

# ANDROID AND WEB-BASED DYNAMIC COLLEGE ADMINISTRATION SYSTEM

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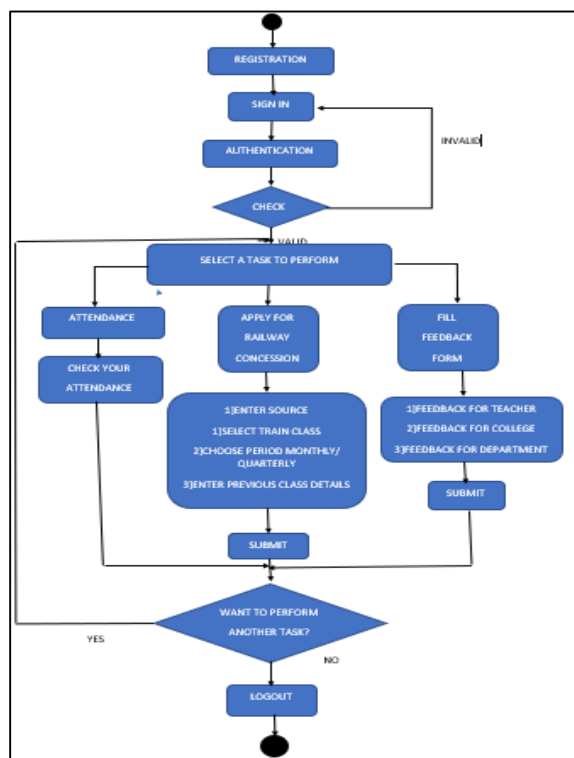
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**Abstract:** Android and Web-Based Dynamic College Administration System is an integrated platform that connects various departments of an institution like administration, staff, students as well as placement and exams. The main aim of developing the College Administration System is to provide an easy way to automate the functionalities of a college. This application provides a generalized solution to monitor the various works that are carried out by the institute for managing it. It keeps information secure and makes management easier for the institute as well as students. It provides an attractive and user-friendly environment where you can manage and update data easily. Details of students like attendance, fee receipt, id cards, marks, placement details, various certificates, etc. are maintained in the database. It also facilitates exploring various events happening in the college such as exams, practicals, submission, placements, annual events in the form of notifications. The system can be accessed via the android application as well as the website.

## I. INTRODUCTION:

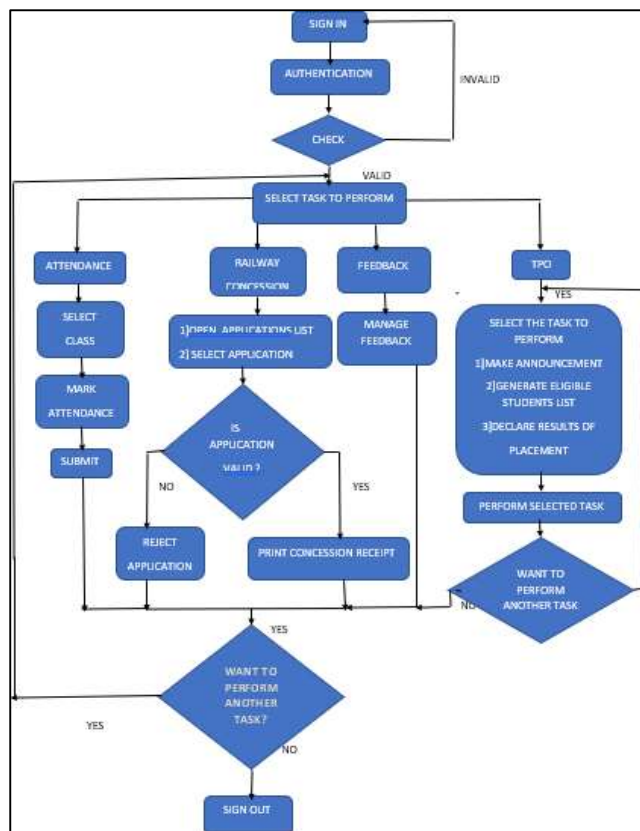
“Android and Web-Based Dynamic College Administration System” deals with various functions in the college management process. The aim of this system is to replace the traditional pen and paper records. The college personnel can easily access all the details of students concerning his/her academic progress through a secure medium. The system makes use of authentication and rectification methods before actually making any changes in the records. It includes almost all the modules required for seamless college functions. These modules include attendance management, railway concession system, training and placement, staff details, staff record, identity card issuing etc. In existing system registration, student search, railway concession, attendance, feedback, exam records, etc. all these activities are performed manually by respective staff members.



FLOWCHART 1

The admin can view or update information about students and even the college staff in a simple manner. It helps in managing the student activities such as admission, registration. For example, when students fill the registration form,

the records are stored in the database and the details of the students will be displayed in the student's profile page. It is performed by retrieving information from the database table. The administrator can search the particular student by his/her enrollment number or student id. In the notification module the administrator can add notifications about upcoming events with start and end date. Admin can create a report of any student any time. Students can update their profile details and mention their technical skills in the work experience section. Students can also check course details online. This system manages all the information about all aspects of a college, its students, faculties, departments, marks and other curricular activities. The College Management System can store and manage all data of the various departments of a college like Administration, Attendance, Staff details, etc. using this system admin can retrieve any information related to student, teacher, and fees. In this system, the teacher can check student attendance anytime. This system also helps the teachers to announce the result. Admin can check leave, salary and other details of the teachers at any time. They can also create a timetable of classes from this system.



FLOWCHART 2

## 2. LITERATURE SURVEY:

An efficient and dynamic approach for online college management system was proposed by Srikant Patnaik, Khushboo Kumari Singh, Rashmi Ranjan, and Niki Kumari [1]. The smart system was designed by using PHP, SQL Server, HTML, and CSS. They used various modules like the student module, mess module, notices, registration module, and hostel module. Student module includes Students Profile details, Contact information, Educational details. Placement module includes details regarding the placement of students in which company they are placed and when they were placed. Notice module contains information about various events that are currently going on and which will occur in the near course of time. Notices help in quick capturing of any occurring event. Hostel management module includes features to manage hostel various room and food facilities come under the hostel management system. Shradha S. Chawhan, Mangesh P. Girhale, and Gunjan Mankar [4] worked on a Mobile Phone-Based Attendance System that helped faculty to mark the attendance of students using android devices. Faculty would login to the android application and take attendance using Smart-phone. After marking the attendance in the mobile, faculty would send it over to the server using the internet and the attendance is recorded automatically. Teachers can edit the attendance by login on to the website. Students can view their attendance as well as curriculum details on the website. For notifying students about regular activities email would be sent by the faculty.

## 3. METHODOLOGY:

### 3.1. Attendance Management:

#### 3.1.1 Existing system:

- The Existing system is a manual entry for the students. Here the attendance will be carried out in the handwritten registers. It will be a tedious job to maintain the record for the user. The human effort is more here. The retrieval of the information is not as easy as the records are maintained in the handwritten registers.
- Administrators need to inform attendance manually or by notice.

1.2 Proposed system

- Lecturers can take attendance on their mobile and attendance will get updated in the database.
- The system can create reports on attendance anytime when a teacher wants.
- Students and guardians can check the attendance of the student.
- The system will send emails to the parents of students who have an attendance of less than 75%.

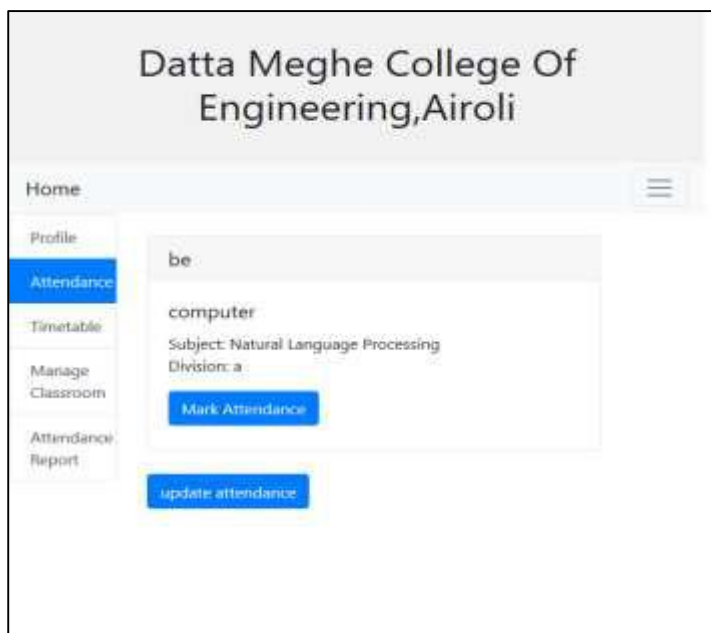


Figure 1.1. ATTENDANCE SYSTEM

Natural Language Processing			
student id	name	Attendance	
2	pprith bhadane	present	absent
12	Ahansa Bhoze	present	absent
26	Abhishek Bhoze	present	absent
16	Shubham Chitambar	present	absent
5	adham dhanu	present	absent
13	manasi gajwade	present	absent
27	Shubham Ganoli	present	absent
9	praful ghosh	present	absent
24	Poojaramani Ghate	present	absent
28	Hotel Ghumare	present	absent
11	rohini gombarkar	present	absent
14	harshvardhan helle	present	absent
20	Darshan Ingole	present	absent
17	Shubham Joshi	present	absent
25	Tijal Kamdar	present	absent
18	Rachit Kadambar	present	absent
15	Shreya Khatke	present	absent
19	Fareed Shaikh	present	absent
22	Kanchan Khosle	present	absent
23	Harsh Takur	present	absent

Figure:1.2 MARK ATTENDANCE

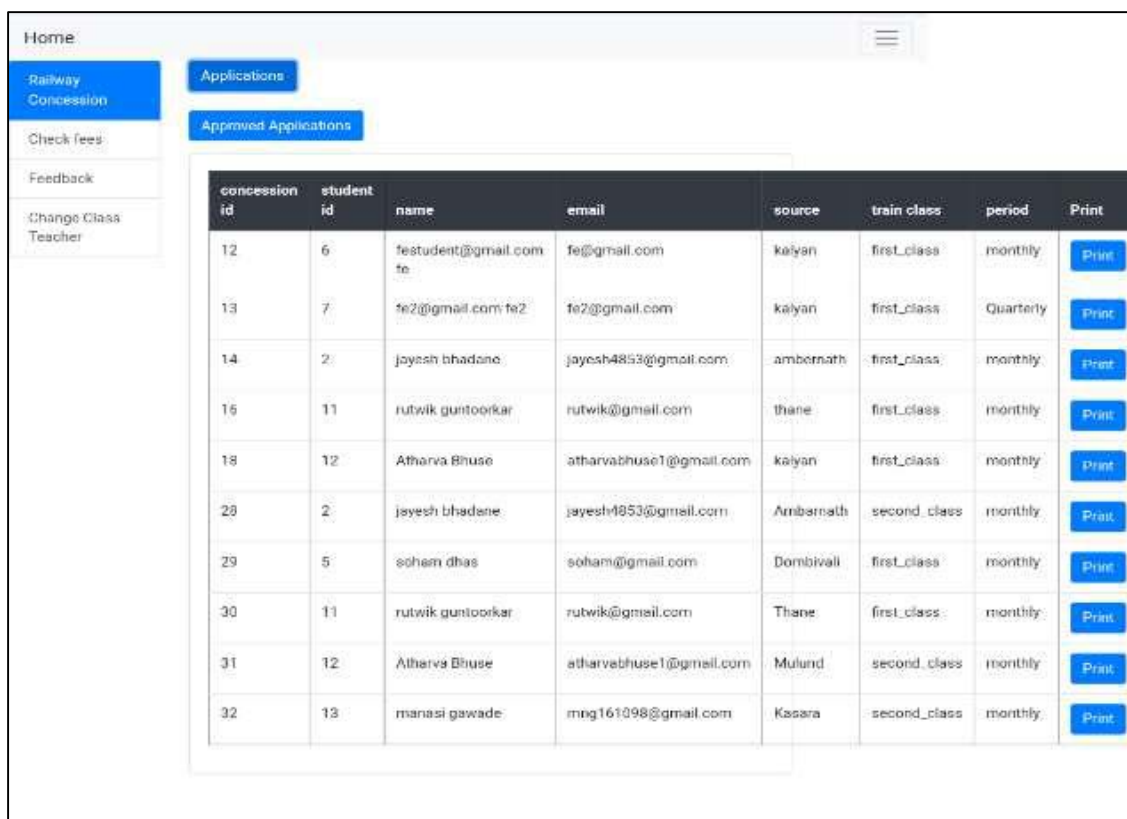
### 3.2. Railway concession:

#### 3.2.1 Existing system

• The Central and Western Railway, Mumbai send the educational institutes a stack of concession form booklets; each consisting of 50 forms. The concession pass that a student gets with the help of this form is valid for a duration of a month or three months depending upon the preference given by the student. And every time, the student has to get a fresh form. So this process of giving and taking concession forms goes all through the academic year.

#### 3.2.2 Proposed System

- Students will fill the online form and upload the documents required for concession.
- Respected staff will check the documents and information and decide whether a student is eligible or not for concession.
- If a student is eligible then pdf of his concession receipt will be generated and staff will print it.
- Email about the period in which students can collect concession receipts will be sent to the students if they are eligible.
- Students can collect their concession receipts in that period.



concession id	student id	name	email	source	train class	period	Print
12	6	festudent@gmail.com fe	fe@gmail.com	kalyan	first_class	monthly	Print
13	7	fe2@gmail.com fe2	fe2@gmail.com	kalyan	first_class	Quarterly	Print
14	2	jayesh bhadane	jayesh4853@gmail.com	ambarnath	first_class	monthly	Print
15	11	rutwik guntoorkar	rutwik@gmail.com	thane	first_class	monthly	Print
18	12	Atharva Bhuse	atharvabhuse1@gmail.com	kalyan	first_class	monthly	Print
28	2	jayesh bhadane	jayesh4853@gmail.com	Ambarnath	second_class	monthly	Print
29	5	soham dhas	soham@gmail.com	Dombivli	first_class	monthly	Print
30	11	rutwik guntoorkar	rutwik@gmail.com	Thane	first_class	monthly	Print
31	12	Atharva Bhuse	atharvabhuse1@gmail.com	Mulund	second_class	monthly	Print
32	13	manasi gawade	mng161998@gmail.com	Kasara	second_class	monthly	Print

Figure 1.3: RAILWAY CONCESSION

### 3.3. Training and placement:

#### 3.3.1 Existing System:

- Students have to fill the form for every company which visits college.

#### 3.3.2 Proposed System

- Separate list of students who are eligible and not eligible for placement are created at the beginning of the semester.
- Students who are placed will be removed from the eligible list. The student list can be retrieved from the database.

### 3.4. Feedback system:

#### 3.4.1 Existing system:

- In the Existing System, the feedback is done by the manual process. In the Existing System, students can give feedback about the lecturers by using paper and pen.

#### 3.4.2 Proposed system:

- Students can fill the online feedback form and then it is analyzed by the system and reports are generated.
- It reduces the paperwork and feedback is analyzed automatically.



The image shows a screenshot of a feedback system interface. It is divided into two main sections: 'college feedback' and 'laboratory feedback'. Each section contains a table with columns for 'Evaluation Criteria', 'Excellent', 'Good', 'Satisfactory', and 'Poor'. The 'college feedback' table lists criteria such as 'Development made by the college', 'Quality of the food of mess/cafeteria of the college', 'Level of discipline in activities of college', and 'Facilities provided by college'. The 'laboratory feedback' table lists criteria such as 'Availability of equipment material provided for the experiment', 'Quality of equipment material provided for experiment work', 'Guidance provided by the teacher during practical', 'Help given by the laboratory assistant', 'Level of cleanliness in laboratory provided', and 'Facilities regarding conduct of classes'.

Figure: 1.4 FEEDBACK SYSTEM

### 3.5. Identity card issuing:

#### 3.5.1 Existing system:

- Identity cards are printed every term by the respective department manually.

#### 3.5.2 Proposed System:

- Students' identity cards will automatically be generated after the successful completion of his/her admission process.

### 3.6. Notification Module:

This module allows the department admin to update students about any college-related information through notifications. The students can view notifications provided by the interface provided by the application. Admin can send messages to only available options like all students, all faculty, specific faculty and to all.

### 3.7. BENEFITS OF PROPOSED SYSTEM:

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. Students do not have to visit the college notice board every time. No chance of the mistake as calculations for attendance will be automated.

## 4. CONCLUSION:

Android and Web-Based Dynamic College Administration System provides an easy way to automate the functionalities of the college. It is an integrated platform that connects various departments of an institution like administration, staff, students as well as guardians. It provides reliability, time savings, and easy control. Information can be saved and can be accessed at any time by an authorized user. It includes almost all modules required for seamless college functions. These modules include attendance management, railway concession system, training and placement, staff details, staff records, identity card issuing, etc. It also facilitates exploring various events happening in the college such as exams, practical, submission, placements, annual events in the form of notifications.

## 5. ACKNOWLEDGMENT:

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