6. Railway Reservation System

Problem Statement: the goal of railway system is to provide a secure, efficient and reliable platform for booking and management of train-tickets. This system should be able to handle the entire booking process, from ticket reservation & cancellation and refund. System should also provide features for tracking the availability of seats, scheduling and rescheduling.

SRS

1. Introduction

1.1 Purpose: To define the functional and non-functional requirement defined for effective maintainance of the reservation system. It serves as an outline to improve the operation of the system for future needs.

1.2. Scope: Overall working to ensure the smooth working of the system with keeping security and privacy in mind.

1.3 Overview: Application is developed to optimize the railway reservations so that the process can take place more efficiently and improve the guest satisfaction and increased revenue.

2. General description

Helps manage and automate the process of reservation in railways. Operations like bookings, cancelling, staff managements, etc will be provided. It provides features for booking train tickets, check schedules, and reduce queues at station

It allows ~~train~~ user to search for trains by entering their arival & departure time, routes, and fares. It allows to cancel and modify the reservations.

3. Functional Requirement

- Ticket booking: system should allow user to search and book tickets
- Seat selection should be provided
- Payment processing: system should allow user to make payments.
- Ticket cancellation and Refund: should allow user to cancel their tickets and get the refund.
- Train route information should be provided
- Fair information, Reservation confirmation user account, etc

4. Interface Requirement

- The system should have a user friendly interface for easy navigation and use.
- Mobile Responsive: The system should be mobile responsive.

- Multilingual support should be provided keeping different users in mind.
- Consistent layout across all pages.
- Interactive Maps, search & filter option, etc should also be provided.

5. Performance Requirements

- The system should be able to respond quickly to user's request.
- System should be able to handle a large no. of users simultaneously.
- Availability: should be available 24×7
- ~~System should have robust security.~~
- System should have to robust security measures to protect user data.
- Data Backup: should regularly back up user data to prevent any
- Load testing, Performance Monitoring, Compliance

6. Design Constraint

- Hardware constraints: system has to be neatly integrated ~~without~~ within the already set up infrastructure.
- Software limitations: constraints on amount of data that can be processed and. short
- Time constraint: can't take multiple years to develop / implement
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7. Non-functional Requirements:

- Usability: system should be designed to be easy in use and intuitive.
- System should be accessible to users
- Should have robust security measures in place to protect user data
- It should be available 24 X 7
- The system should perform well under all conditions
- System should be maintainable and easily updatable.

8. Schedule and Budget:

Planning :
Development :
Testing :
Deployment :

Hardware : £300,000