**TEST PLAN**

**Project Name**: Masio Watch Web Application  
 **Prepared By**: [rashmi ninawe]  
 **Date**: [1/10/2024]

**Table of Contents**

1. Introduction
2. Objectives
3. Scope
4. Testable Features
5. Testing Approach
6. Roles/Responsibilities
7. Test Schedule
8. Test Deliverables
9. Entry & Exit Criteria
10. Tools
11. Risks and Mitigation Plans
12. Approvals

**1. Introduction**

The purpose of this document is to provide an overview of the testing approach, strategies, and scope for the Masio Watch web application. This document covers areas such as scope, objectives, test schedule, resource allocation, test deliverables, and reports.

**AUT**: [https://masiowatch.netlify.app](https://masiowatch.netlify.app/)

**2. Objectives**

* To ensure the functionality of the web application features such as user registration, login, product display, product search, purchase flow, and payment processing.
* To verify compatibility with various browsers and devices.
* To ensure that all pages and interactions follow usability best practices.

**3. Scope**

This test plan will cover the following testing types:

* Functional Testing
* Compatibility Testing (across browsers and devices)
* User Interface Testing
* Performance Testing
* Security Testing
* Usability Testing

**4. Testable Features**

The following are the testable features of the Masio Watch web application:

* **Home Page**: Ensure it loads correctly on different browsers/devices, all links and sections work.
* **Product Listings**: Verify the display and filtering of products.
* **Product Search**: Basic and advanced search functionality.
* **Product Details**: Ensure details like descriptions, images, and reviews load properly.
* **Add to Cart**: Validate adding and removing items from the cart.
* **Checkout Process**: Including payment gateway integration.
* **User Registration & Login**: New user registration, login, and forgot password functionality.
* **User Account**: Verify user profile, order history, and account settings.
* **Payment Gateway**: Validate payment processing with different methods (credit card, PayPal, etc.).
* **Order Information**: Ensure order summaries, shipping status, and notifications work correctly.
* **Responsive Design**: Ensure the website is optimized for both mobile and desktop devices.
* **Footer Links & Information**: Verify all footer links such as privacy policy, terms and conditions, etc.
* **Search Engine Optimization (SEO)**: Ensure the pages follow best SEO practices.

**5. Testing Approach**

* **Testing Types**:
  + Functional Testing
  + Compatibility Testing
  + Security Testing
  + Usability Testing
  + Performance Testing
  + Regression Testing
* **Testing Methodologies**:
  + Black-box Testing
  + White-box Testing
  + User Acceptance Testing (UAT)
* **Testing Environment**:
  + **Browsers**: Chrome, Firefox, Safari, Edge
  + **Operating Systems**: Windows, macOS, Android, iOS
  + **Tools**: Selenium, Postman, Jira, Zephyr, Lighthouse (for performance testing)

**6. Roles/Responsibilities**

| **ame** | **Role** | **Responsibilities** |
| --- | --- | --- |
| [rashmi ninawe] | Test Manager | Manage budget, resources, and ensure project milestones are met. |
| [rashmi ninawe] | Test Lead | Develop test plans and strategies, assign tasks, and review test results. |
| [rashmi ninawe] | Test Engineer | Write and execute test cases, defect tracking, and perform root cause analysis. |
| [rashmi ninawe] | Test Engineer | Automate test cases, execute regression tests, and generate reports. |

**8. Test Deliverables**

| **Deliverable** | **Description** | **Owner** | **Completio**  **n Date** |
| --- | --- | --- | --- |
| Test Plan | Overview of the test approach, strategies, and scope. | [rashmi ninawe] | [1/10/2024] |
| Test Cases | Created for all testing areas. | [rashmi ninawe] | [3/10/2024] |
| Defect Reports | Detailed descriptions of defects found. | [rashmi ninawe] | [4/10/2024] |
| Test Summary Report | Final report with overall testing summary. | [rashmi ninawe] | [5/10/2024] |

**9. Entry & Exit Criteria**

* **Entry Criteria**:
  + All required documents (requirements, design, etc.) are available.
  + Testing environment is ready.
* **Exit Criteria**:
  + All test cases have been executed.
  + All critical defects have been resolved.

**10. Tools**

* BrowserStack (Cross-browser Testing)
* Google sheets

**11. Risks and Mitigation Plans**

| **Risk** | **Mitigation Plan** |
| --- | --- |
| Lack of Automation Testers | Resource backup planning |
| Unclear or incomplete requirements | Frequent communication with stakeholders for clarifications |
| Delays in environment setup | Early identification and resolution of dependencies |

**12. Approvals**

Masio Watch will send the following documents for client approval:

* Test Plan
* Test Scenarios
* Reports

Testing will only proceed to the next phase once approvals are received.