

Master Test Plan (Updated for Sprint 2)

1. Objectives

The primary goals of this test plan are to:

- Validate the functionality and user interface of the **Flight Ticket Booking System** using automated tests.
- Implement a **UI Automation Framework** based on **Behavior-Driven Development (BDD)** and **Data-Driven Framework (DDF)** principles.
- Automate all previously defined **manual test cases** from Sprint 1 for regression testing.
- Ensure the automated test suite provides reliable and repeatable results for future sprints.

2. Scope of Testing

In-Scope:

- **UI Test Automation** for the Flight Ticket Booking System website.
 - Login functionality.
 - Ticket Booking module.
 - Flight Search module.
 - Enquiry module.
- **Testing Type:** UI Automation using Selenium WebDriver and BDD (Cucumber).
- **Validations:** Cover all UI validation scenarios listed in the case study, including field-level validations, success messages, and data display.
- **Framework Implementation:** Setup of a BDD + Selenium + DDF framework.

Out of Scope:

- API testing for the Flight Ticket Booking System.
- Manual test execution.
- Performance or security testing.

3. Roles and Responsibilities

- **Test Lead:** Aman Garg (Responsible for overall framework setup and test planning).
- **QA Team:**
 - Arghyadip Santra (Responsible for automating Ticket Booking and Enquiry modules).
 - Chirag Guruswamy (Responsible for automating Login and Flight Search modules).
 - Sakshi (Responsible for creating feature files and step definitions).

4. Test Environment

- **Web URL:** <https://webapps.tekstac.com/FlightBooking/login.html>
- **Browsers:** To be specified (e.g., Chrome, Firefox).
- **Login Credentials:**
 - **Username:** flightadmin
 - **Password:** flightadmin
- **Development Environment:** The framework will be developed and executed on local machines with necessary dependencies.

5. Tools

- **BDD Framework:** Cucumber
- **Automation Tool:** Selenium WebDriver
- **Build Tool:** Maven or Gradle
- **Reporting:** TestNG, Cucumber Reports
- **Test Data:** Excel or CSV files for Data-Driven Testing (DDF)
- **Project Management:** Jira

7. Entry and Exit Criteria

Entry Criteria:

- The Flight Ticket Booking System is deployed and accessible on the test environment.
- All required tools (Selenium, Cucumber, Maven, etc.) are installed and configured.
- All manual test cases from Sprint 1 have been reviewed and approved for automation.

Exit Criteria (Conditions to END testing):

- All manual test cases are converted into automated scripts.
- The automated test suite has been executed, and a TestNG HTML report has been generated.
- A Test Execution Report is created with pass/fail status and defect details.
- All critical defects found during automation have been reported in Jira.
- The **BDD+Selenium+DDF** framework is complete and documented.

8. Deliverables

The following documents and artifacts will be delivered upon completion of the Sprint 2 testing phase:

- **Product Backlog** (Updated with Sprint 2 tasks)
- **Sprint Backlog** (Specific to Sprint 2 automation)
- **BDD+Selenium Framework** (Source code)
- **Selenium Scripts**

- **TestNG HTML Reports**
- **Test Execution Report**
- **Defect Report**
- **Sprint Retrospective Notes**