**Project need, purpose, requirements & basic functionalities**

**Project Title : Railway Reservation System**

* Prerequisites
* Purpose
* Scope
* Requirement
  + Interface Requirements
  + User Requirements
  + Hardware Requirements
  + Software Requirements
  + Database Requirements
* Product description
* Product functionalities
* Users

**Prerequisites:**

Gain basic theoretical knowledge of project functionalities by gathering information via INTERNET.

**Purpose:**

The purpose of Railway Reservation System is to create reservation, cancel reservation, viewing train schedules, viewing reservation details, Updating Train Information, updating reservation details and generate reports.

**Scope:**

Clerk is someone who handles reservation and cancellations by accessing the portal and Manager is someone who updates the information about trains. The system can handle only reservation and train details efficiently. The main purpose is:

* Make Reservations
* Cancel reservation
* View reservation status
* View train status
* Update train schedule
* Update reservation details
* Generate reports
* Some constraint (the seats of reservation can’t be more than the seats of a train at specific date)

**Requirements:**

The requirements of this project have been categorized into different sections:

* Interface requirement:

The interface requirement of railway reservation system includes:

* User friendly
* Less Graphics
* Dialogue Box
* Security
* User requirements:
* Login Information
* Reservation details
* Travel details/ Train details
* Hardware Requirements:
* 128MB RAM
* 40 GB HDD
* Printer
* Lan cable
* Software requirements
* Windows 2000 OS
* SQL
* Database Requirements:
* Passenger Details
* Reservation details
* Travel details/ Train details

**Product description:**

The clerk gets the details from the passengers and runs a check whether seats are available or not. If the seats are available, then the seat is allocated to the passenger if not the passenger is placed under ‘Waiting List’.

The clerk gets the details from the passenger to cancel the reservation and updates the list as well. If there is any passenger in the waiting list, then that passenger is upgraded to reserved list. The clerk also informs the waiting list passenger about their current status of booking.

The manger updates the train information and he generate the report of the train reservation department.

**Product functionalities:**

* The reservation clerk takes the detail from the passenger.
* The reservation clerk checks whether the seats are remaining or not.
* If seats are not available, than he place the reservation in waiting list.
* Reservation clerk cancels the reservation and update the reservation details.
* The manager updates the train information and generates the report.

**Users:**

* Clerk:

This person uses the system to reserve tickets and cancel reservations, view reservations, status, view reservations, update reservation details, view train schedule.

* Manager:

This person uses this system to update train information and to generate reports.

* Passenger:

These people can access the system to book and cancel the reservations and they can be further divided into two categories

* Physically abled
* Physically disabled

They have different privileges based on their physical condition.

**Reference:**

http://mca.ignougroup.com/2016/11/srs-of-railway-reservation-system.html