**A Proposal to develop a system (web application) for both**

**public and private schools or institutions aimed at creating**

**and providing access to recognized and approved certificates**

**for students**

15th July 2021

**Introduction**

Certificates are an official document awarded to students to confirm and guarantee their level of achievement or level of education from an institution or simply schools. Certificates differentiate us from others in terms of levels. It gives an advantage which is particularly important in today’s Ghana especially from a more respected institution or a higher level. In Ghana after every level of education a certificate is given and guaranteed. And in the future these certificates are of high importance and are needed with respect to acquiring a job. The proposal proposes a review and description of whether a verified certification system is suitable for the educational world in Ghana and provide another positive step in the educational system. The proposal will discuss the importance of this system and its value and includes methods to achieving my goal.

**Problem Statement**

Most certificates are given to students after completion and students are required or obliged to take absolute care of their certificates for future use. Sometimes students or certificate holders themselves may misplace or an event occurs and the certificate is damaged. The event could be unintentional. The problem to highlight is, can the student or certificate holder re-acquire their certificate after complications with the same high value or will the process of acquiring the certificate be a smooth and easy one or a difficult one. Another problem to highlight is, imagine a situation where students want to acquire their certificate after a long period of time from schools or institutions for display and proof. Will the process be a smooth and easy one or a difficult one? These problems stress the need for the proposed system I have stated.

**Aim of the project**

I propose to review the importance and aim of a verified certification system as a possible solution to the problem stated. With this aim I will achieve the following goals:

1. Explain the system
2. And determine if the system meets the requirements to match as a solution

The system would provide an online verified certificate platform (a web application) for institutions to have an available database to store student information and upload the students’ certificates. The students on the other hand can access their information and in turn can download and print their certificate anytime and anywhere without any difficulty. The only requirements needed will be a device, example; Laptop, internet connectivity and a printer. A high valued digital certificate.

With a summary of how the system tends to work, the problems pointed out can be addressed by the system. Students and certificate holders will go through an easy process to get their certificates even after a setback.

**Objectives**

* Conduct a research to know how most schools and institutions work in order for the system to it fit and favor all
* A web application will be most suitable for the development of the system.
* A database will be required to register students and store the format of the certificates
* The web application structure and features

1. A login page
2. Registration page
3. A form to register students
4. Each student certificate portfolio
5. A downloadable certificate

* In developing the web application, the following languages will be used; **HTML, CSS, JAVA, JAVASCRIPT, C# and SQL**
* A **front-end** will be designed first (the designed interface which the user will interact with) and then the **back end** (the mechanism behind how the application will work e.g., the database)

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