

## 6) Railway Reservation System

### A) Problem Statement.

The Railway Reservation System aims to automate the ticket booking process for passengers, reduce the burden of manual ticketing and improve the overall efficiency of the railway system.

### B) SRS

#### 1) Introduction:

Purpose: To outline the requirements and specifications for railway reservation system.

Scope: To describe the functional features of booking and cancelling of tickets, train scheduling and seat availability.

Overview: Online platform that allows passengers to book tickets and check for available seats.

#### 2) General description.

- The system aims to provide a user-friendly platform for passengers to book and cancel tickets, view train schedules and seat availability.

#### 3) Functional requirements.

- Allow passengers to book and cancel tickets.
- View train schedules and check for seat availability.
- Provide realtime updates on train status, arrival and departure times.

- Generate electronic tickets that can be downloaded or printed by passengers.
- Cater to the needs of all passengers, including frequent travellers and tourists.

#### 4) Interface requirements.

- User friendly interface that allows passengers to easily navigate through the booking process.
- Support multiple languages and be accessible from different systems.

#### 5) Performance requirements.

- Handle large volume of users and transactions simultaneously.
- Generate tickets quickly and efficiently with minimal downtime.

#### 6) Design constraints.

- System should be designed using industry standard programming languages.
- Compatible with all OS.
- Scalable and handle future upgrades.

#### 7) Non-functional attributes.

- Available 24/7 and support help desk.
- System should be secure, reliable and maintain data integrity.
- High volume of transactions and handle user simultaneously.