

## AGI BLOG: The Educational Portal

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### ABSTRACT

Educational organizations often face issues when delivering critical information to the faculty and students. The existing mode of communication is not reliable and may often fail to convey information to mass audience. To address these issues in existing system, we have developed an application called “AGI BLOG”. It is an android application exclusive for Anurag Group of Institutions. The app helps the students and faculty to share news, events and even announcements regarding academic curriculum. The role of an admin is to generate user feed, grant access and privileges to desired users and viewers get notified when an announcement has been made using custom android notifications. Viewers of news feed can comment and share articles in various social media. Students and faculty can interact with each other using a conventional messaging system integrated within the application. With exclusive google assistant integration, users can even ask queries and a chatbot will reply with appropriate answers to assist the user.

**Keywords** —Chat Bot, in-built Messaging system, notifications, feedback, communication channel

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### Introduction:

The “AGI BLOG” is an android application which has been developed exclusively for Anurag Group of Institutions. The application helps the students and faculty to connect together on a common platform to share news, articles, announcements and events in Anurag Group of Institutions. It also consists of an integrated messaging system for establishing communication between students and faculty, and also a chatbot to answer user’s queries.

### Motivation

This android application has been developed to notify the organizational members of Anurag Group of Institutions about any upcoming events or announcements which could take place in the premises. This ensures that everybody is well-informed prior to commencement of major events in the organization. An integrated chatbot and messaging system will enable the users of application to clear their queries and communicate with each other respectively.

## Problem Statement

At present, we rely on circulars, notice boards and web news to pass news/notifications in Anurag Group of Institutions and also the communication channel between Faculty and Students in a department is in a conventional mode, which does not reach the target audience. Critical Announcements often fail to reach their designated targets in time, which results in delay of operations in the institution. To overcome these issues “AGI BLOG” has been developed as an android tool to provide an elegant solution for users with a smartphone.

## Objectives

- Allow students and faculty to login on a common platform.
- To display news, events, posts on news feed section of the application.
- To notify the users of applications, using native android notifications.
- To provide a common group chat to allow students and faculty to interact with each other..
- To answer queries of users using an integrated chatbot.

## Implementation

### Modules

The project consists of three different types of modules. They are:

1. Administrator Module
2. Faculty Module
3. Student Module

### Administrator Module

In this module, an administrator will login to the application. The Administrator can create new posts, modify and delete them if necessary. The administrator also authorizes content to be posted in news feed,

sends push notifications to application users and also monitor the database operations.

### Faculty Module

The faculty module allows faculty to view, share and recommend administrator to create new content or posts in the news feed. The faculty can also send text messages through messaging system and even access the chatbot for answers to their queries.

### Student Module

In this module, the student can login and view posts and even share them from the news feed. Students can also send messages through in-built messaging system and even access the chatbot to clear their queries. Feedback can also be sent to the application developer in case of any complaints or suggestions.

## Result

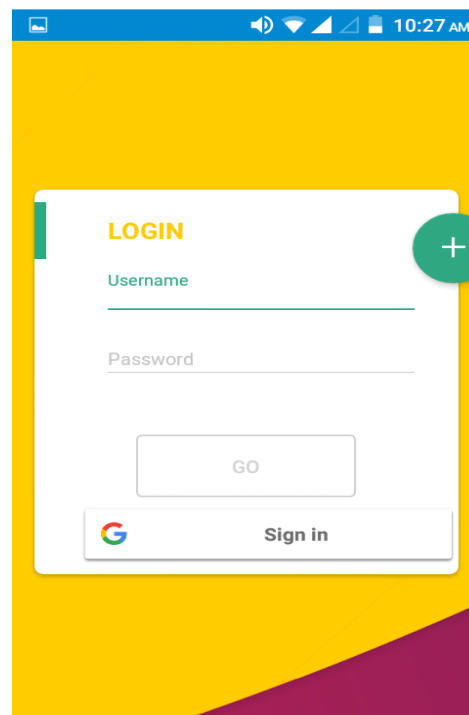


Figure: Login Panel



Figure: News Feed

## References:

- [1]<https://developer.android.com/docs>
- [2]<https://developer.android.com/guide>
- [3][https://www.tutorialspoint.com/android/android\\_studio.htm](https://www.tutorialspoint.com/android/android_studio.htm)
- [4]<https://developer.android.com/training/basics/firstapp>
- [5]<https://codelabs.developers.google.com/codelabs>
- [6]<https://classroom.udacity.com/courses/ud851>
- [7]<https://github.com/operando/Android-Studio-Sample-Projects>
- [8][https://github.com/ftctechnh/ftc\\_app/wiki/Android-Studio-Tutorial](https://github.com/ftctechnh/ftc_app/wiki/Android-Studio-Tutorial)
- [9]<https://www.journaldev.com/android>
- [10]<https://code.tutsplus.com/categories/android-studio>

## Conclusion:

By deploying “AGI BLOG” android application, operations in Anurag Group of Institutions are expected to be flexible and agile. A platform can be established where the students and faculty can interact with each other without any limitations and the activities of every club and its members can be monitored with ease. Traditional notice boards can now be replaced with the application. Thus, ensuring more vital information to be passed without any delay. Additional features can be implemented by the feedback received from the students which can help in improving the services provided by the application to Anurag Group of Institutions.