Bus Scheduling And Booking System Development

ELF / HTD Training Programs

Java Full Stack – Use Cases

TESTYANTRA Software Solutions

1. INTRODUCTION

This document outlines the Project. The project is to develop a Bus Scheduling and Booking System. This document contains the work flow of the system and gives guidelines on how to build the functionality gradually in each of the course modules.

2. PROBLEM STATEMENT

2.1 Objective

Develop a Bus Scheduling and Booking System.

2.2 ABSTRACT OF THE PROJECT

Travel industry is evolving day to day. As the industry evolves the need to digitalize all the transactions becomes need of the hour. This project which is implemented on Java platform helps to manage bus scheduling and bookings. This software is a globally deployable, integrated, workflow based end-to-end system starting from searching bus routes to book them online.

2.3 FUNCTIONAL COMPONENTS OF THE PROJECT

Bus scheduling and booking system is a web based application which is connected to a complete database. The database includes information about buses, no. of seats available, occupancy, availability, days and time of operation, no. of buses from point 'A' to point 'B', Price ranges, automated report and bill generation etc.

The database is updated time to time and a user can reserve his ticket from any part of the world and any time. The application gives utmost importance to security and usability. This application is divided into following modules

- Admin Module
- Users Module

2.3.1 Admin Module

This module deals with addition and deletion of routes, buses available, pick up points, dropping points, bus codes, passenger details and bus details. He has the complete control over the application. Only admin can perform these functionalities.

2.3.2 Users Module

The following functionalities are included in this module

- Register
- Login
- Search routes
- Select bus
- Select seats and pick up points
- Provide information and payment gateway
- Cancel the ticket
- User suggestions/complaints

3. TECNOLOGY TO USE

Front End Technology	Angular 8.x
Back End Technology	Springboot 2.2.2, Hibernate with JPA 5.x
Server	Apache Tomcat 8.5
Database	MySQL 5.5