

# ***TEST PLAN***

## **Author**

Viranchi Badheka [ 15IT111 ]

## **Versions**

Railway Reservation System 1.0

## **Modules**

User  
Admin  
Directory

## **Scope and Objectives**

The scope of this software extends to any person to book any number of tickets in an efficient manner.

The Test Plan document is aimed at determining any loopholes, bugs or crashes that may generate from the system software and contains a set of test cases to analyze the functionality and performance of the product.

## **Entry/Exit Sections**

Entry criteria -

The executable file of the software must be available.  
C++ Unit Testing module must be present.  
The g++ compiler must be present on the operating device.

Exit criteria -

All test cases must produce output as expected from the software functionality.

## TEST CASES

ID	TC_1
Module	User
Purpose	To add a new user to the directory. Check whether the entered id already exists or not.
Steps	1. Enter name, password, DOB. 2. Display directory to view
Expected Output	User details appear in the directory.
Test Result	Pass

ID	TC_2
Module	Admin
Purpose	To enter another record in the trains catalog.
Steps	1. Login with the admin credentials. 2. Enter the starting point and the destination of the journey 3. Enter total no. of stations, available seats and the fares of each train.
Expected Output	The details of the trains are added in the database file.
Test Result	Pass

ID	TC_3
Module	Admin
Purpose	To check whether the entered id and password is of the admin, if not then display an error message.
Steps	1. Enter id and password 2. If id is not 'viranchi' and password is not '12345678' then display the error message else continue.
Expected Output	An option of adding a new record of trains in the catalog.
Test Result	Pass

ID	TC_4
Module	User
Purpose	Login as an existing user
Steps	1.Enter the user id and password, if the id and password matches with any of the users in the users file then continue else display an error message.
Expected Output	A welcome message from the system.
Test Result	Pass

ID	TC_5
Module	User
Purpose	To check the availability of the trains
Steps	1. Enter the start and destination point of the journey.
Expected Output	Enter the details of the trains with the entered start and the destination point.
Test Result	Pass

ID	TC_6
Module	User
Purpose	To check whether the required number of seats are available.
Steps	1. Enter the desired class from the available choices- sleeper,3AC,2AC. 2. Enter the required number seats .
Expected Output	If the required number seats exceed the available seats then display an error message else continue.
Test Result	Pass

ID	TC_7
Module	User
Purpose	Pay for the number of tickets registered.
Steps	<ol style="list-style-type: none"> <li>1. Enter the user details- name,age,sex</li> <li>2. Select one of the available payment options- net banking or debit card.</li> <li>3. Enter userid and pin number.</li> </ol>
Expected Output	If the pin doesn't match then display an error message else display 'Payment successful'.
Test Result	Pass