

**Undergraduate Final Year Project Report**

**PROJECT REPORT**

**Development of eTutoring web-based secure role-based system for Greenwich University**

**Group 3**

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**Bachelor of Science with Honours in Computing**

**TABLE OF CONTENTS**

[**1.1. Introduction** 1](#_Toc37744534)

[**1.2. Project aim & objectives** 1](#_Toc37744535)

[**1.3. Project plan** 1](#_Toc37744536)

[**1.4. Project outcomes** 1](#_Toc37744537)

[**1.5. Project evaluation** 1](#_Toc37744538)

[**TABLE OF FIGURES** 3](#_Toc37744539)

[**TABLE OF REFERENCES** 3](#_Toc37744540)

# **1.1. Introduction**

Greenwich University wants to develop a web-based, role-based eTutoring system to aid students in learning more effectively.

We are a small group of students tasked with building the system for Greenwich University. In our scrum team, we have:

**Long** – the ScrumMaster. He has some professional experience in

**Khoa** – handling documents.

**Duc** – the manager of coding system tutoring

**Duy** – The management of SQL and JQuery

**Nguyen** – He has some professional experience in

Anyone know how to make an appendix to explain major keywords?

# **1.2. Project aim & objectives**

With this project, we want to learn how to develop an eTutoring system as a team using Scrum with Agile concepts in 6 months.

In order to achieve our aim, we will define the objectives and describe them in details below.

1.2.1. Analyze the system

Define requirements and functions

Decide on the technology

Explain the methodology

Planning out the project

1.2.2. Design the system

GUI, class diagram, erd, wireframe,… Not sure what to do here.

Deliverables:

1.2.3. Implementation

Code implementation? Deliverables?

1.2.4. Testing the system

Why we have testing

How we conduct testing

Deliverables: Test plan, test description, test report

Are there any objectives, activities missing? What are the deliverables for some of them?

# **1.3. Project plan**

Gantt chart & appendix

Explaination

# **1.4. Project outcomes**

???

# **1.5. Project evaluation**

Not available yet with the current information

# **2.1. Front-end**

Unsure what our team use here. Asked but no real answer yet.

# **2.2. Back-end**

**PHP**

What is PHP

PHP is a framework PHP is a popular general-purpose scripting language that is especially suited to web development. It was originally created by Rasmus Lerdorf in 1994; the PHP reference implementation is now produced by The PHP Group. PHP originally stood for Personal Home Page, but it now stands for the recursive initialism PHP: Hypertext Preprocessor.

Why do we use PHP in this project?

**XAMPP**

What is XAMPP

XAMPP is a program created the Web server (Web Server) built Apache, PHP, MySQL, FTP Server, Mail Server and using tools as phpMyAdmin. Unlike Appserv, Xampp has a fairly convenient management program, allowing you to actively turn on or off server services at any time.

Why do we use XAMPP?

Add-ons?

# **2.3. Database**

**MySQL**

What is MySQL

PHPMyAdmin is a free software tool written in PHP, intended to handle the administration of MySQL over the Web. PHPMyAdmin supports a wide range of operations on MySQL and MariaDB. Frequently used operations (managing databases, tables, columns, relations, indexes, users, permissions, etc) can be performed via the user interface, while you still have the ability to directly execute any SQL statement.

Why do we use MySQL in this project?

Compare to Microsoft SQL

# **2.4. Framework**

**Lavarel**

What is Lavarel

Laravel is an open-source PHP framework designed to make developing web apps easier and faster through built-in features. These features are part of what makes Laravel so widely used by web developers:

* A modular packaging system with dependency management. This means you can easily add functionalities to your Laravel app without writing them from scratch. You can either create your own packages for code you routinely use or install ready-to-use packages through Composer.
* A complete authentication system
* Object-relational mapping. Eloquent ORM included with Laravel presents database tables as classes for easier data access and manipulation.
* A command-line interface (CLI) that comes with dozens of pre-built commands (Artisan).
* Automatic testing. Automated tests are provided as an integral part of Laravel.
* A portable, virtual development environment. Homestead provides developers with all the tools necessary to develop Laravel straight out of the box.

Why do we use Lavarel?

Compare to Code Igniter

# **3.1. SCRUM**

What is SCRUM

How does it work

Why do we use SCRUM in this project, compare to waterfall

Do we need some other principles like design principles here?

How do we cite references?

How to write the design and implementation part?

# **TABLE OF FIGURES**

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# **TABLE OF REFERENCES**

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