PROJECT PROPOSAL ON

**DEVELOPMENT OF A REALTIME VERIFICATION OF NATIONAL YOUTH SERVICE AND UNIVERSITY CERTIFICATES**

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**CHAPTER ONE**

# **BACKGROUND OF THE STUDY**

When one look back with analytical mid, we can conclude that computer technology keeps advancing with remarkable increase in speed, accuracy and reliability. Computing in whatever field i.e. science. The **National Youth Service Corps** (NYSC) is an organization set up by the [Nigerian](https://en.wikipedia.org/wiki/Nigeria) government to involve the country's graduates in the development of the country. There is no military conscription in Nigeria, but since 1973 graduates of [universities](https://en.wikipedia.org/wiki/List_of_Nigerian_universities) and later polytechnics have been required to take part in the National Youth Service Corps program for one year.

A **graduate certificate** is an educational credential representing completion of specialized training at the college or university level. A graduate certificate can be awarded by universities upon completion of certain coursework indicating mastering of a specific subject area. Graduate certificates represent training at different levels in different countries and can be at [bachelor's degree](https://en.wikipedia.org/wiki/Bachelor%27s_degree) or [master's degree](https://en.wikipedia.org/wiki/Master%27s_degree) level.

# **PROBLEM STATEMENT**

Nigerian Graduates are ineligible for employment in governmental establishments until they complete the service year. Now when all that is done, when graduates apply for jobs at companies, their school certificate and National Service Certificate is requested for. The known method of verifying these documents by the company is to check for known patterns and serial numbers on the certificates. For NYSC certificate, they simply have a sample of a legit and adequate Certificate and then check or compare it with the one given to them by the applicant. Using the image of a sample of the national youth service certificate, at the right uppermost part there is a serial number which can be used to check the originality of the certificate. Also, the writing is not done with a normal pen, it is done with and ink pen(like the pen used to write on scrolls in China), if a NYSC certificate has a hint of being written with a normal pen then it is fake. Now instead of going through all that stress of physcially checking these parameters that guarantee the authenticity, we could have an online process of performing them. An Application that will have a sample of the originals of these certificate in the database and an algorithm that will follow the procedures of checking and verifying them accurately. It will go further to generate these certificate with a specific serial number before verifying and checking for authenticity.

# **AIM AND OBJECTIVES**

The study aims to design and implement a web-based Verification software that would generate the original of the certificate and also check the originality and authenticity of the certificate. This is therefore divided into two parts, the generation and the checking part . This is very useful for companies and would reduce time spent checking multiple certificates manually. This reduces cost and human labour.

The Specific objectives are to:

* Automate the Verification processes by developing a Web Application
* Build a database that stores all the information obtained from the portal
* Implement an online procedure for the verification and to check the authenticity of the certificate.

# **PROPOSED METHODOLOGY**

The following are the steps to be taken to create a design or model of the Application:

* Review and analysis of the existing system
* Modeling of the system using UML diagrams such as use case, data flow diagrams (DFDs)
* Modelling of the database using ER diagrams
* Modelling of the development process using a Software Development Life Cycle (SDLC)

# **SIGNIFICANCE OF THE STUDY**

The Online Verification of certificate is useful by;

* Companies to immediately and stress freely check the authenticity of certificate submitted by applicants.
* Preventing Wastage of time and energy.
* To avoid nuisance and fraud.
* Reducing the rate of corruption because some students or youths generally forge some certificates and apply for jobs with little or no potential.

# **SCOPE OF THE STUDY**

The scope will be limited to the case studies; NYSC and . The study will focus on the design and implementation of a web application with features limited to:

* Online verification of Important certificates
* Checking the Authenticity of The certificates
* Making sure I have a database of sample of original certificates (because no one would actually release the original to me) in order to compare.
* Sending a notification to the company admin to let the individual know the status of the certificate.

# **SYSTEM IMPLEMENTATION**

* Development of a web-based platform using HTML5, CSS, JavaScript, jQuery, Angular JS,VueJs, Python programming language
* Creating a database to store information obtained from using DJANGO, MS SQL RDBMS, PHP and Laravel
* Testing of the application developed from this project.

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