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# College Activity Maagement System

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Abstract: The College activity management system is used to maintain college activities like fest, farewell and annual day celebrations, workshops etc. it provides information on placements, maintains student attendance, provides information on faculty, it also provides college information, and it maintains, branch details, sports details, also provides college achievements. Notification on exams and results, and it takes complaints and some other college activities. The core idea of this project is to implement android based Mobile Campus application for advancement of institution and educational system .The application will be used by students, teachers and parents. In the previous system, all the information has to view in a hard file, or in website. At the same time while searching any information it is too difficult to access and takes a lot of time to search the particular website. Hence, in order to overcome this problem a smart phone based application using Android can be used to make this process easier, secure and less error prone. More efficient information's will be achieved through this system.

Keywords: Android, Server, Notification, Attendance, Marks.

## I. INTRODUCTION

The arrangement and execution of the system is to give profit in establishment. The structure is to give profit far reaching understudy data framework and UI is to supplant the present paper records. Staff exchanges investment, results and establishment notices through a protected, online interface using android contraptions. All data is totally explored and approved on the server already certifiable record change happens. The system prepares for understudy UI, empowering understudies to get to tips and traps as given by their seniors. All data is secured securely on SQL servers managed by the Executive. The system lessens paperwork and time needed to access understudy records. As of now, establishment depended seriously on paper records for this activity which had its own impediments.

This structure gives a direct interface to the help of understudy information. It can be used by enlightening associations or schools tomaintain the records of understudies easily. Achieving this objective is troublesome using a manual structure as the data are scattered, can be repetitive social event appropos information may be astoundingly dull.

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Our proposed structure certifications to vanquish these obstacles. The paper bases on indicating information in a basic and justifiable way which gives workplaces like on the web enrollment and profile making of understudies, investment observing, roundabout warnings, result seeing along these lines diminishing written word and automating the record age process in an enlightening association.

There is an extending trend for propelled instruction associations to be expected to screen understudy records. This item makes gives insights with respect to the results of research that contemplated the effect of interest on understudy execution; examined orchestrating understudies about cooperation issues, conferred the results to partners checking admission to a Departmental game plan change, and assessed the approach educational staff should take towards poor investment [1]. It is finished up that a graduated way to deal with result watching is the best in which approve have a put, but just as a last resort. Online Participation and Feedback Framework is modifying made for step by step understudy investment in establishments, colleges and establishments. In case urges to get to the information of a particular understudy in a particular class. It is contemplated that a graduated method to manage result watching is the best response, in which sanctions have a put, albeit just if all else fails. Online Cooperation and Input Framework is modifying delivered for step by step understudy support in establishments, colleges and associations. In the occasion that urges to get to the information of a particular understudy in a particular class. There is another part which is feedback, the understudy can give the feedback at whatever point from wherever to work force. This feedback can be evaluated by the executive or the organization board of the establishment through which the secrecy of the criticism of the work force can be kept up. This application is created for step by step understudy cooperation in establishments and establishments. It can in like manner be profitable in an affiliation or association at a particular purpose of control not the aggregate application.

# II. EXISTING SYSTEM

The framework which is used nowadays has some drawback which should be upgraded for better execution [2].

The framework through which the input is taken isn't sufficiently incredible. The points of view of each and everybody understudy are not imparted through these frameworks. As the innovation is made well-ordered we need to use this advancement so we can get a beneficial result in adequate time [3]. For interest organization in the present system all work is done on paper. The whole session support is secured in enroll and toward the finish of the session the reports are made. We are unquestionably not fascinated by making report in the midst of the session or 75% participation get a notice. This is an extremely tedious process. In the present framework the outcome is seen on the notice board. It requires part of printed material and is tedious. In addition, there is no framework still present through which understudies can accept guidance from senior understudies. School can't give critical warnings to understudies if there should be an occurrence of crisis.

#### III. DRAWBACKS OF EXISTING SYSTEM

- 1. The existing system is not user friendly because the retrieval of data is very slow and data is not maintained efficiently. The use of the some technology can be complicated and time consuming. These system need to handle by specialist for maintaining and update the system which can again be very costly.
- 2. It require more calculations to generate the report so it is generated at the end of the session. The existing system using the deprecated methods as new JSON and GCM is more flexible then previous algorithm. Hence requires more time to display the report.
- 3. All calculations to generate report is done manually so there is greater chance of errors. Here the faculty has to suffer a lot through the calculation and if there is a loss of some report then it may cause a lot of problem. This is time consuming also due to exaggerating calculation. Even after that there are some miscalculation which is very frustrating for the faculty. These calculations also effects the marks of the students which will finally led to their percentage.

# IV. PROPOSED SYSTEM ARCHITECTURE

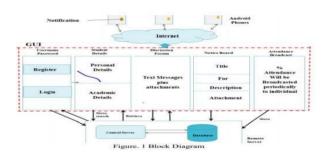


Figure 1: System Architecture Diagram

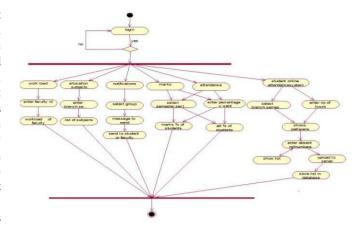


Figure 2: Activity Diagram

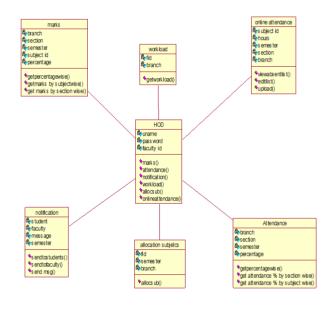


Figure 3: Class Diagram

The framework design has an advanced cell with android OS, a web benefits, a database server and the client as its parts. The android advanced cell or tablet must utilize 3G or on the other hand Wi-Fi arrange for web network to guarantee better execution however 2G ought to likewise fulfill client ask with included burden of time slack [4]. The client will login to the application through an android advanced cell. The client write is confirmed with the database server and access is given to the fitting client. The web application likewise can be utilized to login and play out specific tasks, for example, guarantees that web is on. In this module, application produces PDF document powerfully utilizing java program.

# V. MODULES

#### A. User Module:

In this module we are verifying the clients by giving username and secret word. On the off chance that username and secret word is substantial then they will be taken to their screens [5]. To distinguish client we are utilizing interesting IMEI number of android gadget with the number put away at server. When

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they get coordinated with each other framework checks the status of that gadget and exchange the control to particular UI.

## B. Database Module:

The proposed system used MySQL as its database because of their simplicity and flexibility. This module store every single information about students, faculty and model their data on specified operations. These operation can be storing student attendance, result data or can be authentication Credentials.

## C. Staff Module:

This module is designed for staff, which use mobile phone to take attendance, upload result and upload college notifications. The entered admin details are encrypted and sent to server for verification. Only after successful authentication the operations are performed. If username and Password cannot match, he/she can enter in to attendance page.

#### D. HOD Module:

Head of the Department can view the performance of students in their attendance and marks through this application.

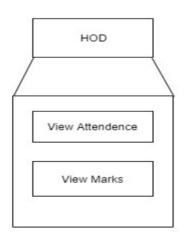
## E. Placement Officer:

Placement officer can post the circulars regarding events related to placements.

## VI. WORKFLOW

The detailed workflow of this application is as follows: The application is divided into 3 sub-groups-

## A. HOD:



#### 1) Login

Head of the Department can login with the user name and password and then he or she is directed to their respective home page.

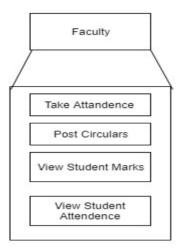
# 2) View Attendance

HOD can view the attendance of the students of their department.

# 3) View Marks

HOD can view the marks of the students of their department.

## B. Faculty/Teaching Staff



## 1) Login

Faculty can login with their user name and password and then he or she is directed to their respective home page.

#### 2) Take Attendance

Teaching faculty can take attendance of students during the lecture i.e. Within that time Frame [6]. If he or she takes Attendance anytime else he is not allowed to do that. After taking attendance he can view it and keep it for future use [7].

### 3) View Attendance

Result that is been uploaded can be viewed by the professor through their login [8].

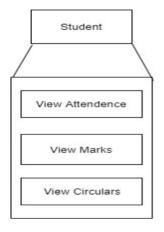
#### 4) View marks

Marks that is been uploaded can be viewed by the professor Through their login.

## 5) Post Circulars

Faculty can post notifications regarding college activities through their login.

#### C. Student:



#### 1) Login

Student can login with their user name and password and then he or she is directed to their respective home page.

## 2) View Attendance

Students can view attendance uploaded by the faculty.

## 3) View Results

Students can view results uploaded by the faculty.

# 4) View notices sent by college

Notices are sent to the students by faculty or placement officer. Useful information, college notices, important announcements

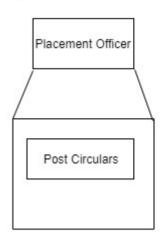
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are received on students registered phone. They can view it anytime [9].

# D. Placement Officer



## 1) Login

Placement officer can login with their user name and password and then he or she is directed to their respective home page.

## 2) Post Circulars

Placement officer can post notifications regarding placement activities through their login [10].

## VII. REQUIREMENT ANALYSIS

#### A. Hardware Requirement

- 1) Intel Quad core 1.7 GHZ Processor or above.
- 2) Minimum 100 GB HD.
- 3) Minimum 4 GB of RAM.
- 4) Standard Keyboard and Serial Mouse.

## B. Software Requirements

- 1) Android Studio.
- 2) SQL Server (Either on local host/domain)
- 3) Net Beans IDE 8.2

#### VIII. BENEFITS OF PROPOSED SYSTEM

- The application will greatly simplify and speed up the Result preparation and management process.
- It overcomes the limitations of the web based system as our proposed system is developed on Android OS.
- As the current system is manual it does not require any Sophisticated training for the User of the system.
- This project will cater facilities to all the existing versions of android devices.
- Students do not have to visit the college notice board every.

## IX. CONCLUSION

An Android based versatile application for School Administration Framework is exhibited. The application offers unwavering quality, time funds and simple control. It can be utilized as a base for making and upgrading applications for survey comes about, following participation for universities or any working environment. Understudies can see results, participation and educational modules subtle elements utilizing this application. The application will incredibly disentangle and accelerate the outcome readiness and administration process. It give high security and a

framework that decreases the work and assets required in customary process. The proposed framework gives the better approach for registering and showing a tasks with responsive and alluring UI.

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