TEST PLAN

Project Name : Slide Master [presentation studio]

| | **masai** | | --- | |
| --- | --- |

| **TABLE OF CONTENT** |
| --- |

**Introduction** ………………………………………………………………………………………

**Objective**……………………………………………………………………………………………

**Scope**…………………………………………………………………………………………………

**Test Features**………………………………………………………………………………………

**Roles and Responsibilities**………………………………………………………………….

**Test Schedule**………………………………………………………………………………………

**Test Delivarables**…………………………………………………………………………………

**Entry and Exit Criteria**………………………………………………………………………..

**Risk and Mitigation**……………………………………………………………………………..

**Approval**………………………………………………………………………………………………

| **INTRODUCTION** |
| --- |

The purpose of this test plan is to define the approach, scope, resources, schedule, and deliverables for testing the Hack Hurdles website (<https://hack-hurdles-036.vercel.app/>). This will ensure that the website is fully functional, user-friendly, and performs well under various conditions.

| **OBJECTIVE** |
| --- |

* Ensure the website works across different devices and browsers.
* Verify that all interactive elements, forms, and links are functional.
* Test the site's usability and user interface.
* Assess the website's performance under normal and peak load conditions.
* Validate the security of the site and check for vulnerabilities.

| **SCOPE** |
| --- |

The testing will cover the following aspects of the Hack Hurdles website:

* Functional Testing: Ensuring all features and functionality work as expected.
* UI/UX Testing: Assessing the design, user interface, and user experience.
* Performance Testing: Checking the load time, responsiveness, and scalability.
* Cross-Browser Testing: Verifying compatibility with different browsers and devices.
* Security Testing: Ensuring that the website is secure from common vulnerabilities.

| **TEST FEATURES** |
| --- |

**TESTING TYPES**

### **Functional Testing**

* Verify registration, login, and logout functionality.
* Test all interactive elements (buttons, links, forms, etc.).
* Ensure that dynamic content is displayed correctly and behaves as expected.

### **UI/UX Testing**

* Evaluate the layout and design for consistency and responsiveness across devices.
* Test navigation and user flows to ensure ease of use.
* Verify accessibility features such as font size, color contrast, and screen reader compatibility.

### **Performance Testing**

* Measure page load times on different devices and network conditions.
* Test the scalability of the website under different loads (e.g., simultaneous users).

### **Cross-Browser Testing**

* Check the website on multiple browsers: Chrome, Firefox, Safari, Edge, etc.
* Verify mobile compatibility (using real devices or emulators).

### **Security Testing**

* Conduct vulnerability scans to check for common security issues (XSS, SQL injection, etc.).
* Test HTTPS implementation and SSL certificate validity.

| **TEST APPROACH** |
| --- |

The testing approach will include:

* Functional Testing: Selenium, Cypress
* UI/UX Testing: Browser developer tools, Responsive Design Tester
* Performance Testing: Google Lighthouse, GTmetrix, LoadRunner
* Cross-Browser Testing: BrowserStack, Sauce Labs
* Security Testing: Burp Suite

| **ROLES AND RESPONSIBILITIES** |
| --- |

* Test Manager: Responsible for overseeing the entire testing process.
* QA Engineers: Responsible for functional and cross-browser testing.
* UI/UX Tester: Focuses on the website's design and usability.
* Performance Tester: Handles load and performance testing.
* Security Analyst: Responsible for identifying and fixing security vulnerabilities.

| **TEST SCHEDULE** |
| --- |

| **Task** | **Timeline** | **Responsible** |
| --- | --- | --- |
| Test Plan Development | Dec 17, 2024 | Test Manager |
| Functional Testing | Dec 18 - Dec 22, 2024 | QA Engineers |
| UI/UX Testing | Dec 18 - Dec 22, 2024 | UI/UX Tester |
| Performance Testing | Dec 19, 2024 | Performance Tester |
| Cross-Browser Testing | Dec 20 - Dec 21, 2024 | QA Engineers |
| Security Testing | Dec 21, 2024 | Security Analyst |
| Test Report and Feedback | Dec 21, 2024 | Test Manager |

| **TEST DELIVERABLES** |
| --- |

* Test Plan Document
* Test Cases
* Test Execution Results
* Final Test Report
* Bug/Defect Reports

| **ENTRY AND EXIT CRITERIA** |
| --- |

### **Entry Criteria**

* Development and staging environments are set up.
* All features are completed as per the requirement.
* Test data is available.

### **Exit Criteria**

* All critical and major issues have been fixed.
* Website meets all functional, performance, and security standards.
* Final test report is generated.

| **RISKS AND MITIGATION** |
| --- |

Risk 1: Delays in feature development may push the testing timeline.

* Mitigation: Prioritize critical features for early testing.

Risk 2: Compatibility issues across multiple browsers.

* Mitigation: Use cross-browser testing tools to detect and fix issues early.

Risk 3: Limited resources for security testing.

* Mitigation: Focus on high-risk areas and utilize automated security testing tools.

| **APPROVAL** |
| --- |

The following individuals must review and approve this test plan:

* **Test Manager**: Swathi
* **Product Owner**: Kusuma
* **QA Lead**: Atul

**Approval Date**: 21-12-2024