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# Course Title: Software Engineering Lab

# Lab Slot: L45 + L46

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# Lab Assessment 4

A close up of words

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**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.