BOOK BUS TICKET ONLINE

SAVE TIME & MONEY





CAPSTONE PROJECT BUS RESERVATION APPLICATION



DEVELOPED BY
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TABLE OF CONTENTS

- * Introduction
- * Project Aim
- * Objective
- ***** System Requirements
- ★ User Activity Diagram
- ★ Technologies Used
- ★ Project Modules
- ★ Use Case Diagram
- * Problem Statement and Solution
- ★ Screenshots of the Project
- ***** Conclusion
- ***** Future Scope



INTRODUCTION

- * The project aims to design a **Bus Reservation Application** that enables customers to search and book bus tickets. The Bus Reservation System includes fare tariffs, passenger reservations, and ticket records.
- * BookMyBus is a web application that provides a user-friendly interface and an efficient way to search and book bus tickets.
- * This project entitled "Design and Implement a Bus Ticket Reservation System" can be applicable to any bus service.
- * The features of this system will be similar to a common ticketing system. As a user:
- •You can view the bus schedule.
- You can book a bus ticket.
- •You can cancel your reservation.
- You can print your ticket.
- The purpose of this project is to develop an easy-to-use bus reservation system.

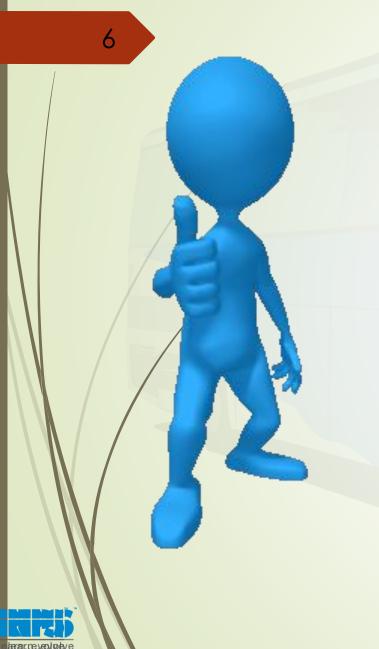


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- Identify, analyze, and implement the latest procedures and techniques to enhance a Computerized Bus Reservation and Ticketing System. By implementing the newest techniques and technology in the proposed project.
- Users should have access to search for buses and apply for tickets. They can register on the website to book tickets, and with their ticket number, users can track their bus details.



OBJECTIVE OF THE PROJECT



➤ The main objective of our project is to book. Bus tickets and manage Bus database as admin.

This has two parts first is user part and the administrator part.

User part is used as a front end and administrator is the back end. Administrator allows the customers to access database and allow new customers to sign up.

SYSTEM REQUIREMENTS

7

SOFTWARE

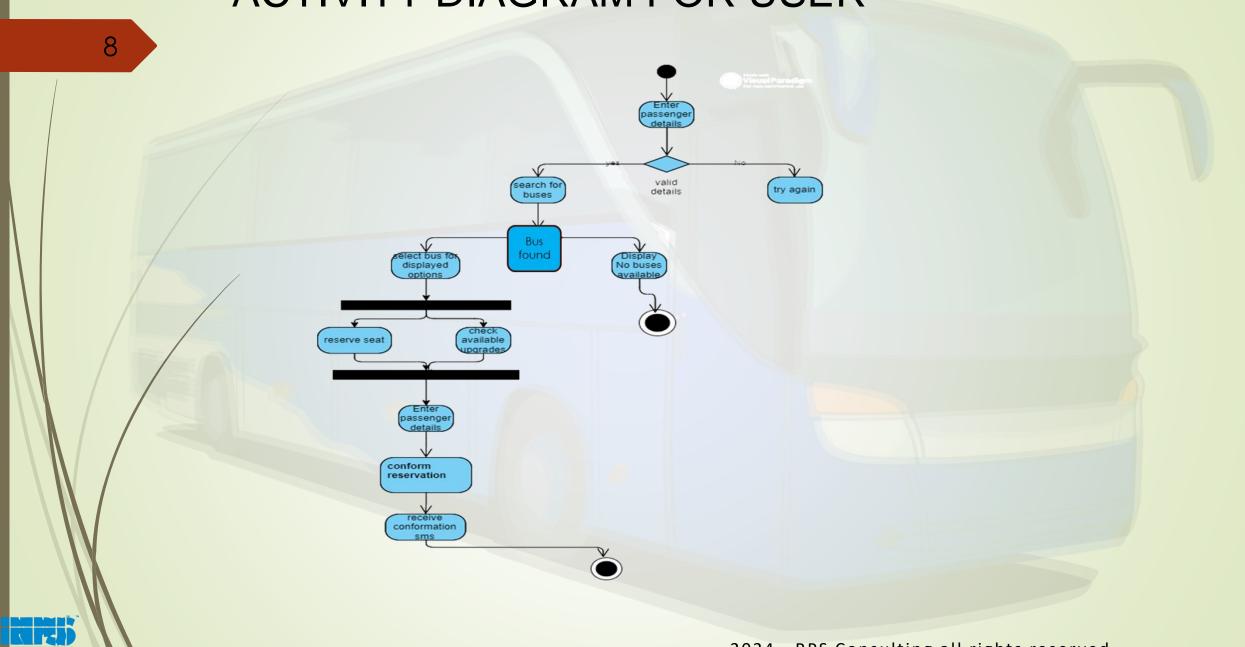
JDK 1.17 or Above
VS Code editor
MySQL DB
SpringSuitServer IDE
Postman

HARDWARE

RAM: 2 GB or above. Disk Space: 1GB or above.



ACTIVITY DIAGRAM FOR USER



TECHNOLOGIES USED

- Spring Boot 3.3
- Angular 8
- **I** MySQL
- **■** BootStrap 3.3
- **■** Hibernate with JPA 3.0

ADMIN MODULE

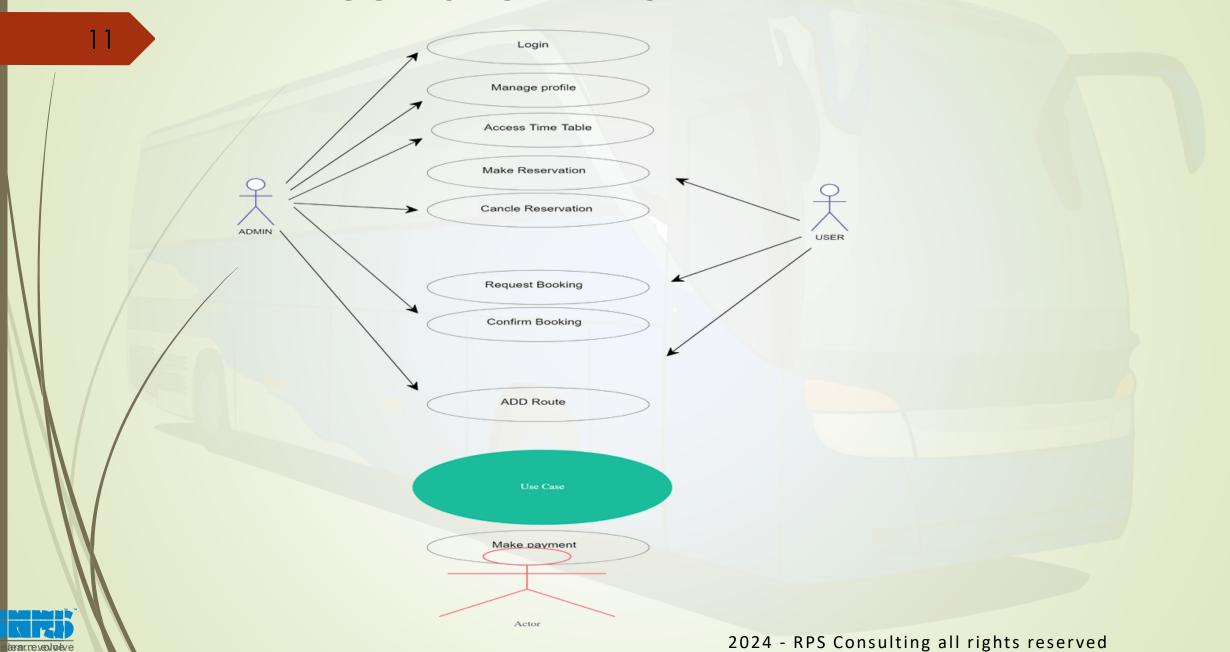
- Update Bus
- Login
- Add Bus
- Delete Bus

USER MODULE

- Register
- Login
- Bus Search
- Bus Select
- Bus Details
- Book Bus
- Payment
- Cancel Booking



USE CASE DIAGRAM



PROBLEM STATEMENT

- The traditional bus ticketing and reservation process often involves manual operations, long queues, and errors in booking or tracking reservations. Customers face challenges such as limited access to bus schedules, lack of transparency in seat availability, and inefficient cancellation or ticket modification processes. Additionally, bus operators struggle with managing reservations, updating schedules, and maintaining an organized system for ticket sales and passenger records.
- The **Bus Reservation System** aims to address these issues by developing an efficient, user-friendly, and fully computerized solution. The system will allow users to view bus schedules, book tickets, cancel or modify reservations, and track their bus details online.



SOLUTION

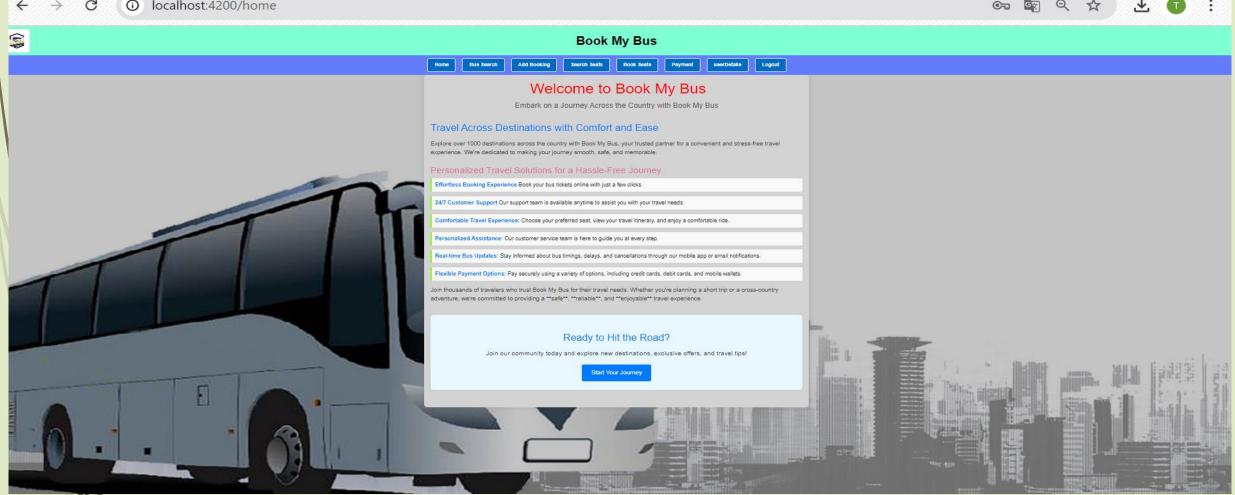
- The Bus Reservation System will be an integrated, web-based application that provides a comprehensive solution for booking and managing bus tickets. The proposed system will have two main interfaces: one for customers and one for administrators (bus operators).
- This solution will not only improve the user experience for customers but also help bus operators streamline operations and improve profitability. The Bus Reservation System will offer flexibility, efficiency, and transparency, addressing the main pain points in the traditional bus booking process.



PROJECT OUTLOOK

HOME PAGE

← → C ① localhost:4200/home



ABOUT US PAGE



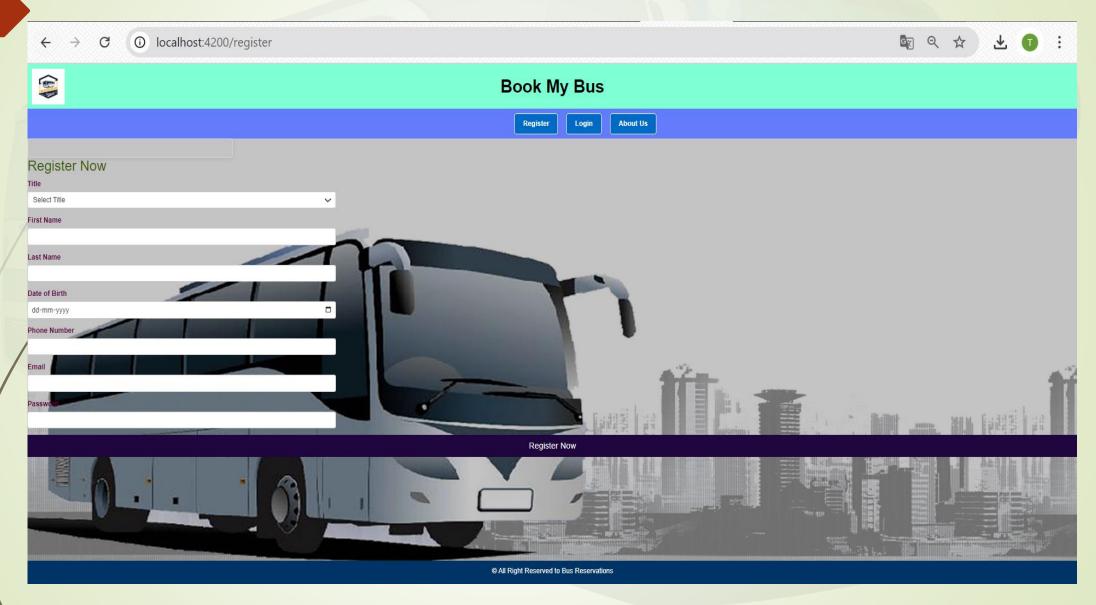
Book My Bus



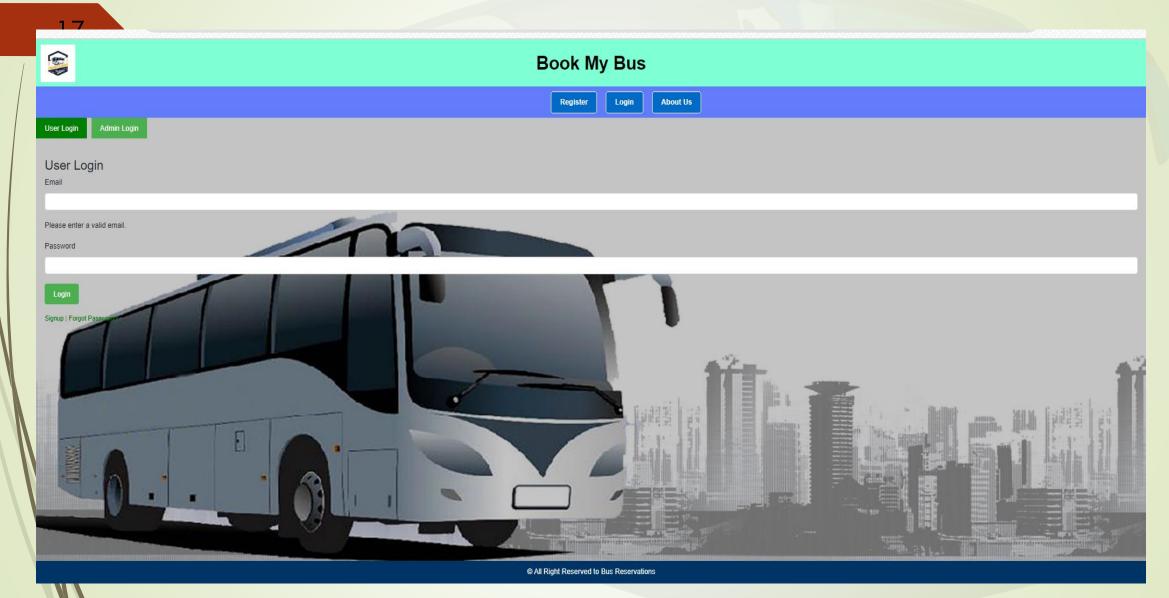


NEW CUSTOMER REGISTRATION

16



USER LOGIN





ADMIN LOGIN

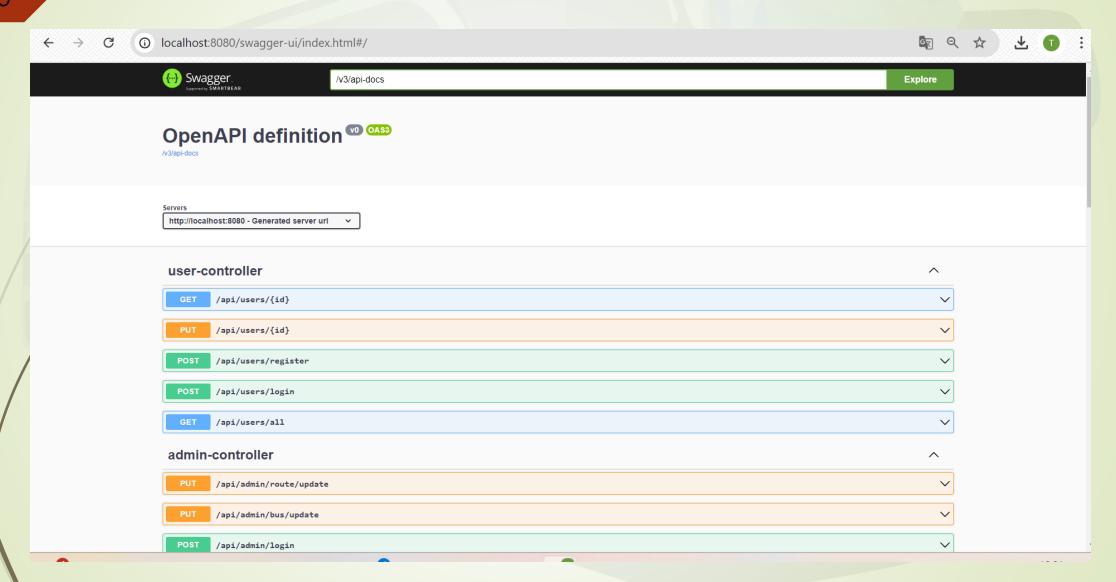
(I) **Book My Bus** Login About Us Admin Login Admin Login Admin Username Admin Password @ All Right Reserved to Bus Reservations

Payment

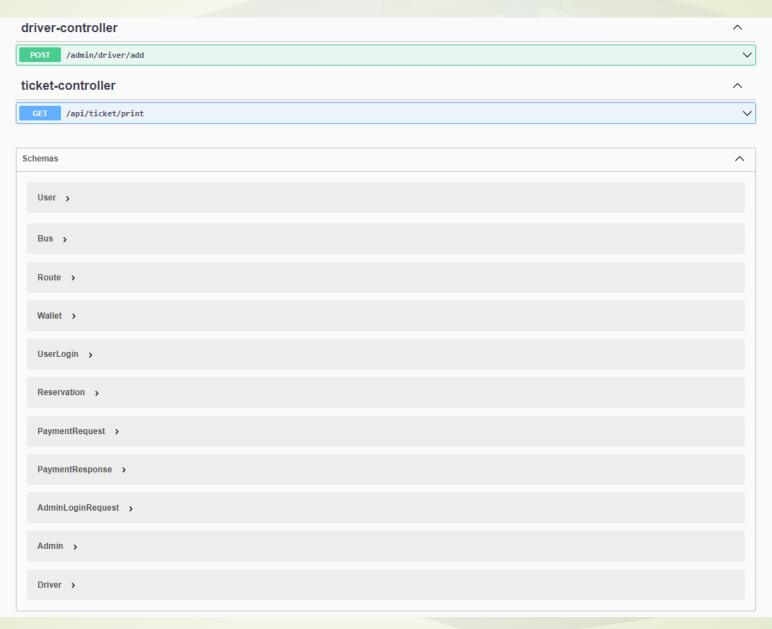
19 (i) localhost:4200/payment **Book My Bus** Home **Bus Search** Add Booking Search Seats **Book Seats** Payment userDetails Logout Payment Form Payment Type UPI UPI ID teja@UPI **Amount** 1000 Pay Payment Response Success: true Message: UPI Payment successful. Transaction ID: a980c40b-9827-4ef6-9ce8-7500815fd401 © All Right Reserved to Bus Reservations

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Swagger







CONCLUSION

- This project is designed to meet the requirements of a bus reservation system.
- We have designed the project to provide the user with an easy way to search, book tickets and other actions.
- In this project user is provided with a website that can be used for bus reservation.
- To implement this we have used Spring Boot as back end and Angular as front end.
 This website allows users to view bus details and to reserve, view by logging in or registering with a new account.
- Admin is provided with rights to add bus, delete bus, update bus and other functionalities.



Real-Time Bus Tracking:

Integrate a GPS system to allow users to track the location of the bus in real-time. This feature enhances the travel experience and improves safety by keeping passengers informed about the bus's whereabouts.

Group Booking Functionality:

Add support for group bookings, where users can book multiple tickets at once for events, family trips, or corporate travel, possibly with discounts for large groups.

24/7 Customer Support Chatbot:

- Add a chatbot integrated with AI to assist users with booking inquiries, cancellations, or route details without human intervention.
- This improves user experience by providing instant support.





