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| TEST PLAN  Project Name — Hack-hurdles |
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| **Introduction** |
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The purpose of this test plan is to outline the testing strategy, objectives, scope, roles, responsibilities, and processes required to ensure the functionality, reliability, and usability of the Hack Hurdles platform. This plan includes manual and automated testing approaches to identify and resolve any potential defects.

| **Objectives** |
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* Verify the platform's core functionalities, focusing on the editor and e-commerce features.
* Ensure a seamless user experience with consistent design and performance across devices and browsers.
* Identify bugs early in the process to ensure timely resolution and quality assurance.

| **Scope** |
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* Core editor functionalities: text input, formatting, saving, loading documents, and responsiveness.
* E-commerce functionalities: product listing, search, cart management, checkout process, payment gateway integration.
* User interface consistency across desktop and mobile views.

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| **Testable Features** |
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#### Editor: Text input, formatting (bold, italic, underline), font size, and color adjustments, document saving/loading.

#### Navigation: Menu items, search functionality, page load times, and redirection.

#### E-commerce: Product listing and filtering, cart operations, checkout, and payment processing.

#### Account Management: Login, registration, profile management, password recovery.

#### Responsive Design: UI/UX consistency across multiple screen sizes (desktop, mobile).

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| **Testing Approach** |
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**Functional Testing**

* Validate core features (text input, formatting, saving/loading).
* Manual test cases for positive and negative scenarios.

**Compatibility Testing**

* Ensure consistent performance across browsers (Chrome, Firefox, Edge) and devices (desktop, mobile).
* Use BrowserStack or similar tools.

**Usability Testing**

* Confirm user-friendliness and accessibility (color contrast, keyboard navigation).
* Follow WCAG standards for accessibility.

**Performance Testing**

* Check response times and stability with large text/images.
* Use Lighthouse and Chrome DevTools.

**Edge Case Testing**

* Test uncommon scenarios like unsupported file formats and invalid inputs.

**Regression Testing**

* Retest core functions after any code changes to ensure stability.

**Defect Management**

* Log, track, and prioritize issues using tools like Jira for efficient resolution.

| **Roles and Responsibilities** |
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**Test Manager:** Oversee the testing process and manage resources for Hack Hurdles.

**Test Lead:** Define strategies, assign tasks, and review test results for Hack Hurdles.

**Test Engineer:** Write test cases, execute tests, and report defects for Hack Hurdles.

| **Test Schedule** |
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| **Task** | **Duration** |
| --- | --- |
| Test Plan Creation & Mind Map | 01 october 2024 |
| Test Scenario | 02 october 2024 |
| Test Cases & Execution | 02 october - 04 october 2024 |
| Bug Reporting | 04 october - 05 october 2024 |
| Test Summary / Presentation Report Submission | 05 october 2024 |

| **Test Deliverables** |
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| **Deliverable** | **Description** |
| --- | --- |
| RTM | Detailed Requirement strategy and Feature. |
| Mind Map & Test Plan | Detailed testing strategy and scope |
| Test Cases | Detailed cases for functional/UI testing |
| Defect Reports | Identified bugs during testing |
| Test Summary | Detail summarize what you have done in whole Testing |

| **Entry & Exit Criteria** |
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**Entry Criteria:** Test environment is set up, test data is available, and all required functionalities are implemented.

**Exit Criteria:** All test cases are executed, critical defects are resolved, and test summary report is completed with passed and failed test cases documented.

| **Tools** |
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**BrowserStack**: For cross-browser and device testing.

**Google Sheets**: For managing test cases and defect reports.

**Selenium**: For automating functional tests (if applicable).

| **Risks and Mitigation Plans** |
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| **Deliverable** | **Description** |
| --- | --- |
| Unstable website | Plan testing during stable hours. |
| Undefined requirements | Clarify requirements before testing. |