*   Railway Reservation System:

*   Problem statement :

       A railway management system aims to develop software that effectively manages various aspects of an operation such as check availability, cancel & book tickets, make payments etc.

*   SRS

1.   Introduction

- To clearly define functional and non functional requirements by ensuring effective reservation system.
- Provides quality service that ensures better user experience.
- Development time depends on how complex the management system is and the size of system.
- SRS contains functional requirements, general description, non functional requirements, interface and design constraints.

2.   General description:

       Help users to effectively manage railway ticket reservations. Features are: check price, check seat availability, reserve seats, book seats etc. User community would include customers, IT professionals and maintenance team.

3.   Functional requirements :

- Making sure that the seats can be booked easily.
- checking availability of seats.
- Providing secure and fast payment gateway.

Interface requirements:

4.

- User friendly interface with simple steps to make ticket reservations.
- Making it easily accessible by integrating with multiple platforms such as mobile phones, laptops, tablets etc.

Performance requirements:

5.

- User requests have to be accomplished in a short period of time.
- should be able to handle multiple users simultaneously.
- User details should be secure and free from cyber attacks.
- Payment gateways must be fast and reliable.

6. Design Constraints:

- Constraints on the amount of data that be stored and processed at a time.
- Constraint on the number of users who can access the system without any errors or lags.
- Cannot take multiple years to develop & implement.

7. Non functional attributes:

- Has to work on different platforms such as tablets, laptops, mobiles etc.
- Has to be compatible with the already existing software that the railways uses.
- Ensure that data leak does not occur.

8. **Preliminary Schedule and budget:**

- Planning: 3 months
- Development Phase: 6 months
- Testing: 2 months
- Hardware: $10,000 – $20,000
- Training: $10,000
- Personnel: $5,000