

SOFTWARE ENGINEERING TESTING

BUS BOOKING SYSTEM

Test Case 1:

Test Focus: Login Functionality

Test Description: To test the login functionality of the customer/admin who tries to login.

Pre and Post Conditions: Registration is required

Test Steps:

1. Run the project
2. Click on Administrator to “Log In” as an admin, click on Customer to login as a customer.
3. Enter the username
4. Enter the password
5. Click on Login

S. No	Test Data	Expected Result	Actual Result	Test Result
1	Correct username, correct password	Login	Login	Pass
2	Correct username, wrong password	User can't login	User can't login	Pass
3	Wrong username, correct password	User can't login	User can't login	Pass
4	Wrong username, wrong password	User can't login	User can't login	Pass
5	Empty fields	User can't login	User can't login	Pass

Test Case 2:

Test Focus: Register Functionality

Test Description: To test the register functionality for new customers

Pre and Post Conditions: Null

Test Steps:

1. Run the project
2. Click on Customer button to register as a customer
3. Click on “Sign up” button on Customer homepage
4. Enter the name
5. Enter the sex
6. Enter the address
7. Enter the password
8. Enter e-mail

9. Enter mobile number
10. Click on register button

S. No	Test Data	Expected Result	Actual Result	Test Result
1	Display without filling fields	Can't display as fields are empty	Can't display as fields are empty	Pass
2	Display with all fields filled	Display customer details	Display customer details	Pass
3	Reset button	Clear fields	Clear fields	Pass
4	Register with empty fields	Fill all required fields	Fill all required fields	Pass
5	Register with all fields	Registered	Registered	Pass
6	Register with same mailId again	Already registered	Registered	Fail

Test Case 3:

Test Focus: Book Tickets Functionality

Test Description: To test the booking of tickets by customers

Pre and Post Conditions: Login by customer

Test Steps:

1. Run the project
2. Click on Customer button on Main login page
3. Click on "Log In" on the Customer homepage
4. Enter the username
5. Enter the password
6. Click on Login
7. Click on Book ticket
8. Click on "Book" for booking ticket
9. Enter source, destination
10. Enter number of seats to be booked
11. Enter date and bus type
12. Click on Book button

S. No	Test Data	Expected Result	Actual Result	Test Result
1	Click on "View bookings"	The tickets booked appear in the list	The tickets booked appear in the list	Pass

2	Click on “View bus details”	All the existing bus routes will be displayed	All the existing bus route details will be displayed	Pass
3	Click on “Book”	Bus ticket booked is displayed if all	Bus ticket booked is displayed if all	Pass
4	Enter route that doesn’t exist	Route doesn’t exist	Route doesn’t exist	Pass
5	Number of seats entered is greater than available seats	Ticket can’t be booked	Ticket can’t be booked	Pass

Test Case 4:

Test Focus: Remove bus Functionality

Test Description: To test the removal of routes by the admin

Pre and Post Conditions: Login by admin

Test Steps:

1. Run the project
2. Login as an admin
3. Enter the username
4. Enter the password
5. Click on Login
6. Click on “Remove bus” on the Admin homepage
7. Enter the name of bus to be removed
9. Click on “Remove” button

S. No	Test Data	Expected Result	Actual Result	Test Result
1	Click on “View bus routes”	The existing routes appear in the list	The existing routes appear in the list	Pass
2	Admin clicks on “View all bookings” after removing bus	The route removed does not appear in the list	The route removed does not appear in the list	Pass
3	Admin tries to remove bus with booked seats	Bus cannot be removed	Bus cannot be removed	Pass
4	Admin gives name of bus that doesn’t exist	Route doesn’t exist must be displayed	Route doesn’t exist must be displayed	Pass
6	Admin clicks on reset	All the fields should become empty	All the fields should become empty	Pass
7	Admin clicks on back	Admin homepage should be displayed	Admin homepage should be displayed	Pass

8	Admin clicks on exit	Session terminates	Session terminates	Pass
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Test Case 5:

Test Focus: Add bus routes Functionality

Test Description: To test the adding of bus routes by the admin

Pre and Post Conditions: Login as admin

Test Steps:

1. Run the project
2. Login as an admin
3. Enter the username
4. Enter the password
5. Click on Login
6. Click on “Add bus routes” on the Admin homepage
7. Enter the source, destination
8. Enter the bus name, number of seats
9. Enter departure time, arrival time and bus type
10. Click on “Add” button

S. No	Test Data	Expected Result	Actual Result	Test Result
1	Admin tries to enter anything other than digits in the “number of seats” section	Does not accept, user must enter the route no again	Does not accept, user must enter the route no again	Pass
2	Admin views available routes to book	They can view the route added (if not added)	They can view the route added (if not added)	Pass
3	Admin clicks on reset	All the fields should become empty	All the fields should become empty	Pass
4	Admin clicks on back	Admin homepage should be displayed	Admin homepage should be displayed	Pass
5	Admin clicks on exit	Session terminates	Session terminates	Pass

Test Case 6:

Test Focus: Remove bus routes Functionality

Test Description: To test the removal of bus routes by the admin

Pre and Post Conditions: Login as admin

Test Steps:

1. Run the project
2. Login as an admin
3. Enter the username
4. Enter the password
5. Click on Login
6. Click on “Add bus routes” on the Admin homepage
7. Enter the source, destination
9. Click on “remove” button

S. No	Test Data	Expected Result	Actual Result	Test Result
1	Admin tries to enter any route that doesn't exist	Display, route doesn't exist	Display route doesn't exist	Pass
2	Admin removes existing route	Route removed from existing routes displayed	Route removed from existing routes displayed	Pass
3	Admin views available routes to remove	She can view the routes	She can view the routes	Pass
4	Admin clicks on reset	All the fields should become empty	All the fields should become empty	Pass
5	Admin clicks on back	Admin homepage should be displayed	Admin homepage should be displayed	Pass
6	Admin clicks on exit	Session terminates	Session terminates	Pass

Test Case 7:

Test Focus: View bus details Functionality

Test Description: To test the viewing of bus details by the admin

Pre and Post Conditions: Login by admin

Test Steps:

1. Run the project
2. Login as an admin
3. Enter the username
4. Enter the password
5. Click on Login
6. Click on “view bus details” on the Admin homepage

S. No	Test Data	Expected Result	Actual Result	Test Result
1	Bus details displayed	Existing bus details displayed	Existing bus details displayed	Pass

Test Case 8:

Test Focus: Confirm ticket

Test Description: To test the confirmation of ticket by the admin

Pre and Post Conditions: Login by admin

Test Steps:

1. Run the project
2. Login as an admin
3. Enter the username
4. Enter the password
5. Click on Login
6. Click on “Confirm and print ticket” on the Admin homepage
7. Enter ticket number to confirm
8. Click on confirm ticket

S. No	Test Data	Expected Result	Actual Result	Test Result
1	Admin tries to enter a ticket number that doesn't exist	Display, ticket number doesn't exist	Display, ticket number doesn't exist	Pass
2	Admin clicks on booking details	All tickets numbers against their names are displayed	All tickets numbers against their names are displayed	Pass
3	Click on confirm booking	Confirm ticket	Confirm ticket	Pass
4	Admin clicks on reset	All the fields should become empty	All the fields should become empty	Pass
5	Admin clicks on back	Admin homepage should be displayed	Admin homepage should be displayed	Pass
6	Admin clicks on exit	Session terminates	Session terminates	Pass

Test Case 9:

Test Focus: Print ticket Functionality

Test Description: To test the printing of tickets by the admin

Pre and Post Conditions: Login by admin

Test Steps:

1. Run the project
2. Login as an admin
3. Enter the username
4. Enter the password
5. Click on Login
6. Click on “Confirm and print ticket” on the Admin homepage
7. Enter ticket number to confirm
8. Click on confirm ticket
9. Click on print ticket and select yes.

S. No	Test Data	Expected Result	Actual Result	Test Result
1	Details of ticket confirmed are displayed	All details of ticket including ticket number are displayed	All details of ticket including ticket number are displayed	Pass