



# ERP Model for School or College Using Android App

**Prajakta R. Jadhav<sup>1</sup>, Harshwardhan K. Chougule<sup>2</sup>, Mansur H. Shikalgar<sup>3</sup>,**

**Poornima A. Jadhav<sup>4</sup>, Ass. Prof. Mr. S.R. Mali Sir<sup>5</sup>**

Student, Computer Science & Engineering, AITRC, Vita, India<sup>1</sup>

Student, Computer Science & Engineering, AITRC, Vita, India<sup>2</sup>

Student, Computer Science & Engineering, AITRC, Vita, India<sup>3</sup>

Student, Computer Science & Engineering, AITRC, Vita, India<sup>4</sup>

Assistant Professor, Computer Science & Engineering, AITRC, Vita, India<sup>5</sup>

**Abstract:** We propose, a robotized model for an Understudy The executives Framework for Adarsh Institute of Technology & Research Centre, Vita, Sangli. Being a robotized android application that changes over the conventional every client, its job, and its degree of pecking order in the establishment. Every client will fall on an alternate level of the progressive system pyramid and will be given its own arrangement of jobs and consent so there is no blend and match of client's liabilities. By utilizing the internet-based stage and our automated framework, the degree of productivity of the organization will increment ten times and bring the degree of nature of organization into that of the degree of schooling.

**Keywords:** Attendance, Student information, Mid-day meal details, Add new student details.

## I. INTRODUCTION

Customary framework which was principally paper-based, expected enormous measure of room to store data. It restricts the trading of data, refreshing and causes loss of documentation. A cooperative work in this situation becomes unbending and debases execution. This undertaking on understudy the executive's framework is one finished data the board answer for understudies and staff of any instructive establishment. In this day and age, it is a need to coordinate tremendous measure of information than at any other time. Without an extraordinary framework for resources, understudies and divisions, the executives to trade information, significant data about understudies and associations can be lost, which can lead to heaps of issues that can influence the standing of the association. For a scholastic foundation, the information dealing with ought to be a simple undertaking for which online methodology is an unquestionable necessity.

Following which the proposed framework involves web as the answer for worldwide access of information, record keeping and overseeing subtleties of understudies which makes the understudy the board framework unified. At one time, the school relied seriously upon paper records for this action [8]. Nonetheless, their utilization isn't as far and wide in colleges in India [9]. The Administration representatives can now effectively utilize this framework to make records, keep participation records, keep late morning feast records.

## II. PROBLEM STATEMENT

The following is the problem statement for ERP model for school or college using android app:

- To keep the data student safe and maintain the records easily.
- To keep the daily report of the meal details.

## III. OBJECTIVE

The following is the objective for ERP model for school or college using android app:

- To manage the students' information during admission.
- Efficient utilization of human resources.
- To reduce unnecessary paper work in maintaining student information.



#### IV. LITERATURE SURVEY

##### • Existing work

In a real-world scenario, such as college campus, the information is in the form of notice and in web sites. Existing system follows manual work for managing student details. Today it is of the essence to not only use the predictable forms of statement, but also use the new forms such as cell phone technology, for faster and easier communication among parents. A student management system helps a school manage data, communications, and scheduling. A school system generates and uses a large amount of data. This data must be communicated appropriately to students, faculty, and parents. A student management system helps schools to store, manage, and distribute this information. Student management systems provide many benefits to educational institutions, mostly stemming from centralized data management and accessibility. Teachers can more easily input, manage, and access student data.

##### • Proposed work

Student Information System is a software where students details are been setup by an accountant and marks are been setup by teacher. Required data is been retrieved by the principal. This system is a hierarchical structure. It contains certain numbers of actors. Each will have their respective actions. Students are to be registered dynamically. For each of the actor to perform their action, they must be logged in with their respective ids. It is a web application managing student's generated content. Earlier versions were to store the details of student. Here updating, retrieving actions are also been performed.

#### V. HARDWARE AND SOFTWARE USED

##### Software Used

1. Operating System (Windows 7)
2. Web server (IIS web server)
3. Database (SQL Server/MySQL)
4. Web Browser
5. Android Studio (Latest)
6. Documentation tool used Microsoft Office

##### Hardware Used

A desktop or laptop computer for the system users with the following specifications:

- Intel core 2 duo Processor 2.4 MHz or next.
- Minimum 2 GB RAM DDR2 or Higher.
- Minimum 250 GB storage space.

#### VI. TECHNOLOGY DETAILS



Fig. 1.1 Android Studio



- Android Studio is the official integrated development environment (IDE) for Android application development
- It has a flexible Gradle-based build system.
- It provides build-in supports for Google Cloud Platform. It makes it easy to integrate Google Cloud Messaging and App Engine

## VII. OPEN CV

### • Open-CV

- (Open-Source Computer Vision Library) is a BSD-certified, open-source library that contains a tonne of computer vision algorithms. Due to Open-modular CV's design, the package comprises of a number of shared or static libraries.

There are the following modules accessible:

- Login Module
- Registration Module
- Class Module
- Attendance Module

### • Modules of Project:

#### Module One:

##### 1] Login Module

- This will help users to login into the system using institute id and password. A user who has the valid id and password can only log in to their respective accounts.
- It will help the authentication of the user who enters the system. The module provides a layer of security over the system as only authorized personnel can login into the system.

#### Module Two:

##### 2] Registration Module

- In this module, the student will get registered as it is new in the educational institute. It will be formed like a structure where all the student details will be filled.
- It will have the fields regarding their personal information like date of birth and address along with that it will also ask its professional details of previous education if it has.
- As this module is present online, the student can register them from anywhere on the internet is present. After registration information will go to the admin for authentication.

#### Module Three:

##### 3] Class Module

- Each student will be able to select various class present in the system. It will be published by the administrator under the specific department.
- Every class has the qualification criteria, it will be available to those students who are eligible for it. The student will pick the course from the given choices according to his/her interest.

#### Module Four:

##### 4] Attendance Module

- This module is one of the essential parts of the system as this will act as the official document of student presence in the institution. It will show the attendance of the student in every class.



VIII. SYSTEM ARCHITECTURE

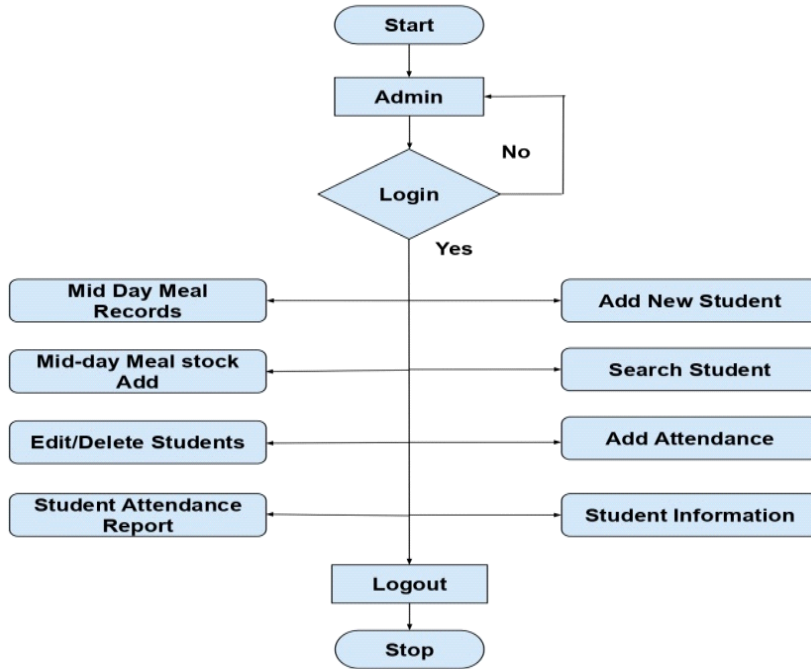


Fig. 1.2 System Architecture

XI. ACTIVITY DIAGRAM

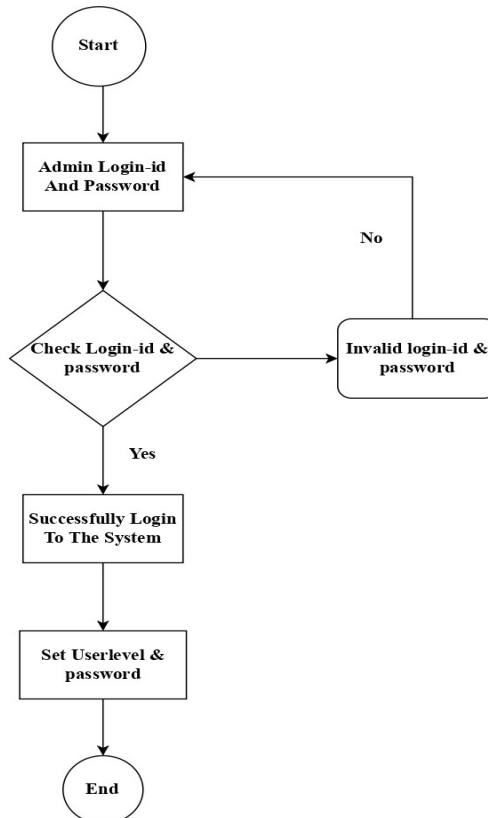


Fig. 1.3 Activity Diagram



## X. RESULTS

- Login Page:

10:42 50% 87%

### Login

Registered Mobile Number

Password

LOGIN

- Home Page:

10:43 50% 87%

TSM

उपस्थित टांके प्रमाण

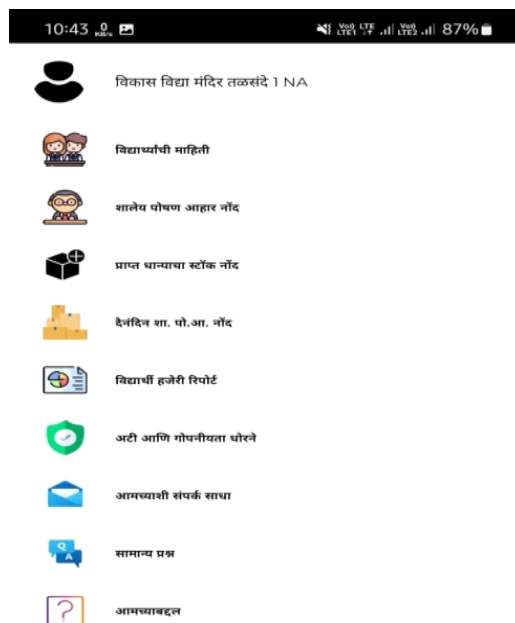
एकूण विद्यार्थी

अनुपस्थित विद्यार्थी

Attendance New Form Others



• Other Pages:



## XI. ADVANTAGES

1. It's user-friendly.
2. Student's data is highly secured in this software.
3. Only the administrator has a right to register a student in database.
4. Faculty or student has a right to retrieve the details of a student.
5. Only teacher has the right to update the marks of a student.

## XII. APPLICATION

• **Helps to maintain the records of all students:**

Not only academics, School monitors the overall personally grooming, including sports, recitation, music, dance, aerobics, swimming, etc. Student management system keeps the proper track and documentation of extracurricular activities, making sure that the record of every student is intact.

• **Reduction of Human Labor, Papers, and Workload:**

The cost and time invested in employing staff to direct all the School's day-to-day events is an extra cost that could be easily cut down by implementing this new open-source administration management technology. It also decreases the usage of written materials, human errors, and staff workload.



## XIII. CONCLUSION

The administrator can login and enter every one of the important subtleties of the understudy like, data of new understudy, participation of the understudy, and so on.

## REFERENCES

- [1] Pattamaporn Kormpho, Panida Liawsomboon, Narut Phongoen, SiripenPong paichet, 'Smart Complaint ManagementSystem', 7th International Student Project Conference 2018.
- [2] Maryam Albahr, Muntaha Al Suhaibani, Mutasem k. Alsmadi, Daniah Alraihi, 'Developing and implementing a barcode based student attendance system', International Research Journal of Engineering and Technology (IRJET) eISSN: 2395- 0056 Volume:06 Issue: 1 | Jan 2019.
- [3] Ram Krishnan, Varun Vikraman, Jisha R C, 'Mobile Applications Recommendation Based on User Rating and Permissions', International Conference on Advances in Computing,Communication and Informatics, 2018.