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Course Title: Software Engineering Lab

Lab Slot: L45 + L46

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Lab Assessment 4

## LAB ASSESSMENT 4

### Design Testcase design Template for a Realtime application

#### Real-Time Flight Booking System

Test Case ID: TC\_UI\_001

Test Priority: High

Module Name: User Authentication – Flight Booking

Test Designed By: John Doe

Test Designed Date: 12-03-2025

Test Executed By: Jane Smith

Test Execution Date: 12-03-2025

Test Title/Name: Verifying login page with valid username and password

Test Summary/Description: Ensure that the user is able to log in successfully with valid credentials.

#### Preconditions:

- User must have a registered account in the system.
- The internet connection must be stable.

#### Dependencies:

- The user database must be available and responsive.
- The authentication API should be working properly.

#### Test Steps:

Step No.	Action	Expected Outcome	Actual Outcome	Status (Pass/Fail)
1	Open the flight booking application	Application loads successfully	Application loaded	Pass
2	Navigate to the login page	Login page is displayed correctly	Login page displayed	Pass
3	Enter username: johndoe123 and password: Password@123	Credentials are accepted	Credentials accepted	Pass
4	Click the "Login" button	User is redirected to the dashboard	Redirected to dashboard	Pass
5	Verify that the user sees "Welcome, John Doe"	User dashboard displays welcome message	Welcome message displayed	Pass

#### Test Data:

Input Data	Expected Output	Actual Output
Username: johndoe123	Login successful	Login successful
Password: Password@123	Redirected to dashboard	Redirected to dashboard

#### Expected Result:

- The system should authenticate the user and redirect them to their dashboard.
- The user should see a welcome message: **"Welcome, John Doe."**

#### Actual Result:

- To be filled after execution.

#### Status (Pass/Fail):

- **Pass** if the actual output matches the expected result.
- **Fail** if login does not work correctly.

#### Notes/Comments/Questions:

- If the login fails, verify that the database connection is active.
- Ensure that the authentication server is not down.

#### Requirements:

- Requirement ID: **REQ-001** – User authentication must be implemented securely.
- Section 2.1 of the system requirement document specifies login behavior.

Attachments/References:

- Link to UI mockups: <https://flightbooking.com/mockups/login-page>
- Test script reference: test\_cases/login\_test\_script.xlsx

Post Conditions:

- The user should remain logged in unless they manually log out.
- If authentication fails, an appropriate error message should be displayed.