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| May be an image of text that says "BUDDHATECH"  Statement of work  2/9/2023 | Team members |

Adwait Khadka – PM and QA

Anish Dangi – Back-End Developer

Nischal Tamang- Front End Developer

# **Scope**

The project assigned is for the purpose for initializing a computerized Mock exam System for Students to practice. This whole project will be client driven i.e., converging on the client’s satisfaction, and will solely be focused on the clients’ given instructions. The initial steps will include elicitation that will aid in finding the main objectives and requirements of the project. This whole report will contain the whole documentation which will include the whole requirements engineering documentation, system interface design and the overall analysis of the project.

# **Project Background**

The focus for this project for us would be addressment of all the requirements that have been elicited from the provided document and the interviews through this website The features that are must which was provided to the PM by the client includes a web-based platform that allows an administrator to create questions and options for a specific subject. The admin will have access to the BackOffice through a login page. Once logged in, the admin will be able to create, edit, and manage questions and options for the subject. The questions and options can then be used for mock tests for the students for practicing and different educational purposes. The BackOffice will have a user-friendly interface and allow the admin to efficiently manage the questions and options for the subject.

# **Project Aims and Objectives.**

The main objective of this project is to build a system with the best solution where the team designs both the front end and back-end designs.

The aims and objectives can be listed as:

1. Secure Login System: The login system must be secure, ensuring that only authorized users have access to the BackOffice.
2. Email Verification: The email verification process ensures that the registered user has provided a valid email address and helps to prevent fake registrations.
3. Subject Selection: Users should be able to choose their respective subjects for the mock test.
4. Answer Recording: The BackOffice should have the ability to save the answers given by the user along with the question.
5. Automatic Answer Checking: The answer checking system should be available and automatic, allowing users to instantly receive feedback on their answers.
6. Profile Update: The user should be able to update their profile information if necessary.
7. Log Out: After the mock test, users should be able to log out of the system securely.

These aims and objectives aim to provide a comprehensive and efficient system for users to test their knowledge and improve their understanding of the subject.

# **Technology platform**

For a technology platform that integrates React and PHP, use of (Apache, MySQL, and PHP) stack. The front-end of your application can be built using React, and the back end can be handled by PHP. There is a use of a web server Apache to serve the React app and handle the communication between the front-end and back-end.

PHP version - 8.0.25

React version - 18.2.0

# **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.

# **Project Development Methodology**

Project Development Methodology is a tightly defined set of logically related practices, procedures, and processes that establish how to best plan, create, control, and deliver a project from start to finish.

The project development methodology for the BackOffice can follow the Extreme Programming methodology, which is an iterative and flexible approach to software development.

Customers having a vague software design in mind could use extreme programming as Continuous testing and continuous integration of small releases ensure software code is delivered is of high quality.

For this methodology to undergo properly, meeting amongst the software development team is a must.

Here's a general idea of how the development process could be organized:

**Requirements gathering**: Gather and analyse the requirements from the stakeholders and end-users. This will help to clearly define the scope and goals of the project.

**Design**: Create a high-level design of the BackOffice, including the user interface and functionality.

**Development**: Develop the features and functionality of the BackOffice using a programming language.

The development process should be divided into smaller, manageable chunks known as sprints.

**Testing**: Test each sprint thoroughly to ensure that the functionality is working correctly and meets the requirements.

**Deployment**: Deploy the BackOffice to a live environment, making it available to users.

**Maintenance**: Continuously monitor and maintain the BackOffice to ensure that it is running smoothly and addressing any issues or bugs that arise.

**Review**: Regularly review the project to determine if any changes need to be made to the requirements or design to ensure that the BackOffice is meeting the needs of the stakeholders and end-users.

This Extreme Programming methodology allows for a flexible and iterative approach to software development, allowing the development team to quickly respond to changes and deliver a high-quality product to the users.

# **Elicitation**

Information regarding the system was given to the team through assignment brief. No other elicitation was further performed but based on real scenario feedbacks were taken from related people with the project.

# **Dependencies/Risks**

# **Acceptance Criteria**

Acceptance criteria are a set of conditions or standards that must be met before a project, or its deliverables can be considered complete and accepted by the stakeholders or clients.

Acceptance criteria for the project include:

**Functionality**: The project meets all the basic requirements and specifications as defined in the project plan.

**Performance**: The project meets performance targets, such as response time and accuracy.

**Quality**: The project meets quality standards, such as code quality, usability, and accessibility.

**Security**: The project meets security requirements, such as data protection and access control.

**Documentation**: The project includes all the accurate and complete documentation, such as user manuals and technical specifications.

**User** **Acceptance**: -

# **Change Management Process**

Change management is the process that is used to implement changes through building and delivering effective change strategies.

The given project given to us by the stakeholders only holds basic functionalities. These functionalities can be further developed and worked on with proper time management and further development in the system.

Functionalities that can further be developed:

1. Registration:
2. Login portal management
3. Database storage
4. Automated response from the system to the user
5. Profile management