Test Plan for Ghorer Bazar

Test Plan ID: TP-GhorerBazar-001

Introduction:

This test plan outlines the testing approach for the Ghorer Bazar e-commerce website. It covers key functionalities, performance, security, and compatibility aspects to ensure a seamless and reliable shopping experience. Since the website involves online transactions and product management, it is essential to verify its usability, security, and overall performance.

Application Overview:

Ghorer Bazar is an online e-commerce platform specializing in selling household essentials, including Mustard Oil, Ghee (ঘি), Dates (খেজুর), Honey, খেজুর গুড়, Masala, Organic Oil, Nuts & Seeds, Tea/Coffee, and Functional Food. The platform also features a **discount zone** (OFFER) and a **Ramadan Corner** to promote seasonal deals. Customers can select products, add them to the cart, and complete purchases using online payment or cash on delivery.

Purpose:

The primary goal of testing is to validate the Ghorer Bazar website's functionality, security, usability, and performance. This includes ensuring:

- Correct display and categorization of products.
- Secure and reliable order processing.
- Smooth checkout and payment functionality.
- A user-friendly shopping experience.
- Compatibility across devices and browsers.

Test Items:

The following modules of Ghorer Bazar will be tested:

- **Authentication & User Management**: Login, Signup, Logout, Profile management.
- **Product Browsing & Selection**: Product categories, individual product pages, search functionality, filtering options.
- **Shopping Cart & Checkout**: Adding/removing items, cart persistence, order placement, payment processing (Online & COD).
- **OFFER & Ramadan Corner**: Discount application, seasonal promotions.
- **Order Management**: Order history, order tracking, cancellation & return.
- **UI & Global Components**: Navigation menu, footer, responsiveness, error handling.
- **Security & Performance**: Secure transactions, speed optimization, data protection.

References:

- IEEE 829 Test Documentation Standard.
- E-commerce best practices for usability and security.

Features to be Tested:

- Product listing, search, and filtering.
- Shopping cart functionality.
- Payment processing (Online Payment & Cash on Delivery).
- User authentication and account management.
- Order placement, tracking, and history.
- Discount applications via OFFER and Ramadan Corner.
- Security and performance aspects.
- Mobile and browser compatibility.

Features Not to be Tested:

- Third-party integrations such as payment gateway internals.
- Social media and blog sections (if any).

Test Approach:

The testing approach will follow a structured process, including:

- **Functional Testing**: Ensuring core functionalities work as expected.
- **UI/UX Testing**: Checking usability and mobile responsiveness.
- **Security Testing**: Verifying safe handling of user data and transactions.
- **Performance Testing**: Evaluating site speed and load handling.
- **Compatibility Testing**: Testing on different browsers and devices.
- **Regression Testing**: Ensuring that bug fixes do not introduce new issues.

Entry Criteria:

- Functional requirements finalized.
- Test environment set up.
- Test cases reviewed and approved.

Exit Criteria:

- All critical test cases executed.
- No high-severity defects remain unresolved.
- Test summary report completed and approved.

Suspension Criteria:

- Major issues preventing test execution (e.g., site downtime, unavailability of test data).

- Unresolved critical bugs that block key functionalities.

Roles and Responsibilities:

- **Test Lead**: Oversees planning, execution, and reporting.
- **QA Engineers**: Execute test cases, report defects.
- **Developers**: Fix reported defects.
- **Project Manager**: Approves test results and oversees project scope.

Schedule:

- **Test Planning**: Week 1
- **Test Case Design**: Week 2
- **Test Execution**: Weeks 3-4
- **Defect Fixing & Regression Testing**: Week 5

Training:

- **Domain Training**: Understanding e-commerce workflows, payment processing, and user interactions.
- **Process Training**: Guidelines on manual and automation testing strategies for e-commerce sites.

Test Environment:

- **Hardware**: Windows/Linux/Mac machines, Mobile devices.
- **Software**: Chrome, Firefox, Edge, Safari.
- **Network**: Stable internet connection to simulate real-world shopping experiences.

Test Deliverables:

- Test Plan Document
- Test Cases & Test Data
- Test Scenarios
- Bug Report
- Test Summary Report

Approvals:

- QA Lead, Project Manager, Development Team.

Glossary:

- **QA**: Quality Assurance
- **PM**: Project Manager
- **COD**: Cash on Delivery