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**TEST PLAN**

**Project Name: LetCode Educational Web Application**

**LetCode**

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**Introduction**

The Aim of this document is to give an overview of the testing Approach,Strategies and Scope for the LetCode Web Educational application. This document includes details like scope of the project, Objectives, test schedules and resource allocations, test deliverables and reports.

AUT : https://letcode.in

**Objectives**

* To ensure the functionalities of key features such as Sign-Up, Log in, Sign Out.
* To confirm compatibility with different browsers.
* verify the app's performance under various condition.
* Confirm the app’s usability and user experience.
* Identify and fix any bugs or issues.

**Scope**

This test plan covers all critical features of the LetCode Web Educational application are thoroughly tested, providing a reliable and user-friendly experience for customers.

**Testable features:**

* **Sign-Up**
* **Log-In**
* **Sign-Out**
* **Work Space**
* **Courses**
* **Playwright**
* **Selenium-Java**
* **Cucumber-Selenium Java**
* **All Courses**
* **Grooming**
* **Test Practise**
* **Interview Q&A**
* **Product**
* **Input**
* **Button**
* **Select**
* **Alert**

**Testing Approach:**

* **Testing Types**  
   Functional Testing  
   Compatibility Testing

Performance Testing

Security Testing

Usability Testing

Exploratory Testing

* **Testing Methodologies** Black-box Testing  
   White-box Testing  
   Regression Testing  
   User Acceptance Testing (UAT)
* **Testing Environment** UAT  
   Pre-Prod

Internet connection

**Operation System**

iOS

Android

Windows

macOS.

**Roles/Responsibilities**

|  |  |  |
| --- | --- | --- |
| **Name** | **Role** | **Responsibilities** |
| Shiva | Test Manager | * Manage budget and resources. * Allocating additional support resource. * Assess and prioritize project risks/tasks. * Monitoring project progress. * Resolve communication issues and conflicts effectively. |
| Manas | Test Lead | * Develop test plans and strategies in alignment with project objectives and requirements. * Assign tasks, set priorities, and provide and support to team members. * Review test results and provide feedback to team members. * Monitor and manage risks throughout the testing life cycle |
| Pooja | Test Engineer | * Understand customer requirements * Write Test scenarios & Test cases * Executing the Test cases. * Performing root cause analysis to identify underlying issues. * Defect tracking and reporting. |
| Tanzeela | Test Engineer | * Understand customer requirements * Configuring and Setting up test environment. * Management of Automation tools. * Executing Regression Test cases. * File Closure activity |
| Priyanka | Test Engineer | Understand areas for regression testing feasibility.  Responsible for writing automation scripts.   * Conducts Smoke, Functional, Integration, System. * Collaboration with on shore subject matter experts. |

**Test Schedule**

Following is the test schedule planned for the project.

|  |  |
| --- | --- |
| **Task** | **Time Duration** |
| Test Plan creation | 01 Oct 2024 - 02 Oct 2024 |
| Test Scenario creation | 02 Oct 2024 - 03 Oct 2024 |
| Test case creation | 03 Oct 2024 - 04 Oct 2024 |
| Test case Execution | 04 Oct 2024 - 05 Oct 2024 |
| Summary Report Submission | 05 Oct 2024 - 06 Oct 2024 |

**Test Delivererables**

**The following**  are to be delivered to the client.

|  |  |  |  |
| --- | --- | --- | --- |
| **Deliverables** | **Description** | **Responsible Owner** | **Target Completion Date** |
| Test plan | Outlines the testing approach, strategies, and scope for the LetCode application | Tanzeela | 01 oct 2024 |
| Test Cases | Test Cases created for both functional testing and compatibility testing | Tanzeela | 02 Oct 2024 |
| Defect Reports | Detailed description of the defects identified in different versions of application. | Tanzeela | 05 Oct 2024 |

**Entry and Exit Criteria**

The below are the entry and exit criteria for every phase of Software Testing Life  
Cycle:

**Requirement Analysis**

 **Entry Criteria:**  
Once the testing team receives the Requirements documents and use documents of  
the project.Includes what functions needs to be tested and how the software should  
behave.  
 **Exit Criteria:**  
The testing team should thoroughly explore and understand each requirement listed  
in the documents.Any doubts or uncertainties regarding the requirements should be  
addressed and clarified to ensure that the testing team has a clear understanding of  
what needs to be tested and how it should behave.

**Test Planning**

 **Entry Criteria:**  
Testable Requirements derived from the given Requirements documents.Test Plan  
document includes the Test Strategy, which provides a high-level overview of  
how testing will be conducted.  
 **Exit Criteria:**  
Test Plan is signed-off by the Client (LetCode)

**Test Designing**

 **Entry Criteria:**  
The Test Plan document needs to be reviewed and approved by the client and then  
Test Plan Document is signed-off by the Client  
 **Exit Criteria:**  
Test Scenarios and Test Cases Documents are prepared, they need to be reviewed  
and signed-off by the Client.

**Test Execution**

 **Entry Criteria:**  
Test Scenarios and Test Cases document needs to be reviewed and approved by the  
client and documents are signed-off by the Client.Application is ready for further  
Testing.  
 **Exit Criteria:**  
Test Case Reports, Defect Reports are ready

**Test Closure**

 **Entry Criteria:**  
Test Case Reports, Defect Reports are ready  
 **Exit Criteria:**

Test Summary Reports, it overviews of the entire testing process

**Tools**

The following are the list of Tools we will be using in this Project:

* Chrome
* Edge
* Fire fox

 **Risks and Mitigation plans:**

The following are the list of risks possible and the ways to mitigate them:

|  |  |
| --- | --- |
| **Risk** | **Mitigation plans** |
| Lack of Automation Testers | Backup Resource Planning |
| No detailed Requirements available | Subject matter experts available for deep understanding of functionalities |

**Approvals**

Masai will send different types of documents for Client Approval like below:

* Test Plan
* Test Scenarios
* Test Cases
* Reports

Testing will only continue to the next steps once these approvals are done.