

# Ghana Communication Technology University



Faculty of Engineering

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Level: 300 Morning

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Report

## Redesigning of the School's (GCTU) Admission System/ SIP

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## 1 Introduction

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This report presents the technical details and core methodology of the redesigning of the school's (GCTU) admission and SIP page. The internet is becoming extremely prevalent as technology advances. The website has evolved into an essential component. The website of an institution is frequently used as one of the major requirements for rating it. As a result, having a website is critical for any major organization. To this end, Ghana Technology University College requires a functional and visually appealing website to provide an overview of the institution and to serve as a medium for interaction with students, teachers, and others. The website's main advantages may include research projects, school activities, a digital local library, a student's portal or records, and so on.

## **SYSTEM DESIGN AND SPECIFICATION**

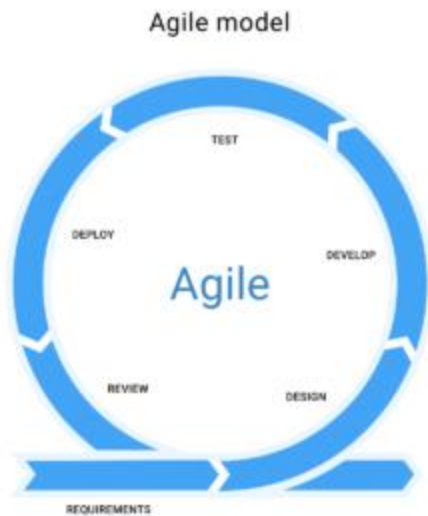
### **Methodology:**

The framework used to structure, plan, and control the process of developing an information system is referred to as a system development methodology. It also describes the techniques, tools, roles, and activities required to create a system. There are various types of development methodology. One system development methodology may not be appropriate for all projects. Based on various technical, organizational, project, and team considerations, each of the available methodologies is best suited to specific types of projects. During my search for the best methodology to use in the design of this system, I came across several methodologies, the best of which I found to be Agile Development Methodology.

Agile is a term used to describe software development approaches that emphasize incremental delivery, team collaboration, continuous planning, and continuous learning rather than attempting to deliver it all at once near the end. Agile emphasizes keeping the process lean and creating Minimum Viable Products (MVPs) that go through several iterations before being finalized. Feedback is constantly gathered and implemented, resulting in a much more dynamic process in which everyone is working towards a common goal. As a result, it is a practice that encourages continuous development iteration, incremental delivery, testing, feedback, and early delivery of business value to customers.

### **THE FIRST STAGE OF PLANNING**

When the idea to build an updated Website and SIP was conceived, I immediately decided to hold a consultative session in which I engaged students and other staff members to ascertain their level of comfort with the school's current GCTU Website and SIP, as well as their recommendation or suggestion if a new GCTU Website and SIP is to be designed.



Requirement:

Functional Requirements:

- Convenience: The system should be easy to use without difficulties.
- Login Module
- User-Interface

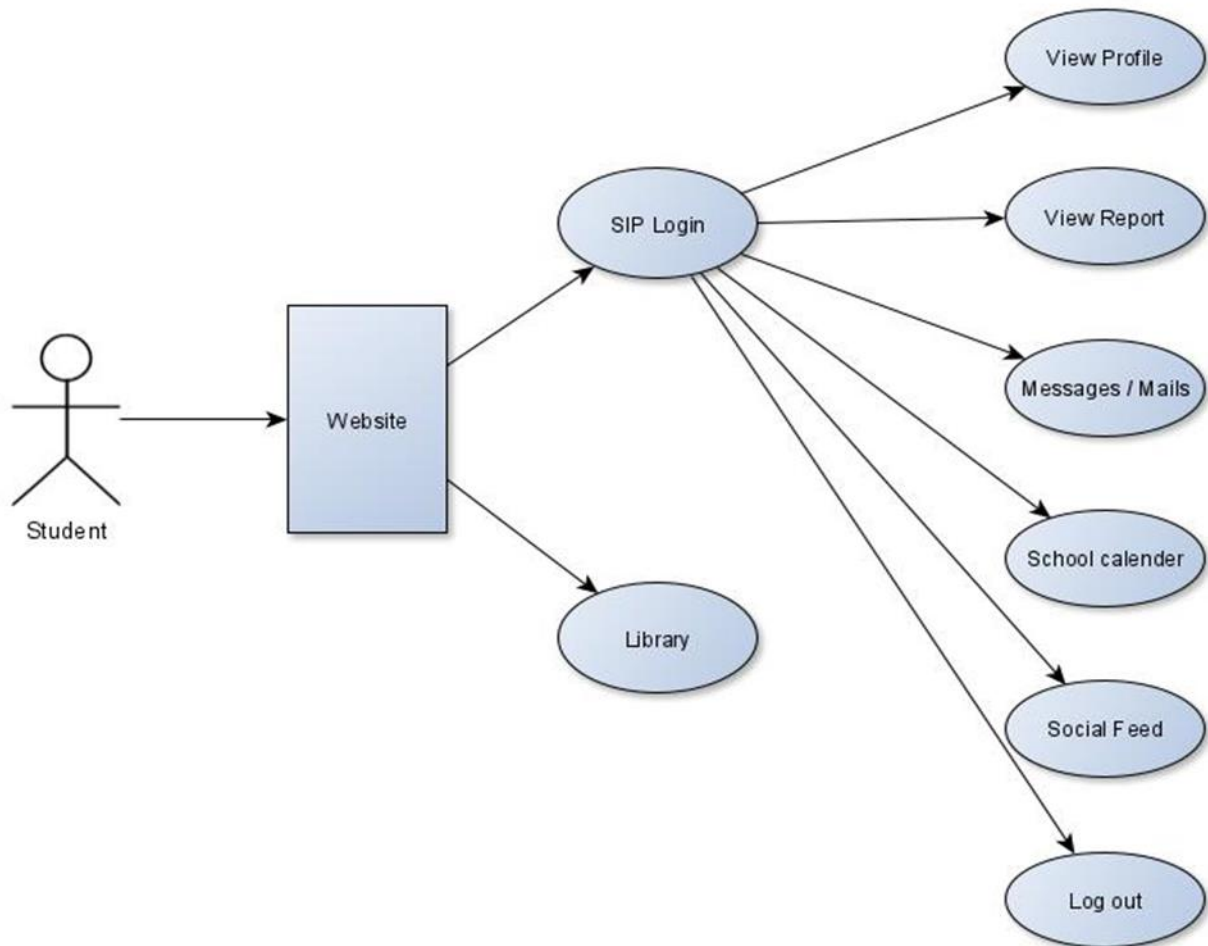
Non-Functional Requirements:

- Availability
- Confidentiality
- Accessibility
- Integrity
- Efficiency

### **DESIGN PRINCIPLE**

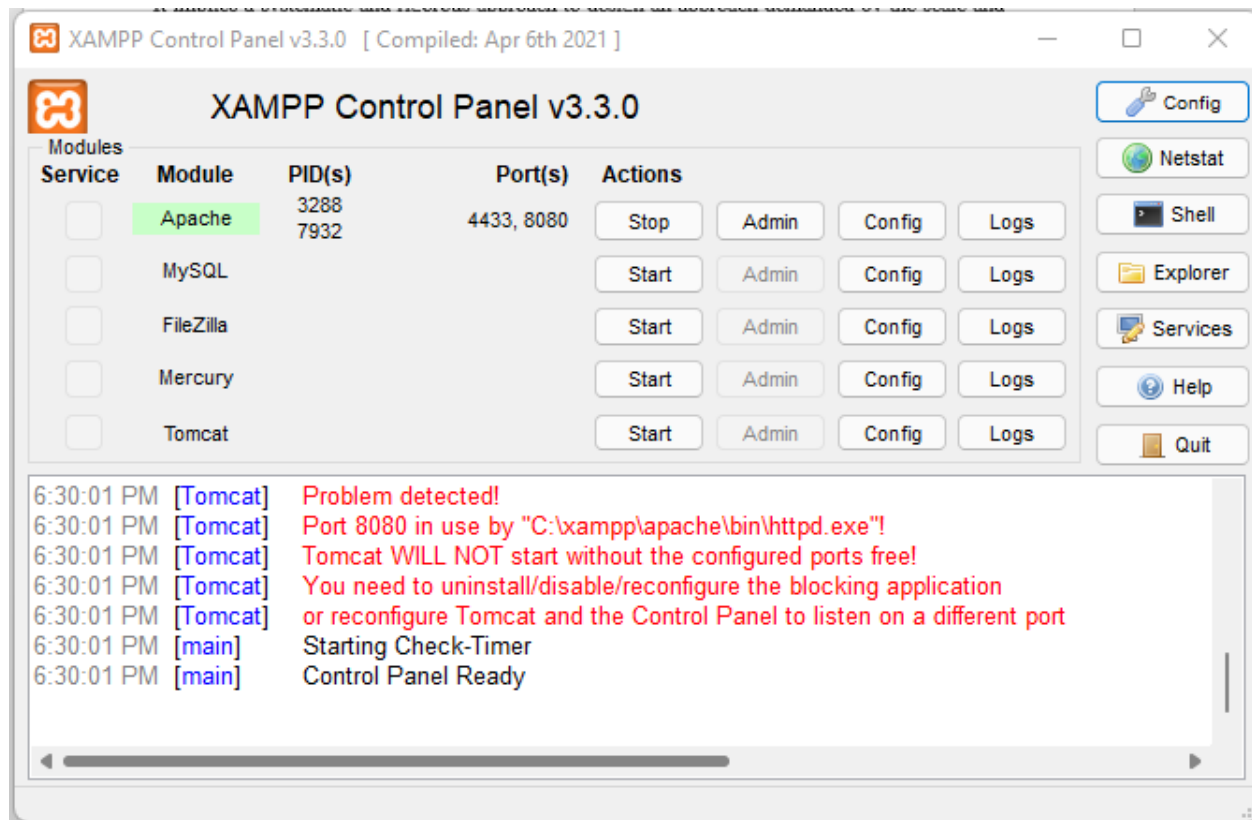
- Grid Based Layout
- Visual Hierarchy
- Mobile Friendly

## SCHEMATIC DIAGRAM

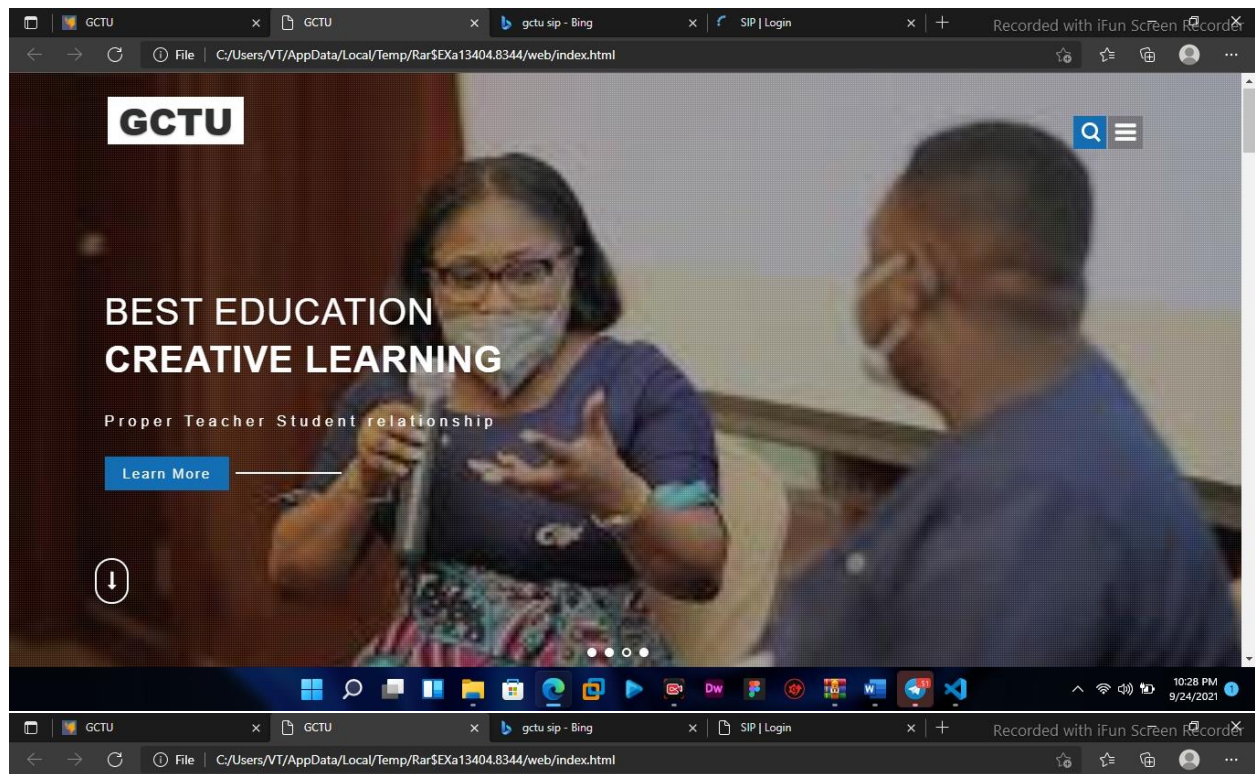


## INSTALLATION/ DEPLOYMENT CONFIGURATION SCREENSHOTS

Starting Apache Server on xxamp



Main website Homepage



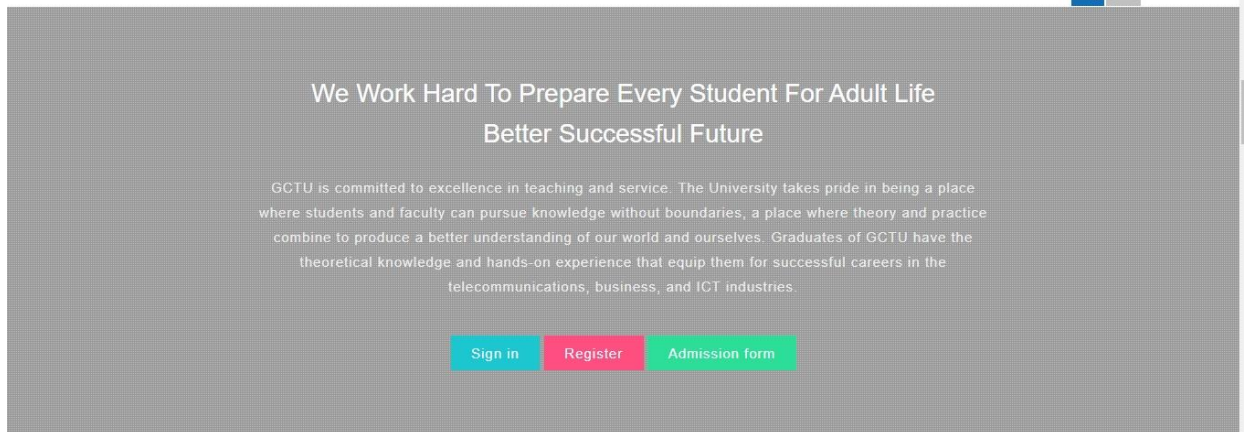
## EDUCATION IS THE FOUNDATION UP WHICH WE BUILD OUR FUTURE.

*Design is so simple that's why it is so complicated*

The University is working to carve an outstanding reputation as a leader in teaching excellence and technology, striving to establish its standing as a globally recognized center of research and intellectual creativity. The GCTU Act which confirmed the University's public status mandates the University to provide state-of-the-art, technology-oriented, and industry-relevant programs in ICT and related areas to aid in the development of students and the nation at large. Currently, GCTU offers world-class Certificate, Diploma, and Degree programs under three core faculties: the Faculty of Engineering, Faculty of Computing and Information Systems, and Faculty of IT Business. The University also runs a Graduate School which delivers postgraduate programs in the areas of Engineering, Business Administration, Management, and Information Communication Technology.

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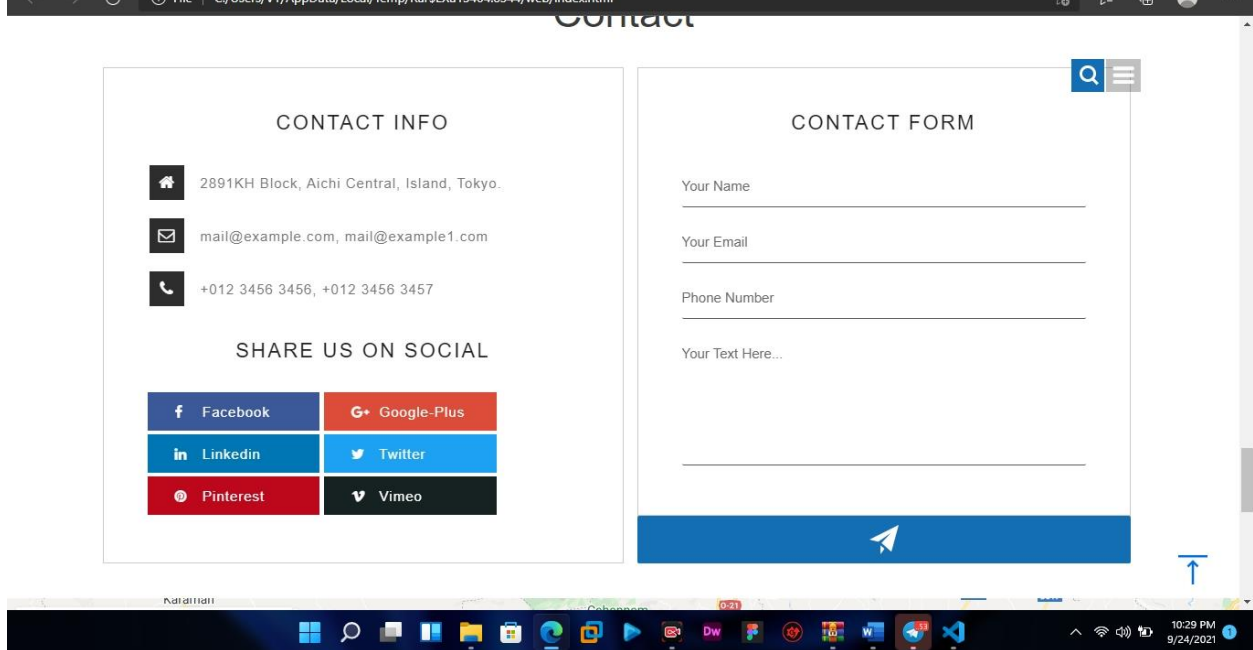
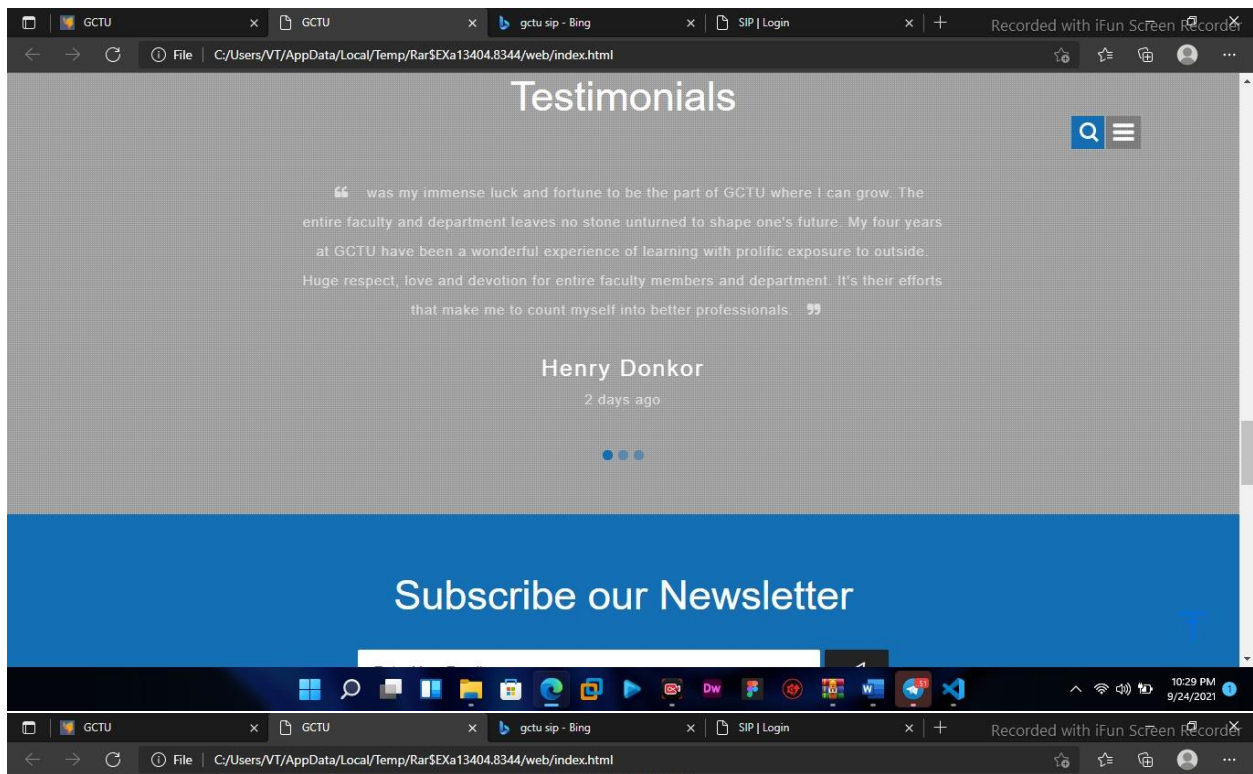
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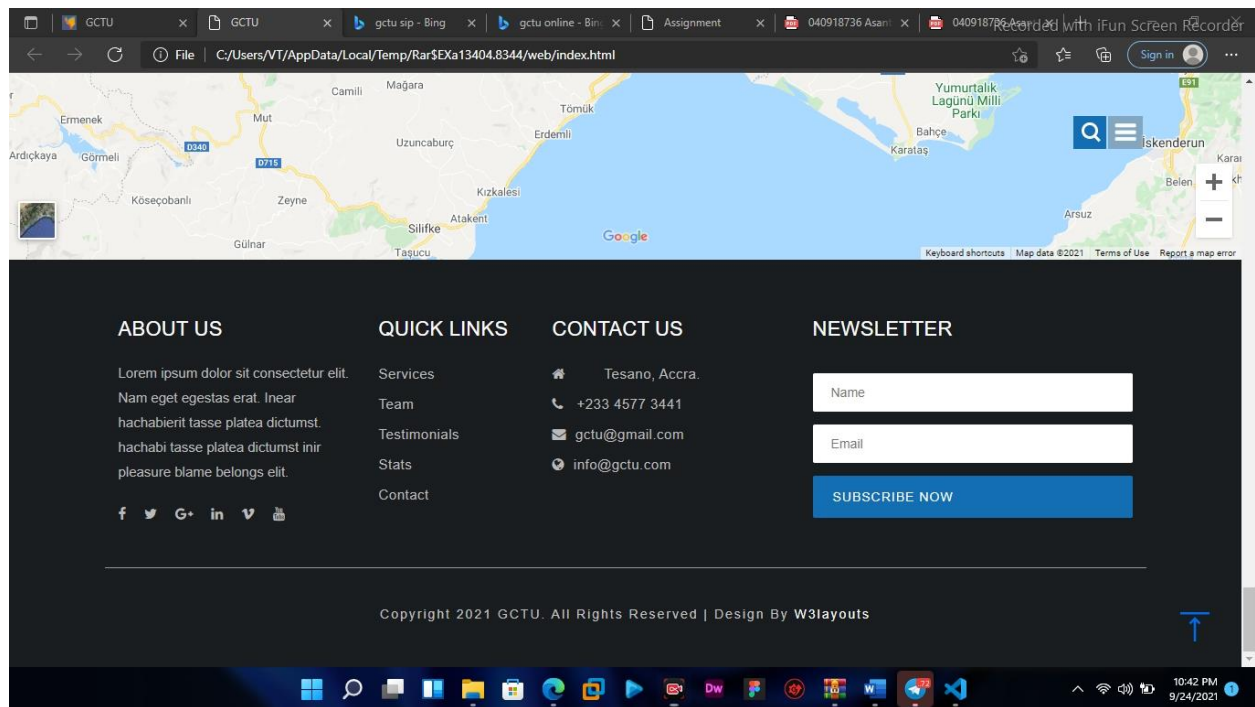
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245	165	563	245
AWARDS	STAFF	PROJECTS	ADMISSIONS







## Student Login Screen

# SIP Login



example 040912345@live.gctu.edu.gh

Password

LOGIN

## Registration Form

First Name

Last Name

Birthday

Gender

☐ Male

☐ Female

Hobbies

☐ Reading

☐ Singing

☒ Playing games

☐ Watching TV

Email

Phone Number

Country

Pin Code

Gaudian Name

Occupation

Registration Form

Recorded with iFun Screen Recorder

localhost:8080

Email

Phone Number

Country

Pin Code

Gaudian Name

Occupation

Select A Course

Choose option

Select Another Course

Choose option

Courses Applied

☐ Bachelor ☐ Masters ☐ PhD ☐ Dillpoma

Qualification

Registration Form

Recorded with iFun Screen Recorder

localhost:8080

Select A Course

Choose option

Select Another Course

Choose option

Courses Applied

☐ Bachelor ☐ Masters ☐ PhD ☐ Dillpoma

Qualification

Certificate

Grade

Year Of Completion

Submit

## **CONCLUSION**

Finally, the concept of reengineering the GCTU Website and SIP was conceived. The main functions of the Website and SIP are to display relevant images of the institution, History of establishment, Contact and e-mail addresses, List of Faculties and Departments, Admission Requirement for each program, Online Admission forms, Online Course Registration, Links to Professional sites, Link to e-Library Resources, News/Events Gallery, and finally student Information Portal. I am confident that this update will make student interaction with the GCTU Website and SIP more interactive.