**PROJECT TOPIC**: E-Bridge GLAU

**Project Group Members:**

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## The Problem Statement:

Currently, we do not have any application to give communication between Teachers and Students by the mobile via messages. Most of the Schools and Colleges are Using Whatsapp as a medium which is considered highly unprofessional.

The major issues were faced during this pandemic, when, the teachers and the students were connected virtually and used WhatsApp as a medium to share things. Whatsapp is a chat-based app used for talking with friends and family. Using WhatsApp for academic purposes is not only unprofessional but it also a violation of privacy.

## Reason for Selecting this Topic:

We are Computer Science Students and, we believe in making life at ease. We faced several issues ourselves by using WhatsApp. Whenever we had a doubt, sending it to our teacher via WhatsApp was not considered good as it felt very unprofessional. We either mail our Query or ask them during the online classes.

Keeping this in mind we got an idea to create an application, which will not only act as a chat application but can also make communicating with the teachers easy and professional. We named it as E-Bridge as it will act as a bridge between the teacher and the students.

## Objectives of the Project:

## The main objective of this project is to improve communication between teachers and students. With this project, we aim to provide a professional way to communicate. We will also focus on other aspects like sharing Study Materials, notifications if there is any important information available for them and, easy accessibility.

## We are developing this application for our University.

## Feasibility Study:

## Considering the current situation, this application will turn the whole education medium more professional. It can be used in the long run. It will replace WhatsApp as a medium for professional talks. The University will have a personal application for communication which will ensure that the data is safe. Clearing Doubts, Easy assignment submissions, and, Notifications for important information are our main focus. The application E-Bridge in Android includes all the features carried out by the manual system and also adds certain additional features so that the package will form a definite improvement.

The application will be extremely user-friendly with well-designed screens and limited inputs.

## Future Scope:

## **This app can replace the current GLAMS application as we will constantly update it with new features in the future (including the one which is already present in GLAMS application). This can be used as the main University app. We are proposing a new form of technology to get communication between Teacher and Student**.

## Methodology:

## Project Summary:

## The E-Bridge application is an android application which mainly aims to improve communication between teachers and students. This application actually consists of two modules, those are the Teacher module and Student module, where they can access and operate the application from their respective ends. We focused on both sides which will help both the teachers and the students.

## In general, the Admin will maintain the entire administration like Authorization, Authentication, permissions, History tracking, and troubleshooting, etc.

## The teacher will be allowed to access the academic data of the student. They can send notice and notifications about assignments, deadlines, and other important tasks.

## The application is made extremely user friendly.

## The teacher will access all the four-year student information and go through their Time table as their daily activities as scheduled. They can send or receive any kind of information by using the Notification tab. This will make the tasks easier for the teachers.

## The Student will access all information like Subjects, Faculty, and Schedule, and maintain a good relationship with the faculty and his/her classmates as well. They can send or receive any kind of information like Clarification, Queries, and Notice by using the Notification tab. The student can ask for Doubts in doubt section. Students Profile will provide all the academic information to the teacher.

## In this E-Bridge app Android project, we are proposing a new form of technology to get communication between Teacher and Student.

## Hardware Interface:

## An Android Phone

## Internet Connection

## 1GB RAM Required

## Constraints and Limitations:

## The Phone must be connected with Internet.

## This app can only be installed on android devices.

## Tools Required:

* + **Hardware Requirements:**
* System: Intel i3 3rd generation.
* Hard Disk: 40 GB
* Ram: 1 GB
  + **Software Requirements :**
    - Operating system: Windows 7 or above
    - Coding Language: JAVA, MySQL, PHP
    - Tool Kit: Android SDK
    - IDE: Android Studio
    - Adobe Illustrator
    - Adobe XD/Figma

## Testing Technologies:

## Monkey Talk, Ranorex, Selenium, Jmeter, jMock, JUnit, PHPUnit

## What Contribution would the Project make and Where?

## We are developing this application, mainly, for GLA University. It will make the Education Platform better by bridging the gap between student and teacher in a professional way,. Moreover, it will help the teacher to know about their students as the student profile can show their academic performance to date (only to the teacher).

## Scope and extension into major project:

## Currently, we are focusing on making an application with basic features where students can clear their queries and the teacher can send notices via notifications. The app will be constantly updated and new features will be added according to the need. This app can turn into a private social network app for GLA students, where they could share their works and talent, keeping in mind that it is professional.

## Conclusion:

## E-Bridge GLAU will contribute to professionally improving the education system. Regular Updates will make this app more efficient and user friendly. The communication gap between the students and the teachers will be bridged which will not only improve virtual learning but also help in improving the environment of the campus.

## Signature of Project Guide: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_