

Manual and Automation Testing of AutomationExercise.com

Group 2@ S2_DEPI2



Overview

This project aims to ensure the quality and reliability of AutomationExercise.com through a structured testing approach combining manual and automated techniques.

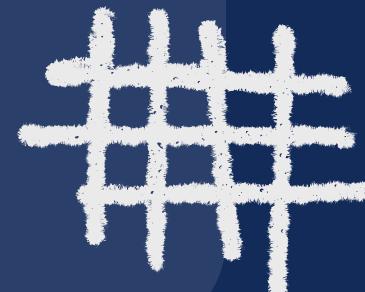
OBJECTIVES

- Identify testable features and prioritize manual test cases
- Execute end-to-end validation of critical user flows
- Automate regression tests for repetitive scenarios



GOALS

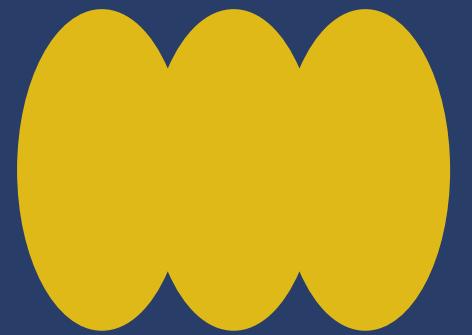
To systematically validate the functionality of AutomationExercise.com through manual test case execution, ensuring a seamless user experience, and automate repetitive scenarios to improve testing efficiency.



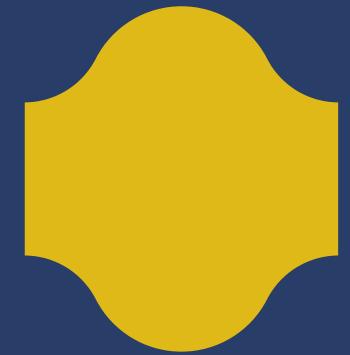
Project Scope



Manual Testing
Strategies



Automation
Testing Tools



SRS
Documentation
Process



Test Plan
Development

Timeline

REQUIREMENTS GATHERING

Identify user needs and document specifications.

TEST PLAN CREATION

Outline testing strategies and assign responsibilities.

MANUAL TESTING

Conduct tests based on user requirements.

AUTOMATION IMPLEMENTATION

Integrate automated tests for efficiency and coverage.

Testing Methods

Included in Test Plan:

- Test Objectives and Scope
- Test Strategy (manual + automation)
- Roles and Responsibilities
- Entry/Exit Criteria
- Risk Management
- Document Format: Test Plan Document (PDF)

Approach:

- Created test cases in Excel.
- Executed test steps manually on AutomationExercise.com
- Logged results and status (Pass/Fail).
- Bug Reporting:
 - Logged defects with details like steps to reproduce, actual vs. expected results.
 - Tracked status (open, fixed, closed).

Tools Used:

- Java – scripting language
- Selenium WebDriver – browser automation
- TestNG – testing framework for assertions and reporting
- Framework: Page Object Model (POM)
- IDE: Eclipse
- Build Tool: Maven

Key Sections:

- Introduction & Scope
- Functional Requirements (e.g. login, signup, add to cart)
- Non-Functional Requirements (e.g. performance, usability)

Tools: Google Docs

TEST PLAN

MANUAL TESTING

AUTOMATION TESTING

SRS

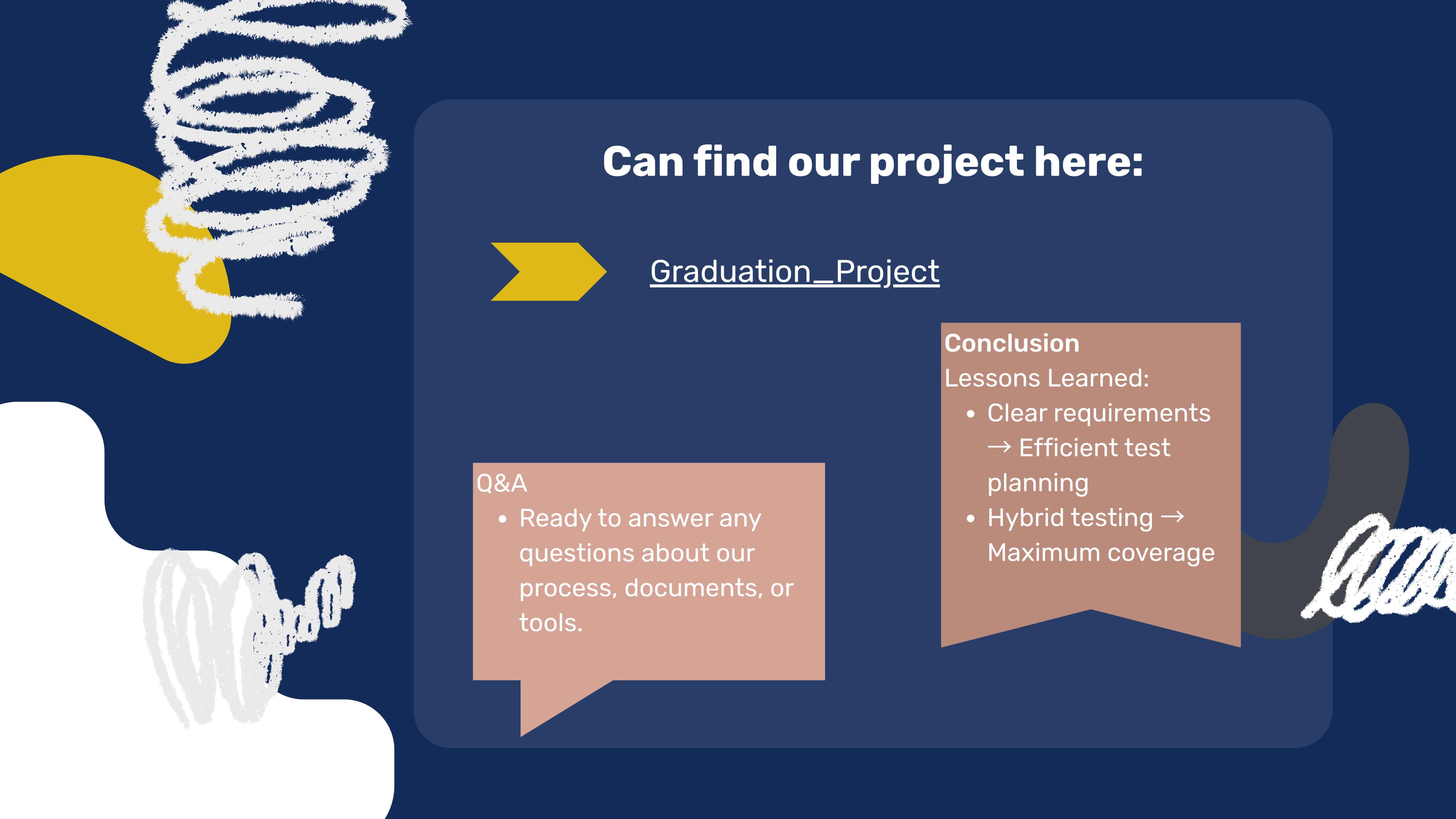
Challenges Faced

Synchronization issues with dynamic elements (fixed using waits)

Locating stable XPaths and CSS selectors

Browser compatibility bugs

Data entry validation inconsistencies



Can find our project here:



Graduation_Project

Q&A

- Ready to answer any questions about our process, documents, or tools.

Conclusion

Lessons Learned:

- Clear requirements
→ Efficient test planning
- Hybrid testing → Maximum coverage

Thank you!

