

**Project Report**

**Railway Management System**

**Course:** CSE 107

**Section:** 01

**Submitted to:**

**Riddho Ridwanul Haque**

**Lecturer**

**East West University**

**Submitted by:**

Sofiul Azam Sony

2016-2-60-050

Moni Kishore Dhar

2016-2-60-099

Md Mahmudul Haq

2016-2-60-031

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**Description:**

The project “Railway Management System” introduces a simple console application, built without the use of any graphics. This project is done using c++ language; implementing object-oriented programming and other c++ features. The perspective of this project is able to get more familiar with solving real life problems.

This program features modes such as password protection and some basic file handling operations to add and display train inquiry and reservation records. The purpose of this particular project is to create digital reservation system so that manual workload could be reduced.

**Features:**

**1.Administrator mode:**

The program is made for two modes- the administrator mode and the user mode. When a user is created, he can add train as well he will be able to schedule the train. The operations for both these modes are very similar in this project. In this mode, we can create detail database, add details, perform user management functions, display train and passenger details.

**2.User mode:**

User can sign up and login on their own. This information is saved in files to further use. After having user id and password, one can the detailed reservation information as train information, buy & cancel ticket and ticket information.

**3.Train and Reservation details:**

In this project, users can get both train and reservation details. The details to be provided for train are: Train No, Train Name, From, To, Departure time, Arrival Time and Off day. For the reservations there is Buy Ticket. Here is the information of which train to choose, which date to choose, which compartment to choose, which seat to choose and seat fare.

**4.Cancel Reservation:**

In this project one can cancel their reservation through Cancel Ticket. Here the buoying information of the particular user is shown for trains such: Train No, Train Name, From, To, Departure time, Arrival Time. This feature requires the selection of Ticket No. Upon selecting the number, the reservation gets canceled.

**5.Password:**

This railway management system project requires the administration password to access the administration mode. User name is” Admin” and the password is”123”. If we enter the wrong password, it displays the massage – “Wrong Password”.

**Header Files Used:**

To make the project simple, graphics.h header file has not been used in this project. List below are the header files required to run this project.

#include <bits/stdc++.h>

#include <fstream.h>

To implement this simple case study, some assumptions have been made, which are as follows:

1.A user can buy only next day or above tickets; present day reservation is not allowed.

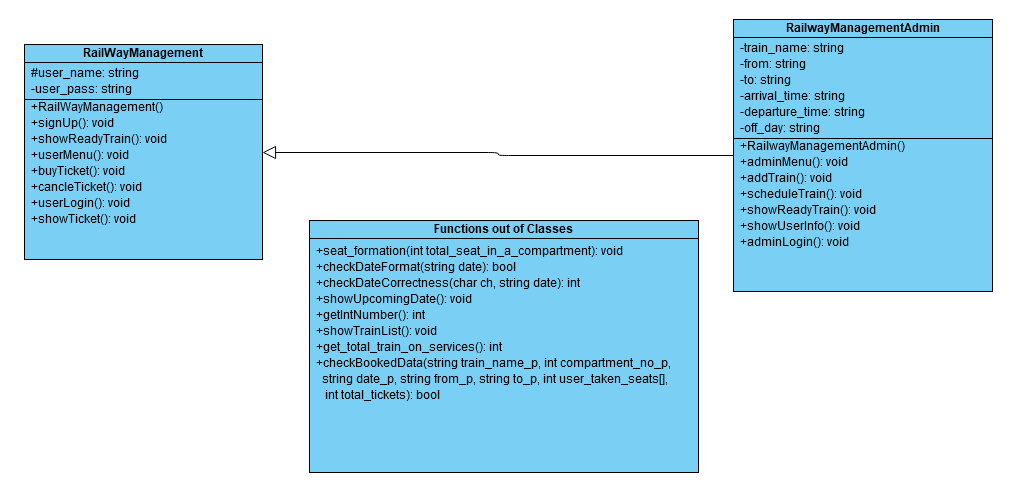
2.Booking is open for next seven days only.

3.A single user cannot buy more than 4 tickets.

4.A user can select the preferred compartment and seat (if available).

To sum up, this project helped us to learn proper use of object-oriented programming, file handling with multiple modes and other features in c++. We would like to make the code more efficient and user friendly and will also work on graphics in the near future.

**Class Diagram**

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