



Automated E-Commerce Testing

A robust Selenium & Java framework for DemoBlaze

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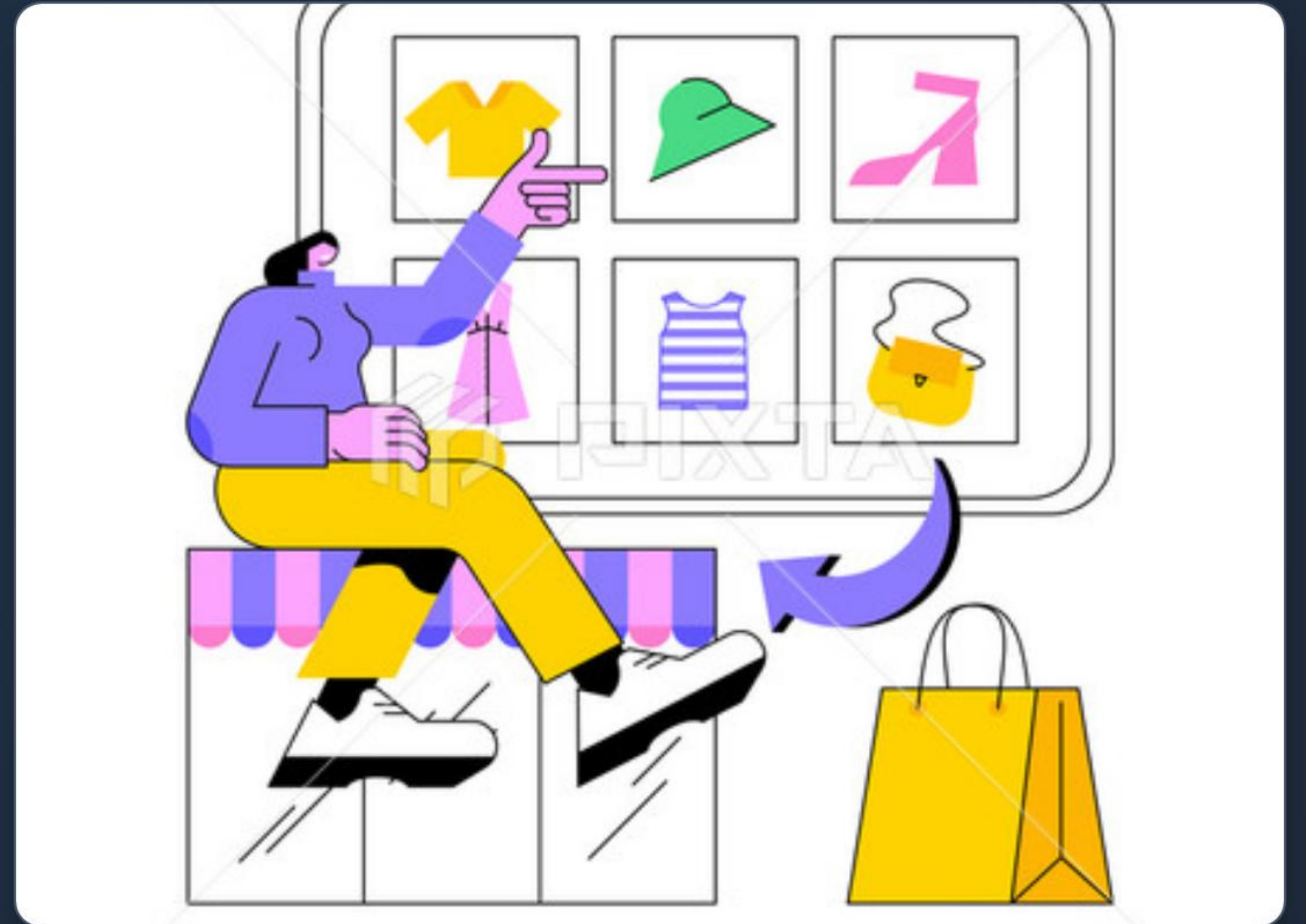
Project Overview

Objective

To develop a scalable, end-to-end automation suite for the **DemoBlaze** e-commerce platform.

Tech Stack

- > **Language:** Java (JDK 11+)
- > **Core Library:** Selenium WebDriver
- > **Framework:** TestNG for execution
- > **Build Tool:** Maven

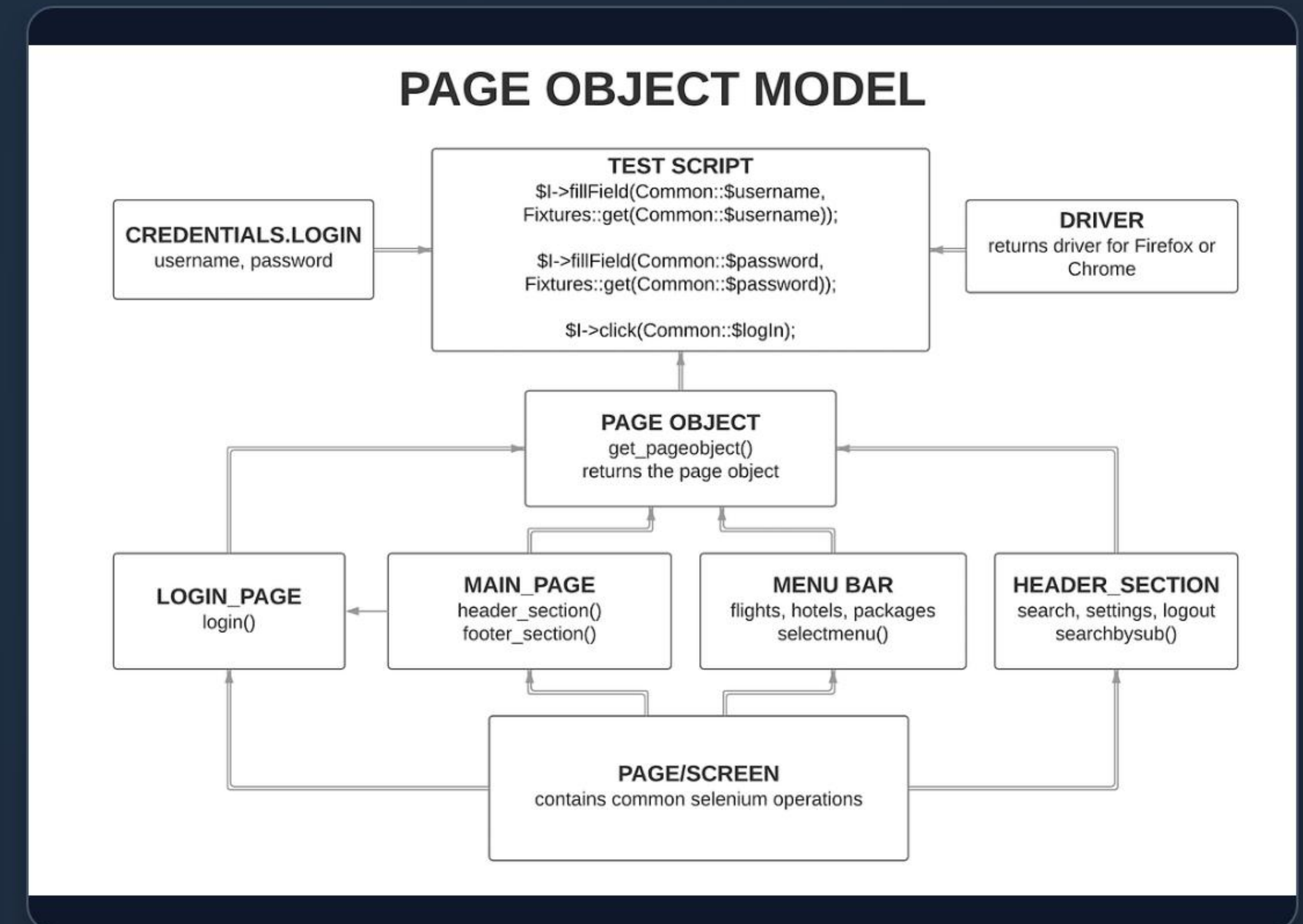


Framework Architecture

Page Object Model (POM)

The framework implements POM to separate test logic from UI elements, enhancing maintainability and readability.

- > **Pages:** Dedicated classes for UI interactions (e.g., `LoginPage.java`).
- > **Tests:** Assertions and workflow logic (e.g., `LoginTest.java`).
- > **Utilities:** Shared resources for WebDriver setup, waits, and configuration.



Coverage & Scope



Authentication

Validates login workflows using credentials `gasser / amr`.



Navigation & Discovery

Verifies product category filtering and product detail page rendering.



Cart Management

Ensures items can be added and removed from the shopping cart accurately.



Checkout Process

Executes the full purchase lifecycle through to order confirmation.

Execution Results

100%

Pass Rate

6 Passed / 0 Failed

40.6s

Execution Time

End-to-End Suite

Reporting

Actionable insights are generated automatically after every execution cycle.

TestNG Summaries

Detailed HTML & XML reports stored in `target/surefire-reports`.

Visual Debugging

Automatic screenshot capture triggers upon any test failure.

Extent Reports

Optional rich HTML dashboard for stakeholder visibility.



Future Roadmap



CI/CD Pipeline

Integration with Jenkins or GitHub Actions for nightly builds and continuous validation.



Data Driven

Externalize test data (Excel/JSON) to validate multiple product scenarios dynamically.



API Testing

Validate backend endpoints directly (RestAssured) for faster feedback loops.

Q & A

Thank you for your attention.

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Image Sources



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