salem",

"bookingTime": "2024-12-25T14:30:00"

}

```

### Update Profile

- \*\*Endpoint\*\*: `/api/passengers/{id}`

- \*\*Method\*\*: `PUT`

- \*\*Request\*\*:

```json

{

"name": "Amaan Basha",

"email": "amaan@example.com",

"password": "newpassword }

```

- \*\*Response\*\*:

```json

{

"id": 1,

"name": "Amaan Basha",

"email": "amaan@example.com"

}

```

### View Booking History

- \*\*Endpoint\*\*: `/api/bookings`

- \*\*Method\*\*: `GET`

- \*\*Response\*\*:

```json

[

{

"id": 1,

"from": "Chennai",

"to": "Salem",

"bookingTime": "2024-12-25T14:30:00",

"bus": {

"busNumber": "1234"

}

},

...

]

```