# TEST PLAN

## Introduction

Test plan is designed to identify the items and features to be tested. The type of testing to be done for the bus reservation system is described below.

## Test Strategy

### **Scope of Testing**

#### Features to be tested

|  |  |
| --- | --- |
| **Module Name** | **Description** |
| Register | A new user can register to system by providing details |
| Login | Existing users can login to the system. |
| Bus List | User can view the List of Busses. |
| Status Board | The user can view the current status of the bus.  It also shows the seats that have been already reserved. |
| Booking | User can book as many desired seats from the available ones. The total cost will be displayed at the end of the booking. |
| Cancel | User can choose to cancel the previously reserved ticket.  Refund will be initiated and the refund amount will be displayed. |
| View Bookings | User can view the reserved seats by checking the status board. |

#### Features not to be tested

The features that are not to be tested are:

* User Interfaces
* Hardware interfaces

### **Test Type**

Three types of testing are to be done for the movie booking system:

1. **Unit Testing**: In this testing each individual module of the system is tested to ensure that            they are fit to use.
2. **Integration Testing:** Here the modules are integrated together and tested as a group.
3. **System Testing:** Conducted on a complete, integrated system to evaluate systems compliance with its specific requirements.

## Test Objective

The test objectives are to verify the functionality of the bus reservation system. The focus is to be given on testing the functionalities such as Reserving Seats, Displaying Total, Viewing Reserved Seats in the status board ..etc to make sure these functions are working efficiently.

## Test Criteria

### **Suspension Criteria**

If more than 50% of the test cases fail, the test is suspended until all the failed cases are fixed.

### **Exit Criteria**

Specifies the criteria that denotes a successful completion of a test phase

* Run rate is mandatory to be 100% until a clear reason is specified
* Pass rate is 90%

## Test Environment

All the tests are carried out in the CodeBlocks IDE and Cunit.