EYouth X DEPI Project

Project proposal

Supervised by Eng/Abdelrahman Osama

Project name: OpenCart User Experience & Testing Initiative

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1. Introduction

This proposal outlines a comprehensive testing strategy for OpenCart and Restful Booker to

Ensure their functionality, performance, and security through manual testing, automation testing,

And API testing.

2. Project Objectives

• Ensure website quality by detecting and fixing bugs before launch.

• Improve user experience by verifying smooth functionality of all features.

• Accelerate testing processes by automating repetitive tests.

• Test API performance and stability to ensure seamless integration.

3. Scope of Work

A. Manual Testing

• Testing core website functionalities.

• UX/UI Testing to ensure user-friendliness.

• Cross-browser and cross-device compatibility testing.

• Basic security testing.

B. Automation Testing

• Identifying tests suitable for automation (Regression, Smoke, and Sanity Testing).

• Using tools such as Selenium for automation.

• Creating and managing test scripts.

C. API Testing

• Performance and response validation using Postman.

• Ensuring API integration with the front-end and back-end.

4. Tools & Technologies

• Manual Testing: Jira, Excel

• Automation Testing: Selenium

• API Testing: Postman

• Bug Tracking: Jira

5. Timeline & Milestones
   Hase Task

   Phase 1 Requirements Gathering

   Phase 2 Test Environment Setup

   Phase 3 Manual Testing Execution

   Phase 4 Automation Test Development

   Phase 5 API Testing Execution

   Phase 6 Performance & Security Testing

   Phase 7 Final Report Submission

6. Deliverables

   • Test Plan

   • Test Cases for Manual Testing

   • Automated Test Scripts

   • API Testing Reports

   • Defect Reports & Fix Recommendations

7. Risks & Challenges

   • Manual testing may be time-consuming.
   • Possible challenges in automation integration with the existing system.
   • Continuous updates required for test scripts due to website changes.

8. Recommendations

• Implement Shift-Left Testing to integrate testing early in the development cycle.

• Document all test scenarios to ensure easy tracking and maintenance.
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