



Test Automation: Automation Testing for an eCommerce Platform

Client

A mid-sized eCommerce company scaling its operations to handle high traffic and frequent sales campaigns.

Challenges

- ▶ Frequent updates to the website led to regression testing cycles that were slow and error-prone. Delays in identifying critical bugs during high-traffic events like flash sales. Manual testing was unable to keep up with the pace of development.

Solution

- ▶ Implemented an automation framework using **Selenium WebDriver** integrated with **TestNG** for test case management.
- ▶ Designed test scripts to automate regression testing for critical user journeys like search, add-to-cart, checkout, and payment processing.
- ▶ Integrated the framework into the client's CI/CD pipeline using **Jenkins** for automated test execution after each build.

Benefits

- ▶ Regression testing time reduced by 65%, enabling faster deployment cycles.
- ▶ Detected 30% more critical bugs before production releases, improving website stability.
- ▶ Achieved test coverage of over 90% for high-priority workflows.