**SRS**

Online Railway Reservation System

**Table of Contents**

1. **INTRODUCTION** 
   1. Objective
   2. Scope
   3. Glossary
   4. Overview
2. **OVERALL DESCRIPTION**
   1. Product Perspective
   2. Product Functions
   3. User Characteristics
   4. Constrains
   5. Assumptions and Dependencies
   6. Apportioning of requirements
3. **REQUIRMENT SPECIFICATION**
   1. Function Requirements
      1. Performance Requirements
      2. Design Constraints
      3. Hardware Requirements
      4. Software Requirements
      5. Other Requirements
4. **DIAGRAM**
   1. Use Case Diagram
   2. Class Diagram
   3. State Diagram
   4. Sequence Diagram
   5. Data flow Diagram

**1.Introduction**

The introduction of the Software Requirements Specification (SRS) provides an overview of the entire SRS purpose,scope, definitions, acronyms, abbreviations, references and overview of SRS.A **Software Requirements Specification** (**SRS**) - a requirements specification for a softwaresystem - is a complete description of the behaviour of a system to be developed. It includes aset of use cases that describe all the interactions the users will have with the software. Usecases are also known as functional requirements. In addition to use cases, the SRS alsocontains non-functional (or supplementary) requirements. Non-functional requirements arerequirements which impose constraints on the design or implementation (such asperformance engineering requirements, quality standards, or design constraints).The aim of this document is to gather and analyse and give an in-depth insight of the complete Marvel Electronics and Home Entertainment software system by defining the problem statement in detail. This is a documentation of the project **Railways Reservation System** done sincerely and satisfactorily by my group members. A Software has to be developed for automating the manual Railway Reservation System.

* RESERVE SEATS – Reservation form has to be filled by passenger. If seats are available entries like train name, number, destination are made.
* CANCEL RESERVATION- The clerk deletes the entry in the System and changes in the Reservation Status.
* VIEW RESERVATION STATUS-The user need to enter the PIN number printed on ticket.

1.1 Objective:

The purpose of this source is to describe the railway reservation systemwhich provides the train timing details, reservation, billing and cancellation on various typesof reservation namely,

• Confirm Reservation for confirm Seat.

• Reservation against Cancellation.

• Waiting list Reservation.

• Online Reservation.

• Tatkal Reservation.

The origin of most software systems is in the need of a client, who either wants to automate the existing manual system or desires a new software system. The software system is itself created by the developer. Finally, the end user will use the completed system. Thus, there are three major parties interested in a new system: the client, the user, and the developer. Somehow the requirements for the system that will satisfy the needs of the clients and the concerns of the users have to be communicated to the developer. The problem is that the client doesn’t usually design the software or the software development process and the developer does not understand the client’s problem and the application area. This causes a communication gap between the parties involved in the development of the project.

The basic purpose of Software Requirement Specification (SRS) is to bridge this communication gap. SRS is the medium through which the client’s and the user’s needs are accurately specified; indeed SRS forms the basis of software development.

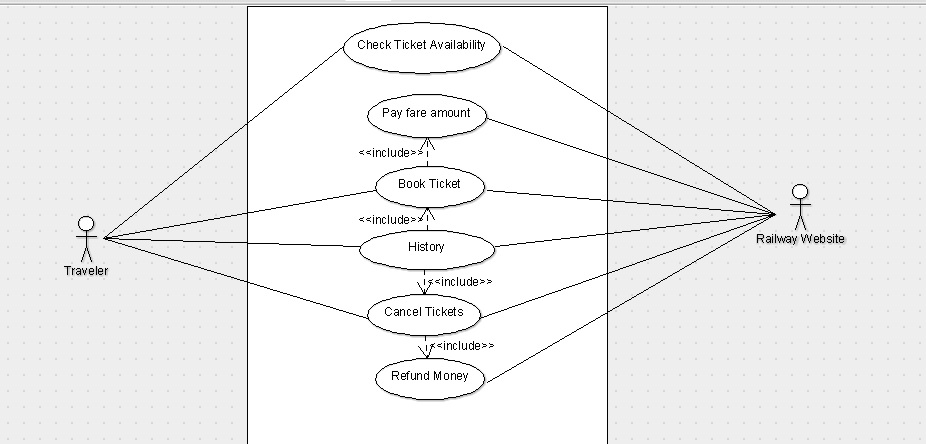
Another important purpose of developing an SRS is helping the clients understanding their own needs. An SRS establishes the basis for agreement between the client and the supplier on what the software product will do.

An SRS provides a reference for validation of the final product.A high quality SRS is a prerequisite to high quality software and it also reduces the development cost.

A few factors that direct us to develop a new system are given below -:

1. Faster System
2. Accuracy
3. Reliability
4. Informative
5. Reservations and cancellations from anywhere to any place

Use-case Diagram



Class Diagram

