**Test Plan for Theatre Booking Reservation System**

**Objectives**

Verifying ability of users to view programs, book seats, and cancel their booking

Validating calculations based on seating location and concession rates

Ensuring functionality of admin panel(adding event, cancelling event, sending email)

Confirming loyalty card benefits

**Test Scope**

Used Features

* Registration and login
* Viewing events program
* Seat selection and booking
* Ticket pricing
* Booking cancelation
* Admin Features:
* Adding event
* Cancelling event
* Sending event wide email

Excluded Features

* Non-functional requirements

**Test approach**

For this project, we have decided on black-box testing approach. The system will be tested without code inspection

**Techniques**

Decision Table testing: Testing the logic behind seating calculation and concessions

Partitioning: Grouping input data to minimise test cases

**Test cases**

### **User Functionality**

| **Test ID** | **Test Scenario** | **Test Steps** | **Expected Result** |
| --- | --- | --- | --- |
| TC-01 | User Login (Valid) | 1. Enter valid email/password.  2. Click "Login". | Successful login with redirection to login page |
| TC-02 | User Login (Invalid) | 1. Enter invalid email/password.  2. Click "Login". | Error message is displayed |
| TC-03 | View Events | 1. Login.  2. Enter the Events page. | List of upcoming events is displayed with their info |
| TC-04 | Book a Seat (Available) | 1. Select an event.  2. Choose available seats.  3. Confirm booking. | Seats are successfully booked, and confirmation is shown. |
| TC-05 | Book a Seat (Unavailable) | 1. Select an event.  2. Attempt to book already booked seats. | Error message is displayed |
| TC-06 | Calculate Price (Matinee + Stall) | 1. Select matinee event.  2. Choose a seat in "Stalls Row A - M".  3. Confirm booking. | Price displayed is 150% of the base price. |
| TC-07 | Cancel Booking | 1. Login.  2. Navigate to "Bookings".  3. Select cancel button of a booking.  4. Confirm. | The confirmation message is shown and the booking is no longer in booked section. |

### **Admin Functionality**

| **Test ID** | **Test Scenario** | **Test Steps** | **Expected Result** |
| --- | --- | --- | --- |
| TC-08 | Add Event | 1. Login as admin.  2. Navigate to "Manage Events".  3. Add event details.  4. Save. | Event is added successfully and it is visible on the events page. |
| TC-09 | Cancel Event | 1. Login as admin.  2. Navigate to "Manage Events".  3. Select an event to cancel.  4. Confirm. | Event is canceled successfully, and no longer visible on the events page. |
| TC-10 | Send Event Email | 1. Login as admin.  2. Navigate to "Manage Emails".  3. Compose and send an email for an event. | Email is successfully sent to all registered users. |

### **Loyalty Card**

| **Test ID** | **Test Scenario** | **Test Steps** | **Expected Result** |
| --- | --- | --- | --- |
| TC-11 | Add Loyalty Card | 1-Go to Loyalty Card Addition page  2-Enter invalid loyalty card Serial  3-Enter valid loyalty card serial | First and error should be shown  Then a success image with user status changing to loyalty card |
| TC-12 | Apply Loyalty Discount | 1. Login with the user.  2. Book a seat.  3. Check the final price. | Price is reduced by 10%. |
| TC-13 | Early Seat Reservation (Loyalty) | 1. Login with a loyalty card user.  2. View events at most a week before the public release date.  3. Book a seat. | Booking is successful before the official release date. |