Project Plan: Graduation Project

By: Abdelrhman Abdelkader

Shahd Yasser

Nancy El-Sherbiny

Aziz Mamdouh

Sara Atallah

Instructor: Eng. Abdelrhman Akl

Group: ALX2_SWD6_S1, Software Testing, NHA

1. Project Overview

- **Project Name:** Testing JpetStore.com

- **Project Description:** Comprehensive testing of the JpetStore platform using both manual and automated test approaches

- **Website URL:** https://jpetstore.aspectran.com

- **Start Date:** 2 / 3 / 2025

- **End Date:** 9 / 5 / 2025

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2. Objectives & Goals

- Ensure the website meets functional and non-functional requirements.

- Identify and report defects before the final deployment phase.

- Validate performance, security, and usability aspects.

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3. Testing Scope

- **3.1) In-Scope Features:**

  o **User Management:**

  - Registration

  - Login/Logout

  o **Catalog & Product Management:**

  - Product browsing by category

  - Product search functionality

  - Product detail pages

- **Shopping Cart & Checkout:**
- Add/remove items from cart
- Update quantities
- Checkout process
- Payment processing
- Order confirmation

- **3.2) Testing Types:**
- **Functional Testing:**
- Unit Testing
- Integration Testing
- System Testing
- Regression Testing

- **Non-Functional Testing:**
- Performance Testing
- Security Testing
- Usability Testing
- Compatibility Testing

- **Automation Testing:**
- UI Automation

- **Out-of-Scope:**
- Site requirements analysis and specification.

4. Test Strategy & Approach

- **4.1 Testing Methodology**

Testing Type	Description	Tools Used
Unit Testing	Tests individual components	Junit, TestNG
Integration Testing	Verifies interactions between modules	Selenium
System Testing	Tests the system as a whole	Selenium
Usability Testing	Evaluates user experience	Manual testing

- **4.2 Test Environment**
- **Operating Systems:** Windows
- **Browsers:** [Chrome, Firefox]
- **Devices:** Desktop
- **IDE:** IntelliJ
- **Version Control:** GitHub
- **Build Tool:** Maven

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5. Test Deliverables

✓ Test Plan Document
✓ Test Cases & Test Scripts
✓ Test Execution Reports
✓ Defect Reports
✓ Final Test Summary Report

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6. Roles & Responsibilities

Role	Name	Responsibilities
Test Manager	Team Member 1	Define test strategy, overall project management
Test Lead	Team Member 2	Assign tasks, track progress, test case review
Automation Engineer	Team Member 3	Develop and maintain automation framework, create automated test scripts
Test Engineer	Team Member 4	Execute test cases, functional testing
Performance Tester	Team Member 5	Performance testing, security testing

7. Test Schedule & Milestones

Phase	Start Date	End Date	Deliverable
Test Planning	2/3/2025	9/3/2025	Test Plan Document
Test Environment Setup	10/3/2025	14/3/2025	Test Environment Ready
Test Case Design	15/3/2025	28/3/2025	Test Cases
Automation Framework Development	5/4/2025	18/4/2025	Automation Framework
Functional Test Execution	5/4/2025	18/4/2025	Execution Reports
Non-Functional Testing	19/4/2025	25/4/2025	Performance & Security Reports
Defect Fixing & Retesting	26/4/2025	4/5/2025	Defect Reports
Final Report & Sign-Off	5/5/2025	9/5/2025	Test Summary Report

8. Risk Management

Risk	Impact	Mitigation Strategy
Requirement Changes	High	Regular stakeholder meetings
Bug Fix Delays	Medium	Allocate buffer time for fixes
Resource Unavailability	High	Backup testers & cross-training
Automation Script Failures	Medium	Regular code reviews

9. Tools & Resources

- **Testing Tools:**
- **Automation:** Selenium WebDriver
- **CI/CD Integration:** GitHub Actions

10. Reporting & Communication Plan

📌 **Daily Stand-up Meetings** – Test progress updates
📌 **Weekly Reports** – Sent to Instructor. Abdelrhman Akl
📌 **Defect Tracking** – Shared in GitHub
📌 **Final Test Report** – Submitted upon completion

11. Sign-Off

Name	Role	Signature	Date
Team Member 1	Test Manager	[Signature]	9/5/2025
Team Member 2	Test Lead	[Signature]	9/5/2025
Team Member 3	Automation Engineer	[Signature]	9/5/2025
Team Member 4	Test Engineer	[Signature]	9/5/2025
Team Member 5	Performance Tester	[Signature]	9/5/2025
Eng. Abdelrhman Akl	Instructor	[Signature]	9/5/2025