

# BlazeDemo Automation Framework

## Project Overview

This project is a complete Selenium + Java + TestNG automation framework that automates the end-to-end purchase workflow of the BlazeDemo website using the Page Object Model (POM).

## Key Features

- Selenium WebDriver 4 with Java 11
- TestNG-based execution with DataProvider
- Page Object Model (POM) with reusable components
- WebDriverManager for automatic driver setup
- Custom TestNG Listener to handle "No Flights Available" scenarios
- Explicit waits implemented for stability and reliability

## Framework Structure

```
src/test/java/com/aagil/blazedemo/
  • base/ – Core driver and base classes
  • pages/ – All page object classes
  • listeners/ – Custom TestNG listener
  • tests/ – TestNG test classes
```

Additional Files:

```
src/test/resources/testng.xml
pom.xml
```

## Technology Stack

- Java 11
- Selenium 4
- TestNG
- WebDriverManager
- Maven

## How to Execute Tests

To run the full Test Suite:

**mvn clean test**

To run the Purchase Flow test only:

**mvn -Dtest=PurchaseFlowTest test**

Test execution results are stored in:

*target/surefire-reports/*

## Test Scenarios Covered

Five mandatory BlazeDemo booking scenarios are automated:

1. Boston → New York
2. Philadelphia → London
3. San Diego → New York
4. Portland → Berlin
5. Mexico City → Cairo

## Additional Notes

- ChromeDriver is auto-managed by WebDriverManager.
- No hardcoded waits — explicit waits ensure reliability.
- ThreadLocal WebDriver setup supports future parallel execution.
- Listener converts no-flight failures into skipped tests.