Test Plan for Arogga BD

1. Test Plan ID: TP-AroggaBD-0001

2. Introduction:

This test plan outlines the manual testing strategy for Arogga BD's live website as part of a personal project. The focus is on system-level testing to validate core functionalities from an end-user perspective. Modules include user management, search functionality, product catalog, shopping cart, checkout, order management, payment gateway, prescription handling, Wishlist management, and customer support. The goal is to ensure a seamless and error-free user experience while identifying critical defects.

3. Test Items:

- User Management

- Search Engine (generic/brand search, filters, autocomplete, lab test)

- Product Catalog and Navigation

- Shopping Cart (add/remove items, bulk limits, persistence)

- Checkout (delivery options, coupon validation, prescription verification)

- Order Management (tracking, cancellation/modification, reorder)

- Payment Gateway (bKash, COD)

- Prescription Handling (upload, validation, file support)

- Wishlist Management

- Customer Support (live chat, FAQ)

- Career Module (job posts, application process)

4. References:

- Arogga BD live website: https://www.arogga.com/
- IEEE 829 Test Documentation Standard: For test case and documentation structure
- Functional requirements and test scenarios based on user experience

5. Features to be Tested:

End-User Perspective:

- User Authentication: OTP-based login and account management
- Search Functionality: Generic/brand search, fuzzy search, filters, autocomplete, lab test search
- Product Catalog: Product listing, image display, pricing, stock status
- Shopping Cart: Add/remove items, bulk limits, cart persistence
- Checkout Process: Delivery options, coupon validation, prescription verification, address input
- Order Management: Order tracking (status updates), order modification/cancellation, reorder functionality
- Payment Gateway: Multiple payment methods (Bkash, COD)
- Prescription Handling: Upload and validation of prescription files
- Wishlist Management: Add/remove Wishlist items
- Customer Support: Live chat functionality, FAQ accessibility
- Career Section: Job applications, job posts, and details

6. Features Not to be Tested:
- LinkedIn profile integration (explicitly excluded).
- Multi-product payments via credit/debit cards (e.g., MasterCard – lack of access).
- Third-party API integrations (e.g., external pharmacy systems).
- Performance/Load Testing (out of manual testing scope).
- Mobile app (focus on web version only).
- Security Testing (Requires specialized tools)
- Admin/Backend Modules (Focus is on customer-facing features only)

7. Test Approach:

- **Manual Testing Approach:** The testing will be performed manually by executing test cases and validating expected results.
- **Functional Testing:** Verify each module for expected behavior.
- **UI/UX Testing:** Ensure smooth navigation and usability.
- **Negative Testing:** Perform edge-case scenarios to check the system's robustness.

- **Defect Reporting:** Log issues with steps, severity, and screenshots.
- **Regression Testing:** Validate that new changes do not break existing functionalities.
- No automation tools (manual scope)

8. Entry Criteria:

The following conditions must be met before testing begins:

- **Finalized Requirements:** All functional and non-functional requirements for the tested modules (e.g., User Management, Checkout) are documented, reviewed, and approved.
- **Reviewed and Approved Test Cases:** Test cases for all modules (e.g., Search Engine, Cart Management) are finalized, peer-reviewed, and approved by relevant stakeholders.
- **Properly Configured Test Environment**: Test environment (live Arogga BD site) is set up, stable, and mirrors the production environment.
- **Live Site Accessibility:** The Arogga BD live website is accessible and functional (no ongoing downtime/maintenance).
- Availability of Credentials and Test Accounts: Valid user accounts (e.g., OTP-enabled logins), test payment accounts (bKash sandbox), and admin credentials (if needed) are secured.

9. Exit Criteria:

Conditions to be fulfilled before the testing phase can be closed:

- All test cases executed.
- No high-severity defects remaining.
- Test summary report completed.

10. Suspension Criteria:

Situations when testing may need to be paused:

- Critical defect blocking core workflows (e.g., login failure).
- Unavailability of required test data.
- Live site downtime >24 hours.

11. Roles and Responsibilities:

Outlines the responsibilities of each team member:

- **Test Lead:** Responsible for planning, monitoring, and reporting the testing process.
- **QA Engineers:** Execute test cases and log defects.
- **Developers:** Fix reported defects.

12. Schedule:

A timeline is given for each phase of testing:

- Test Design: 3 days.
- Test Execution: 7 days.
- Defect Retesting: 2 days.
- Final Reporting: 1 day.

13. Training:

To ensure effective execution of the testing activities, the following training prerequisites are identified:

1. **Domain Training** Understand Arogga BD's core business processes.
   Coverage:
   - OTP-based authentication flows (login).
   - Prescription validation rules (file types, size limits, mandatory fields).
   - Coupon/discount logic (e.g., eligibility, expiry rules).
   - Payment workflows (bKash, COD steps).
   - Order cancellation/modification policies.

2. **Tool Training:** Familiarity with tools for logging and managing defects.

Coverage:

- Basic usage of needed tools (for defect logging, status tracking).
- Screenshot tools (e.g.,Lightshot) for evidence capture.

3. **Test Data Preparation:** Learn to create realistic test data for scenarios.

Coverage:

- Generating dummy prescriptions (valid/invalid formats: JPG, PDF).
- Creating test coupons (expired, invalid codes).

- Setting up test accounts (users, bKash accounts).

4. Device/Browser Training: Ensure consistency across target platforms.

Coverage:

- Testing on Chrome (latest stable version).
- Cross-verification on Firefox and basic mobile responsiveness (Android/iOS).

14. Test Environment:

Details of needed environment for our testing:

- Hardware: Windows PC, Android/iOS mobile devices.
- Software: Google Chrome, Mozilla Firefox, Safari.
- Test Accounts: Created for different user scenarios.

15. Test Deliverables:

Lists the documents and reports generated during testing:

- Test Plan Document
- Mind Map
- Test Scenarios
- Test Cases and Test Data
- Test Summary Report
- Test Metrics
- Bug Report

16. Approvals:
- Specifies who has the authority to approve the test plan and test results: QA Lead, PM, Development Team.

17. Glossary:

Defines key terms used in the document for clarity:

- OTP: One-Time Password for authentication.
- COD: Cash on Delivery.
- bKash: Mobile financial service in Bangladesh.
- Fuzzy Search: Flexible search accepting typos.
- UI: User Interface
- UX: User Experience
- QA: Quality Assurance
- PM: Project Manager