Hands-On Learning:
Agile QA Exercise:
Performing QA automation

Case Study

Overview

(this is the same organization and project that we've used in the previous exercises)

Streamline Retail is a mid-sized company that provides Point-of-Sale (POS) and inventory management solutions for small to medium retail stores. Their product suite includes a desktop management platform and a companion mobile app used by store managers to track inventory, process sales, and receive real-time analytics.

Over the past five years, Streamline Retail has grown rapidly, but its product quality has not kept pace. The development team recently adopted Scrum to improve delivery cadence and quality. QA processes are still evolving.

Project Scope: Streamline Mobile App 2.0

The goal of this project is to **redesign and rebuild the mobile app**

(iOS and Android) used by retail store managers. The new version must:

- Provide **real-time inventory tracking**
- Allow **barcode scanning** for product lookup
- Display **sales dashboards**
- Support **offline mode**
- Integrate securely with the main backend

The project is expected to be delivered in **5 increments over 4 months**, with an MVP ready by the end of sprint 3.

Your role

As a QA engineer, you are responsible for automating some of the test cases to increase the automation coverage.

The organization decided to build a webfront for the app, that allows client businesses to sell their stock online without the need to build and maintain their own we store.

Your job is to start building a test automation suite for the organization, using Ghost Inspector as the tool of choice.

Hands-on Exercise

The task

1. Create a trial account with Ghost Inspector
2. Install a Ghost Inspector browser extension
3. Navigate to https://automationexercise.com/ (a nice dummy website to test your automation skills! For the sake of this exercise, let's assume it is the Streamline Retail's webfront.
4. Identify a scenario you want to automate and automate it in Ghost inspector.

Instructions

Create trial account

1. Navigate to https://ghostinspector.com/ and create a trial account
2. In the account, create a new test suite

Install Ghost inspector browser extension

1. Navigate to https://chromewebstore.google.com/detail/aicdiabnghjnejfempeinmnphllefehc and install a browser extension to your Chrome browser

Identify the test case

1. Navigate to https://automationexercise.com/ and do some exploratory analysis of the website. Understand its functionality, identify potential critical features.

2. Select one feature and design a test case:
   a. Define the steps that the user should take to complete a scenario
   b. Define the success criteria: things that you would check to ensure scenario is passed correctly

Automate the test case

1. Follow the steps from the documentation https://docs.ghostinspector.com/test-recorder/ to record your test case

(optional)

1. Log into your Ghost inspector account and run the test case.
2. Refine it as needed, or add more checks or steps
3. Add a visual regression testing step
4. Automate a few more scenarios. Play with the tool for as long as you like. It is fun automating tests this way!

Instructions for Documenting and Sharing The Project for Peer Review

1. Document the Project

- Use word processing software to create your report.
- Ensure all sections of the project document structure are completed.
- Proofread and edit your report for clarity and accuracy.

2. Share the Project

- Save your report and presentation in PDF format.
- Upload your documents to the “Peer Review” area in the course shell.
- Provide a brief description of your project in the submission post.

Instructions for Documenting and Sharing The Project for Peer Review

3. Peer Review

- Review the projects submitted by your peers.
- Provide constructive feedback and comments on their work.