#### **Test Plan for Innovator Academy Demo Website** **Version: 1.0**

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#### **Introduction**

The objective of this test plan is to manually evaluate the functionality, usability, and performance of the **Innovator Academy Demo Website**:  
**URL:**<https://innovatoracademy.netlify.app/>

Manual testing ensures that the application meets the expected requirements by simulating real user interactions and identifying defects in the application.

#### **Objectives**

1. Verify core functionalities such as login, navigation, and course enrollment.
2. Assess usability and user experience (UI/UX).
3. Ensure compatibility across multiple devices and browsers.
4. Identify and document defects with detailed evidence for resolution.

**Scope**

* Core functionality validation (login, signup, navigation, course management).
* Usability and accessibility evaluation.
* Cross-browser and cross-device testing.
* Basic performance metrics like page load times and navigation responsiveness.

#### **Testable Features**

1. **Homepage:** Layout, banners, navigation links, and responsiveness.
2. **Navigation:** Menu items, breadcrumbs, and internal link redirections.
3. **User Account Management:** Login, signup, password reset, and profile updates.
4. **Course Management:** Course filtering, sorting, viewing details, and enrollment processes.
5. **UI/UX Consistency:** Design alignment, responsiveness, and accessibility features.

#### **Roles and Responsibilities**

| **Role** | **Responsibility** |
| --- | --- |
| **Test Lead** | Plan and oversee the testing process, allocate tasks, and ensure timelines. |
| **Manual Tester** | Execute test cases, report defects, and ensure proper documentation. |
| **Developer (Defect Fix)** | Resolve defects reported during testing. |
| **Project Manager** | Approve testing milestones and deliverables. |

#### **Testing Approach**

Manual testing will focus on validating the application by following user workflows and identifying inconsistencies or defects.

**Testing Types:**

* **Functional Testing:** Verify the core functionalities (login, navigation, etc.).
* **Usability Testing:** Evaluate user experience and accessibility.
* **UI Testing:** Ensure design consistency and responsiveness.
* **Compatibility Testing:** Validate website behavior on different browsers and devices.

**Testing Techniques:**

* **Boundary Value Analysis:** Test inputs at the boundaries of acceptable ranges.
* **Equivalence Partitioning:** Group input data into valid/invalid classes to optimize testing.
* **Error Guessing:** Leverage tester experience to uncover likely defects.
* **Exploratory Testing:** Perform unscripted testing to discover hidden issues.

**Testing Environment**

* **Devices:**
  + Desktop
  + Mobile
  + Tablet
* **Browsers:**
  + Google Chrome
  + Mozilla Firefox
  + Safari
  + Microsoft Edge
* **Operating Systems:**
  + Windows
  + macOS
  + Android
  + iOS

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#### **Test Scenarios**

1. **Homepage:**
   * Validate the layout, banners, and navigation links.
   * Verify responsiveness across devices and screen sizes.
2. **Navigation:**
   * Test menu links for correct redirection.
   * Validate breadcrumbs for accurate path tracking.
3. **User Account:**
   * Verify login/signup with valid and invalid credentials.
   * Test password reset functionality.
4. **Course Management:**
   * Validate course filtering and sorting options.
   * Ensure seamless course enrollment.
5. **UI/UX:**
   * Assess the layout consistency, font styles, and color schemes.
   * Evaluate accessibility features like keyboard navigation.

#### **Entry and Exit Criteria**

**Entry Criteria:**

* Access to the website's live environment.
* All required devices and browsers are available.
* Test cases are reviewed and approved.

**Exit Criteria:**

* All test cases are executed.
* All critical and high-severity defects are logged and shared.
* Test execution report is finalized and communicated.

#### **Defect Reporting**

Each defect report will include:

* **Defect ID:** Unique identifier.
* **Summary:** Brief description of the defect.
* **Steps to Reproduce:** Detailed steps to replicate the issue.
* **Expected Result:** What should happen.
* **Actual Result:** What actually happened.
* **Severity:** Critical, High, Medium, Low.
* **Attachments:** Screenshots or video evidence.

#### **Test Execution Report**

The execution report will summarize:

* Total test cases executed.
* Number of test cases passed and failed.
* List of defects reported, categorized by severity.
* Recommendations for improvements.

#### **Tools**

* **Test Management:** Excel or Google Sheets.
* **Defect Tracking:** Jira or similar tools.
* **Cross-Device Testing:** BrowserStack or manual device setups.

#### **Approvals**

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| Role | Name | Date |
| --- | --- | --- |
| Test Lead | Vikas Sahani | 18-12-2024 |
| Project Manager | Anjali Shaw | 18-12-2024 |