**E-commerce Website Project**

**Test Plan**: E-commerce Website Project

**Duration**: 6 Months

**1.Introduction:**

Purpose:

The purpose of this test plan is to outline the testing activities for the E-commerce website project over a 6-month duration.

Scope:

The test plan will cover the testing activities for the entire development lifecycle of the E-commerce website, from initial development to final delivery .

The test plan covers the following modules of Ecommerce website of User registration, Product catalog Management, Shopping Cart and Checkout, Payment Gateway Integration, Order Management, Inventory Management, Customer Account Management, Reviews and Ratings, Search and Navigation, Promotions and Discounts, Social Media Integration, and Contact forms and customer inquiries.

Objectives:

The objectives of testing are to ensure the functionality, usability, security, and performance of the E-commerce website.

Test Strategy:

**2. Test Strategy:**

Testing Levels:

The testing will cover different levels, including unit testing, integration testing, system testing, and acceptance testing.

Testing Types:

The testing will include functional testing, usability testing, security testing, performance testing, and compatibility testing.

Test Environment:

The test environment will replicate the production environment, including the required hardware, software, and network configurations.

**3. Test Deliverables:**

Test Plan:

This document outlines the testing activities, timelines, and responsibilities.

Test Cases:

Detailed test cases will be created to validate the functionality of the website.

Test Data:

Required test data, including sample products, user accounts, and transaction details, will be prepared.

Test Logs:

Logs of test execution, including test results, issues, and resolutions, will be maintained.

Test Summary Report:

A summary report will be generated at the end of each testing phase, highlighting the overall test results.

**4. Testing Activities Timeline:**

Month 1: Requirements Analysis and Test Planning

* Analyze project requirements, user stories, and acceptance criteria.
* Identify test scenarios and prioritize them based on criticality.
* Prepare the test plan, test cases, and test data.

Month 2-3: Development and Unit Testing

* Developers will code and perform unit testing of individual modules.
* Testers will conduct unit testing and verify the functionality of each module.

Month 4: Integration Testing

* Integration testing will be performed to ensure the proper interaction and data flow between different modules.
* Testers will verify the integration of modules and identify any issues.

Month 5: System Testing

* System-level testing will be conducted to validate the overall functionality, usability, and performance of the website.
* Testers will execute test cases, report defects, and track their resolutions.

Month 6: Acceptance Testing and Release

* Acceptance testing will be carried out by stakeholders to ensure that the website meets the business requirements.
* Final bug fixes and enhancements will be implemented based on feedback from acceptance testing.
* The website will be prepared for deployment and release.

**5.Test Execution and Reporting:**

Test Execution:

Test cases will be executed based on the test plan and test data.

Defect Tracking:

Any defects found during testing will be logged in a defect tracking system and assigned to the development team for resolution.

Test Logs:

Test logs will be maintained, including test execution results, issues encountered, and their resolutions.

Test Summary Reports:

Summary reports will be generated at the end of each testing phase, providing an overview of test results, open issues, and progress.

**6.Test Resources and Responsibilities:**

Test Team:

The testing team will consist of testers with expertise in functional testing, usability testing, security testing, performance testing, and compatibility testing.

Test Environment:

The test environment will be set up by the infrastructure team, including the required hardware, software, and network configurations.

Stakeholders:

Project stakeholders, including developers, designers, project managers, and business owners, will actively participate in the testing process.

**7.Risks and Assumptions:**

Identify potential risks and assumptions associated with the testing activities for each module those are.

**Risks:**

1.Integration Issues:

There may be challenges in integrating different modules, leading to issues with data consistency, functionality, and communication between modules.

2.Performance issues:

The website may face performance issues, such as slow page loading, high response time, or scalability problems when handling a large number of concurrent users.

3.Security Vulnerabilities:

The website may be vulnerable to security threats, including unauthorized access, data breaches, and payment fraud.

4.Compatibility Issues:

The website may have compatibility issues with different browsers, operating systems, and devices, leading to inconsistent user experience.

5.Third-Party Dependencies:

The website may rely on third-party services or APIs for payment processing, shipping, or other functionalities, which can introduce dependencies and potential risks.

**Assumptions:**

1.Stable Development Environment:

It is assumed that the development environment for the website is stable and suitable for testing activities.

2.Availability of Test Data:

Sufficient and representative test data, including products, users, and transactions, will be available for testing each module.

3.Availability of Resources:

It is assumed that the necessary resources, including hardware, software, and testing tools, will be provided to the testing team.

4.Access to Test Environments:

The testing team will have access to all necessary test environments, including development, staging, and production environments.

5. Availability of Test Documentation:

The required documentation, such as functional specifications, design documents, and user stories, will be available for reference during testing.

6.Timely Bug Fixes:

It is assumed that any critical defects or issues identified during testing will be addressed promptly by the development team.