TEST PLAN

Product Name: AI CERTs Learner Portal(Frontend)

Prepared by: Pavan

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Made by: Jaswinder kaur

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# Overview

As part of the project, ‘AI CERTs Learner Portal’ asked Jaswinder to test few functionalities of

<https://v2learner.aicerts.ai/> web application.

This document serves as high level test planning document with details on the scope of the project, test strategy, test schedule and resource requirements, test deliverables and schedule.

# Scope

The scope of the project includes end to end testing the learning journey of

‘<https://v2learner.aicerts.ai/>’ web application.

## Inclusions

* Portal accessibility
* Signup process and form validations
* OTP verification(positive and negative flows)
* Dashboard and course listing validation
* Course details and mode switching functionality
* Playback and content validation for all modes

From our understanding, we believe above functional areas need to be Tested.

## 

## Test Environments

* Windows 10 – Chrome, Firefox and Edge
* Mac OS – Safari Browser
* Android Mobile OS – Chrome
* iPhone Mobile OS - Safari

## 

## Exclusions

* All the features except that are mentioned under ‘Inclusions’
* Test Automation

# Test Strategy

‘Jaswinder’ has communicated with ‘AI CERTs’ and has understood that we need to perform Functional Testing of all the functionalities mentioned in the above Scope section.

As part of Functional Testing, we will follow the below approach for Testing:

Step#1 – Creation of Test Scenarios and Test Cases for the different features in scope.

* We will apply several Test Designing techniques while creating Test Cases
  + Equivalence Class Partition
  + Boundary Value Analysis
  + Decision Table Testing
  + State Transition Testing
  + Use Case Testing
* We also use our expertise in creating Test Cases by applying the below:
  + Error Guessing
  + Exploratory Testing
* We prioritize the Test Cases

Step#2 – Our Testing process, when we get an Application for Testing:

* Firstly, we will perform Smoke Testing to check whether the different and important functionalities of the application are working.
* We reject the build, if the Smoke Testing fails and will wait for the stable build before performing in depth testing of the application functionalities.
* Once we receive a stable build, which passes Smoke Testing, we perform in depth testing using the Test Cases created.
* Multiple Test Resources will be testing the same Application on Multiple Supported Environments simultaneously.
* We then report the bugs in bug tracking tool and send dev. management the defect found on that day in a status end of the day email.
* As part of the Testing, we will perform the below types of Testing:
  + Smoke Testing and Sanity Testing
  + Regression Testing and Retesting
  + Usability Testing, Functionality & UI Testing
* We repeat Test Cycles until we get the quality product.

Step#3 – We will follow the below best practices to make our Testing better:

* Context Driven Testing – We will be performing Testing as per the context of the given application.
* Shift Left Testing – We will start testing from the beginning stages of the development itself, instead of waiting for the stable build.
* Exploratory Testing – Using our expertise we will perform Exploratory Testing, apart from the normal execution of the Test cases.
* End to End Flow Testing – We will test the end-to-end scenario which involve multiple functionalities to simulate the end user flows.

# Defect Reporting Procedure:

During the test execution –

* Any deviation from expected behaviour by the application will be noted. If it can’t be reported as a defect, it’d be reported as an observation/issue or posed as a question.
* Any usability issues will also be reported.
* After discovery of a defect, it will be retested to verify reproducibility of the defect. Screenshots with steps to reproduce are documented.
* Every day, at the end of the test execution, defects encountered will be sent along with the observations.

Note:

* Defects will be documented in a excel.
* Test scenarios and Test cases will be documented in an excel document.

# Roles/Responsibilities

|  |  |  |
| --- | --- | --- |
| Name | Role | Responsibilities |
| Person A | Test Manager | * Escalations |
| Person B | Test Lead | * Create the Test Plan and get the client signoffs * Interact with the application, create and execute the test cases * Report defects * Coordinate the test execution. Verify validity of the defects being reported. * Submit daily issue updates and summary defect reports to the client. * Attend any meeting with client. |
| Person C | Senior Test Engineer | * Interact with the application * Create and Execute the Test cases. * Report defects |
| Person D | Test Engineer | * Interact with the application * Execute the Test cases. * Report defects |

# Test Schedule

Following is the test schedule planned for the project –

|  |  |
| --- | --- |
| Task | Time Duration |
| * Creating Test Plan | Day 1 |
| * Test Case Creation | Day 2 and 3 |
| * Test Case Execution | Day 4 and 5 |
| * Summary Reports Submission | Day 6 |

# Test Deliverables

The following are to be delivered to the client:

* Test Plan Document
* Test Case Sheet
* Bug Reports
* Test Execution Report
* Final Test summary Report

# Pricing

NA

# Entry and Exit Criteria

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

**Entry Criteria:**

* Application build deployed and passed.
* All major bugs removed and verified.

**Exit Criteria:**

* All critical test cases executed and passed.
* All major bugs resolved and verified.

# Suspension and Resumption Criteria

Based on the Client decision, we will suspend and resume the Project. We will ramp up and ramp down the resources as per Client needs.

# Risks and Mitigations

The following are the list of risks possible and the ways to mitigate them: Risk: OTP email delay

Mitigation: Use alternative test emails or mock services.

Risk: Network instability

Mitigation: Schedule retest on stable connection. Risk: Browser compatibility issues

Mitigation: Test on multiple browsers.

# Approvals

Team 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.