

## **B.Sc. Project/Thesis Proposal**

Bangladesh Army International

University of Science and technology (BAIUST)

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# **1 Proposed Topic**

## **BAIUST Class Monitoring System**

# **2 Characteristics**

This project about class monitoring System. Using this app a teacher will get everyday class routine, can take attendance , publish exam marks , can get Recheck Request and also can publish a any notice. A Student can check his/her attendance percentage everyday, can get his/her daily class routine , also will be able to know his/her exam marks ,can check the notice which is only related to his/her can also can request for recheck his/her exam paper. Admin can upload student profile, Teacher profile ,Class Routine, Payment and many more things.

# **3 Project Goal**

In this applications main goal is to minimize the problems of students daily activities like-

- Attendance
- Marks
- Notice
- Payment
- Recheck
- Class routine

## 4 Methodology

For solving this problems 2 steps can be taken- 1.Improved the manual system  
2.Create an Online system. We gonna work with online system.To build an online class monitoring system: Have to build an Application with database of all students Management have to maintain all things via the Android App. The main actors of Class Monitoring System are:

- Teacher
- Student
- Admin

### 4.1 Teacher

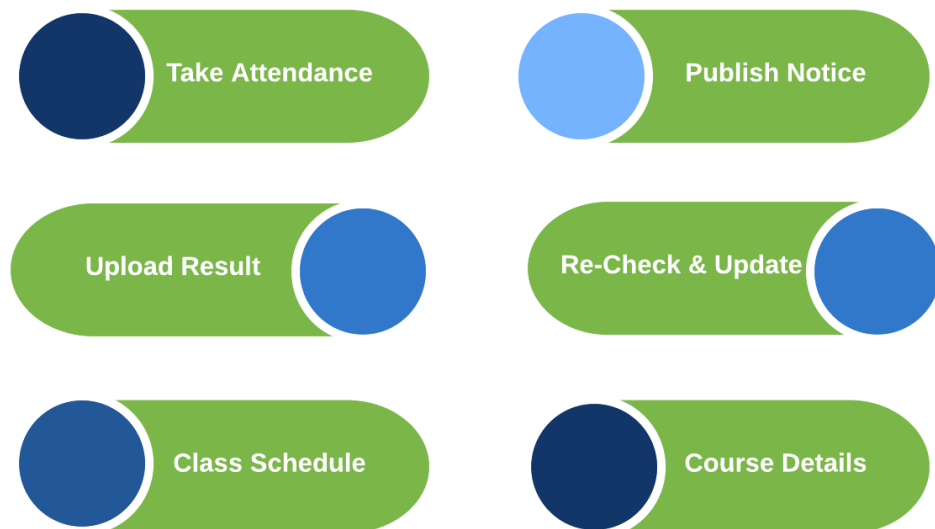


Figure: Basic Activity of Teacher's Account.

## 4.2 Student

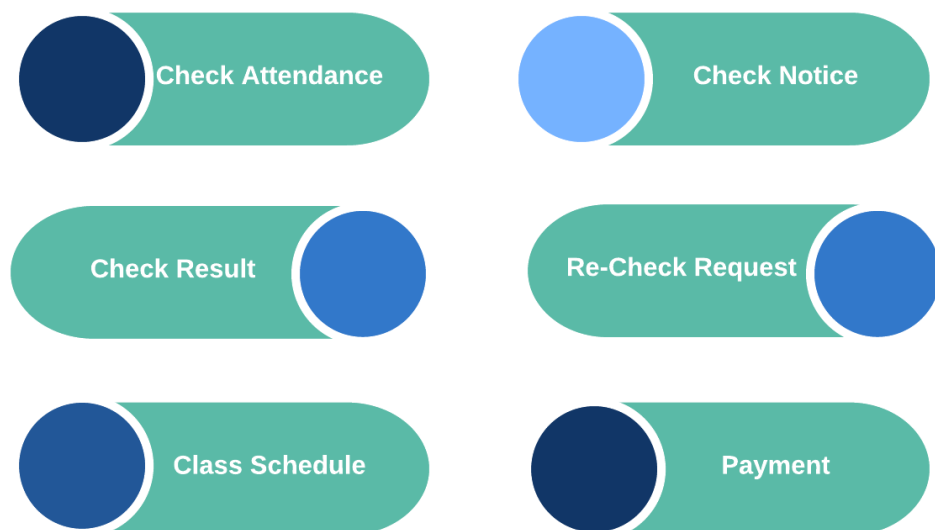


Figure: Basic Activity of Student's Account.

### 4.3 Admin

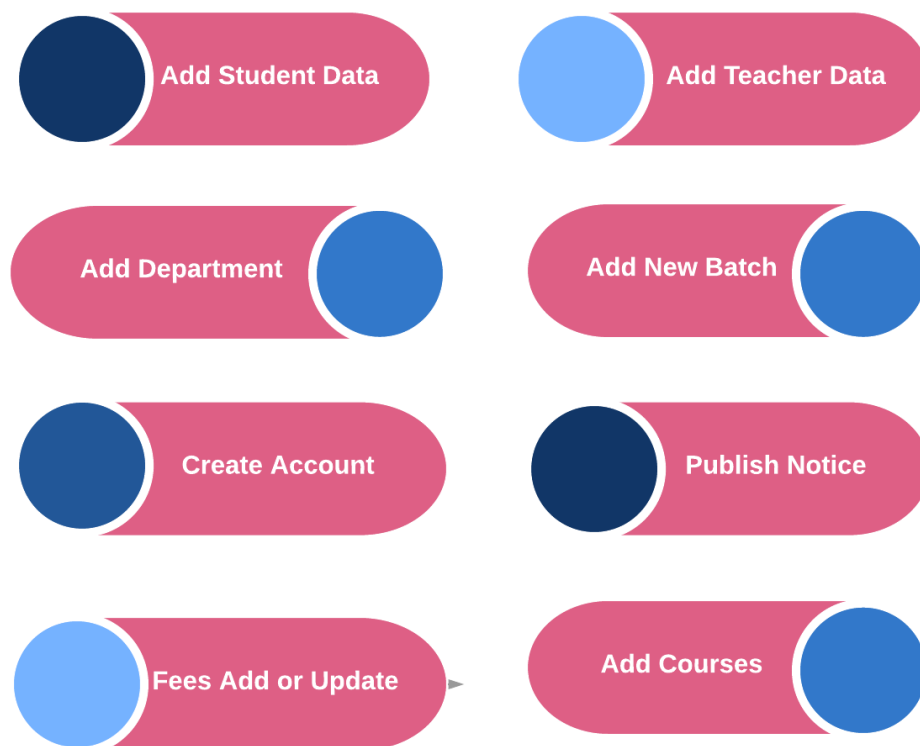


Figure: Basic Activity of Admin's Account.

## 4.4 Basic Use Case Diagram

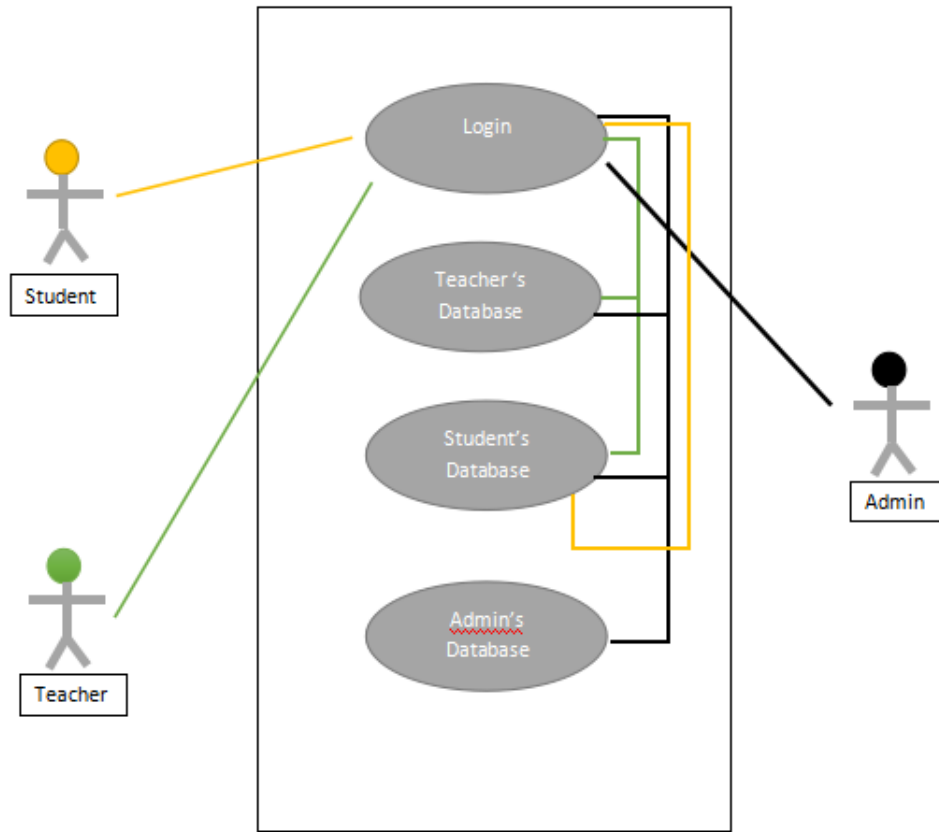


Figure: Basic Use Case Diagram of Class Monitoring system.

## 5 Platform and Tools

### 5.1 Android

Android is a mobile operating system based on a modified version of the Linux kernel and other open source software, designed primarily for touchscreen mobile devices such as smartphones and tablets.

### 5.2 Android Studio

Android Studio is the official development environment for Google's Android operating system, Designed specifically for Android development. It is available for download on Windows, macOS and Linux based operating systems.

## 5.3 Java

Java is a popular programming language, created in 1995. Java is a general-purpose programming language that is class-based, object-oriented, and designed to have as few implementation dependencies as possible. It is owned by Oracle, and more than 3 billion devices run Java. It is used for:

- Mobile applications (specially Android apps)
- Applications (Desktop Web)
- Games
- Database connection and much more.

## 5.4 Firebase

Firebase is a mobile and web application development platform developed by Firebase, Inc. The Firebase platform has 18 products, which are used by 1.5 million apps. Firebase provides a realtime database and backend as a service. The service provides application developers an API that allows application data to be synchronized across clients and stored on Firebase's cloud.

## References

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