# **Introduction**

The test plan is designed to prescribe the scope, approach, resources, schedule of the testing activities of the project.

The plan identifies the items to be tested, the features to be tested, the types of testing to be performed, the personnel responsible for testing, the resources and schedule required to complete testing, and the risks associated with the plan.

## **Scope**

All the features of the Mock exam system of the Buddha tech were defined in t he the software requirement specification which are needed to be tested.

|  |  |  |
| --- | --- | --- |
| Module Name | Applicable Roles | Descriptions |
| Registration | User | User: The system should have a registration page where the user can sign up with their email and password. An email verification process should also be in place to verify the authenticity of the email address. |
| Login | Admin  User | A secure login system should be implemented to allow the admin and users to log into their accounts. The password should be hashed before being stored in the database for security purposes. |
| Subject Selection | User | The user should be able to choose their respective subjects for the mock test. |
| Answer Checking | User | An answer checking system should be available to automatically grade the user's answers. |
| Saving Answers | User | The system should have the ability to save the answers given by the user along with the question. |
| Profile Update | User | The user should be able to update their profile information such as their name, email, and password. |
| Logout | Admin  User | After the mock test is over, the user should be able to log out of the system. |

## **Out of Scope**

These are the features that are not be tested because they are not included in the software requirement specs.

* Direct Signup and Sign In using google Account.
* Can add and delete admin.
* Communication interface
* Time constraints tests
* Adding profile images
* Changing user profile data asks for email verification.

## **Quality Objective**

The test objectives are to verify the functionality of the Mock exam system. This project should focus on testing the exam operations such as saving answers and checking the answers, etc. to guarantee all these operations to work normally in real scenario cases.

## **Roles and Responsibilities**

* ***Project manager and QA – Adwait Khadka***

Responsible for leading the project from start to finish, ensuring it is completed within the time limit and to the satisfaction of the stakeholder or client.

* ***Front-End developer – Nischal Tamang***

Responsible for designing and implementing the user interface (UI) of a web application using the React JavaScript library.

* ***Back-End developer – Anish Dangi***

Responsible for designing, implementing, and maintaining the server-side of a web application.

# **Test Methodologies**

In this mock exam system, there are 2 types of testing to be conducted.

* Integration testing: Testing the system of individual software modules and tested as a group
* System testing: Conducted on a complete, integrated system to evaluate the system’s compliance with its specified requirements.

## **Suspension Criteria and Resumption Requirements**

If the team members report that there are 40% of test cases failed, suspend testing until the development team fixes all the failed cases.

## **Test Completeness**

Specifies the criteria that denote a successful completion of a test phase.

Run rate is mandatory to be 100% unless a clear reason is given.

Pass rate is 90%, achieving the pass rate is mandatory.

## **Test Environment**

It mentions the minimum hardware and software requirements that will be used to test the Application.

Following software’s are required in addition to client-specific software.

* Apache version:
* MySQL Version:
* Windows 10 and above