6. Railway Reservation System.

Problem Statement

The railway reservation system facilitates the reservation of railway tickets for railway customers.

SRS

1. Introduction
   1.1. To design the functional and non-functional requirements for the railway reservation system.
   1.2. Ensuring the system is fast, robust and reliable.
   1.3. Ensuring all the payment passes through successfully.

2. General discription
   The railway customers are the main users of this system of reservation of tickets. Providing the travellers with a fast, robust and reliable platform for its reservation of railway tickets.

3. Functional requirements
   * Transparency of the system.
   * Ensuring the databases are consistent.
   * Ensuring quick refund in case of any issues.
   * Integration with existing reservation system.

4. Interface requirements
   * Integration of the railway reservation System with the existing system.
   * Integration of system with payment gateway to make easy payment.
   * Providing a user-friendly experience of to the travellers and other stakeholders.

5. Performance requirements
* The reservation should be confirmed in 2 seconds.
* The confirmation email should be sent in 5 seconds.
* System should be able to handle large amounts of travellers at peak periods.

6. Design constraints
* The system should not have a complex structure.
* The security should have incorporated security systems.
* The system should not take more than 1 second response time.

7. Non-functional requirements
* The system should be completely automated.
* The payment system of the reservation system should be transparent
* The personal data of the travellers should not be leaked.

8. Preliminary budget and schedule.
* Planning: 10 days
* Development: 3 months
* Testing: 1 month
* Deployment: 15 days
* Hardware: $600,000
* Staff: $200,000.