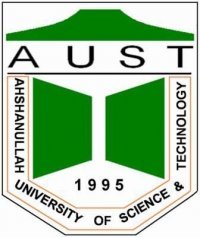
**Ahsanullah University of Science & Technology**

*Department of Computer Science & Engineering*

**RAPOO CodeWare'18, Intra AUST Project Show Contest**



**AUST Assistant**

**Team Name: DroidCube**

**Team Members**

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# Introduction

The name of our project is **“AUST Assistant”**, which is an Android App, especially developed for the students and teachers of our university.

# Project Overview

The core idea is to build an app for our university that will provide student service, information sharing and teacher facilities. It will be able to handle all information and details about teachers, students, departments, semesters and courses. Students and faculties both will be benefited by using our app as it is easier to use and time saving as well. This app allows smooth communication between teachers and students. Basically, by using our app teachers will be able to announce important notices, upload study materials and communicate with the students through chat box. Similarly, the students will be able to calculate their GPA, get quiz alerts, download and view files provided by the teachers and so on.

This android app is developed with the following platform and languages:

**Platform (IDE):** Android Studio (Minimum SDK Version: 15, Target SDK Version: 27)

**Language:** JAVA

**Database:** MySQL Database, SQLite

**Server:** Online Web server used

# Project Features

Our project, AUST Assistant Android App is based on 2 main interfaces, for the Faculties and for the students respectively. The features for developing these two interfaces are listed below:

## Faculty Corner

The “Faculty Corner” section includes the following features:

### Profile

1. No registration process needed for teachers
2. Individual profile will be provided
3. Activity Status

### Announcement

1. Quiz date declaration
2. Publishing category wise (Department, Semester, Subject) notice

### Publish Result

Publishing category wise result

### Routine

Teachers can view regular class routines according to their assigned subjects.

### Inbox

Student’s queries will be stored in the inbox section and teachers can send replies to specified questions or queries. This will act as a Chat-box or a messenger.

### Upload files

Teachers can upload important files regarding their assigned courses for the students. These files will be available in the student’s corner.

## Student Corner

The “Student Corner” section includes the following features:

### Profile

1. Registration process is required as no profile will be provided for the students previously.
2. Students have to upload their ID card images for successful registration.
3. After registration process, admin approval is required for successful login.

### CGPA Calculator

1. Students can calculate their semester wise GPA being offline.
2. They can also store and view their calculated GPA in the database through the app.

### Notice

The published announcements and results will be available in the notice section.

### Routine

Students can view regular class routines according to their departments and semesters.

### Inbox

Students can ask any questions to their teachers related to their courses. Their queries will be stored in the inbox section and teachers can send replies to specified questions or queries.

### Study Materials

Students can view and download files and subject materials uploaded by their teachers.

### Notifications

Students can get important announcements and quiz alert through pop-up notifications.

# Motivation

Now-a-days, students have to be connected with Facebook for getting alert for important posts and study materials. Often, it kills our valuable time, as we browse our news feed more rather than for study purpose. AUST Assistant will reduce Facebook dependency of the students for the study purpose. By using this app, students will be able to get important post alerts and materials provided by their course teachers without using Facebook. This will save their time and help them in their studies as well. This is our core motivation behind developing this app.

# Future Work

We want to add more features to make our app more efficient. So, some of our future ideas are given below:

* Publishing and viewing semester final examination results
* Adding Admin’s corner, which will add teacher’s profiles and control the all-over system
* Sending notification from server when the user turns on the Wi-Fi
* Adding Barcode scanner facility for efficient services

# Conclusion

In short, we have developed this project to create a friendly environment where students will be able to interact with the teachers and get important notices in time. The whole approach is to provide facilities to both the teachers and students. By using **“AUST Assistant”** they won’t have to depend on Facebook or in other social networking sites for uploading files or getting notification alerts. In future, we will try to further improve our project so that students and teachers may find the app more useful and use it to the fullest of their satisfaction.