Digital Egypt Pioneers Initiative (DEPI)
مبادرة رواد مصر الرقمية

Software Tester Track

Graduation Project

Software User Manual

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Software User Manual

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1. Introduction

This user manual provides an overview of the software testing project, which includes both manual and automation testing. The manual testing part focuses on user stories for online shopping, passport applications, and medical appointment scheduling. while the automation part focuses on writing automated scripts to test various functionalities of an e-commerce platform.

2. System Requirements

Manual Testing (Qase Tool):
- **Operating System**: Windows 10 or later
- **Browser**: Latest version of Google Chrome
- **Internet Connection**: Required for accessing Qase tool

Automation Testing (IntelliJ, Selenium WebDriver):
- **Operating System:** Windows 10 or later
- **Development Environment:** IntelliJ IDEA
- **Tools**: Selenium WebDriver, TestNG, Cucumber
- **Browser:** Google Chrome (with Chrome Driver installed)
- **Java Version:** 8 or higher

3. Installation Guide

Manual Testing (Qase Setup):

1. Navigate to the Qase website and create an account.
2. Follow the prompts to set up your test case management.
3. Set up projects and begin creating test cases based on your user stories.

Automation Testing (IntelliJ & Selenium Setup):

1. Download and install IntelliJ IDEA from the official website.
2. Set up a Maven project.
3. Install the necessary dependencies: Selenium WebDriver, TestNG, and Cucumber.
4. Use the Page Object Model (POM) design pattern for structuring your tests.

4. Getting Started

After installing the necessary tools:

- Log in to **Qase** to manage and write your manual test cases.
- For automation, launch **IntelliJ IDEA** and ensure your Selenium WebDriver is set up correctly. Configure your project with the necessary TestNG and Cucumber configurations.

5. Features Overview

Manual Testing Features (Qase):
- Test Case Management: Create and organize test cases based on the project's user stories.
- Reports: Export test cases as a pdf report.

Automation Testing Features (IntelliJ & Selenium WebDriver):
- **Test Automation**: Automatically execute tests for registration, login, and more using Selenium WebDriver, TestNG and Cucumber.
- **Page Object Model (POM)**: Organize code to ensure maintainability and reusability.

6. User Interface Guide

Qase Interface:
- **Test Cases Section**: Create and manage your test cases based on user stories.

IntelliJ Interface for Automation:
- **Project Explorer**: Manage and navigate between different classes and packages (testCase, Pages, etc.).
- **Run/Debug Configurations**: Execute your automated test scenarios (e.g., Register, Login,..Etc.).

7. How to Perform Tasks

Task 1: Manual Testing User Stories

1. **User Story: Filter Products by Category**
   - Open the product page.
   - Test for category filtering and dynamic updates based on the selected filters.
2. **User Story: Apply for a Passport Online**
   - Access the form, validate real-time error messages, and test for document uploads, progress saving, and confirmation emails.
3. **User Story: Schedule a Doctor's Appointment**
   - Validate the calendar feature, booking, rescheduling, and notifications (email and SMS).

Task 2: Automation Testing Scenarios

1. **Scenario 1: Registration**
   - Automate validation of error messages for empty fields or mismatched passwords.
2. **Scenario 2: Login**
   - Test logging in with valid credentials after registration.
3. **Scenario 3: Landing Page**
   - Validate that products in the "Hot Sellers" section display prices and are available for adding to the cart.
4. **Scenario 4: Wishlist**
   - Test that guest users cannot add items to the Wishlist, while logged-in users can.

8. Troubleshooting

Issue: Selenium tests fail to run in IntelliJ.
Solution: Ensure all Maven dependencies are up to date and the WebDriver is correctly configured, ensure all locators are right.

9. FAQ

Q: How do I write and execute test cases in Qase?
A: Create a new project, Create test suites and Add your test cases.

Q: How do I set up Selenium WebDriver in IntelliJ?
A: Include Selenium and other dependencies in your Maven pom.xml file and initialize WebDriver in your test scripts.

10. Contact Support

For any further assistance, contact our team:
- Email: Esraa.yehia2021@gmail.com , sandra.sgorgi@gmail.com