

SYNOPSIS OF

MULTIPLATFORM ACCOUNTING & FEE ENQUIRY SYSTEM

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Engineering & Technology, V.B.U.*



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CERTIFICATE

This is to certify that the project entitled
**“Multiplatform Accounting & Fee Enquiry
System”**

Submitted in partial fulfilment of requirement of the degree

BACHELOR OF TECHNOLOGY

is a result of a bonafide work carried out by

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ACKNOWLEDGEMENT

Every successful completion of any undertaking would be complete only after we remember and thank the almighty, the parents, the teachers and all the personalities, who directly or indirectly helped and guided during the execution of that work. The success of this work is equally attributed to all well-wishers who have encouraged and guided throughout the execution.

First and Foremost, I express my deepest gratitude to my mentor and coordinator **Mr. Arun Kumar Mishra, Dept. of CSE, UCET** for his guidance and assistance throughout the project with great interest. I am grateful to our coordinator for his constant encouragement and assistance during the project work.

I am very thankful to **Mrs. Geeta Sinha, HOD, Dept. of CSE, UCET** who has been a source of perpetual inspiration to us throughout our **B.Tech** curriculum. I would like to express my profound gratitude and sincere acknowledgements to **Dr. V.K. Sinha, Director**, for his support and help throughout our course and I am grateful to **UCET, Hazaribag** which has given us a Bright Future.

Finally, I would like to place my honest and sincere thanks to my parents, teachers, my friends and all those who helped me directly or indirectly in successful completion of this project work.

Thanking You,

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1. Introduction

1.1 Objective of project:

To provide an Online Account Management System for colleges, which would offer all accountancy functionalities.

The college would be able to keep student fee records online. At first accountant will create a student profile by viewing the allotment letters of the students. Further the accountant could add fee details to the respective profiles after receiving proper fee payment details by the student. And he could also view the current details (i.e. personal and fee) when required.

Students Database System deals with all the activities done by computer such as admission process, Fee payment, etc. all these processes are handled by computer management system.

The respective forms feed the information that is required for admission or fees updates to maintain the student records.

1.2 Rational:

To improve services and reduce paperwork.

1.3 Scope of Project:

- To make the existing system more efficient.
- To provide a user-friendly environment where user can be serviced better.
- Make functioning of Accounts Department faster.
- Provide a system where the Account staff can catch defaulters and not let them escape.

1.4 Technologies Used: -

1. Java SE
2. Android SDK
3. MySQL
4. JDBC

2. Project Requirements

2.1 Functional requirements:

- Admission Form, Roll Number, Name, Branch, Session, and identification must all be unique as they form the primary keys of the respective tables.
- All new Student must be Filled in the Admission table first by Accountant, to avoid problems later.
- While inserting values in the database, only valid values must be entered.

2.2 Data Requirements:

- The Account Management System shall be required to maintain information about its Student's Fee.
- It shall store databases for Student's personal details and fees.
- The student database stores information about a student's Roll no, Name, Address, Course, Fee, Contact No. and Session.

2.3 Software requirements:

For development of the proposed system following softwares are required:

- 1. Any OS**
- 2. JDK Above Java 1.2(for desktop app)**
- 3. Android Studio (for android app)**

2.4 Hardware requirements:

2.4.1 For Multiplatform app:

1. Minimum Pentium 2 - 266 MHZ processor
2. Disk space(HDD) of 130 MB(126 MB for JRE + 4 MB for program)
3. Memory(RAM) of 128 MB
4. Other Necessary input & Output Devices
5. Internet Connectivity

2.4.2 For Android app development (in Windows):

1. 3GB RAM minimum, 8GB RAM recommended, 1GB for the Android Emulator.
2. 2 GB available disk space minimum, 4 GB recommended.
3. 1280 x 800 minimum screen resolution.

3. Overall Description

The Account Management System automates the basic Account functions to add in the day-to-day operations of an Account Section. It supports functions such as admission, Fee Inquiry, the very basic functions of searching for a particular Student Academic Fee Status, etc.

It also maintains Students Fee Deposit records that are required during First to Last semester. The software aims to make the system user friendly and efficient.

The functions that the Account Management System provides are as follows:

- Admission
- Fee Payment
- View Record

3.1 Admission: -

This operation is performed when new data needs to be added to the system, for e.g. when department takes admission of a new Student, the Student's entry is inserted in the Account database.

3.2 Fee Payment: -

This function updates data in the various records. That means whenever the students pay their fees and submits the challan, proper data is to be inserted about the fee payment and other transaction details.

3.3 View Record: -

This function is used to search particular data from the database. In this function roll number of a specific student is to be inserted and the program gives out the personal and fee details of the student.

4. Entity Relationship Diagram

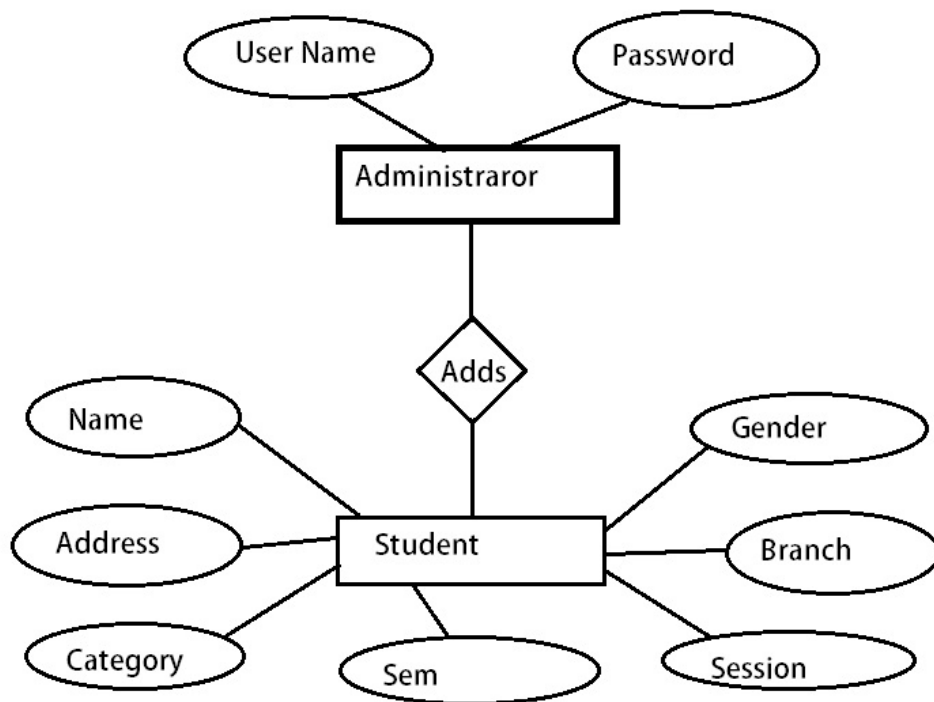


Fig 4.1 ER diagram For Administrator.

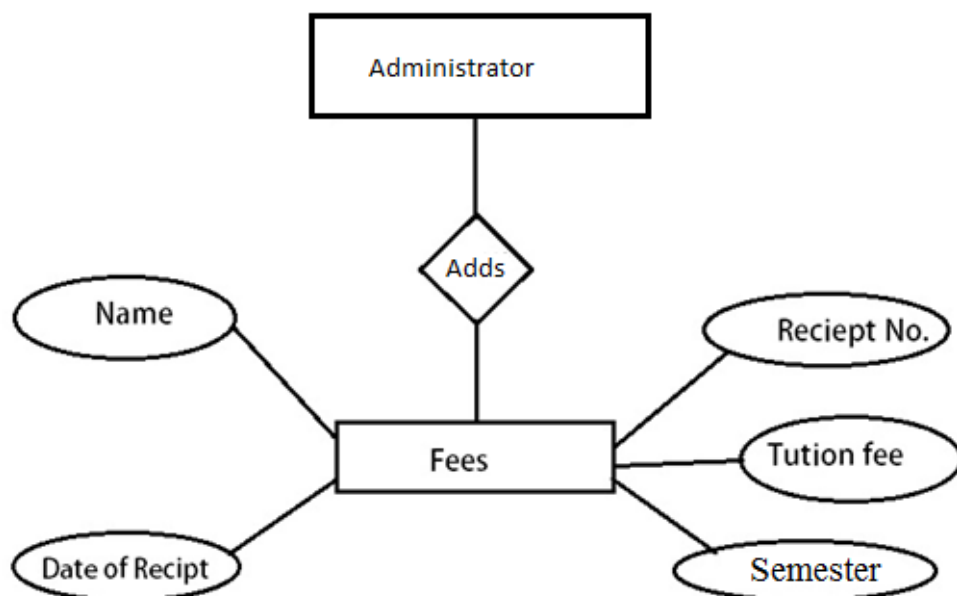


Fig 4.2 ER Diagram for fee details.

5. Overview

5.1 Desktop Application Overview:

A multiplatform graphical user application which will help the accountant to store and retrieve specific data from the database.

It will allow only authorised user to login and view details.

Accountant can :

- 1) Create new student details.
- 2) Add fee details for existing students.
- 3) View the details of any student using their roll number.

Output (Screenshots): -

Login :

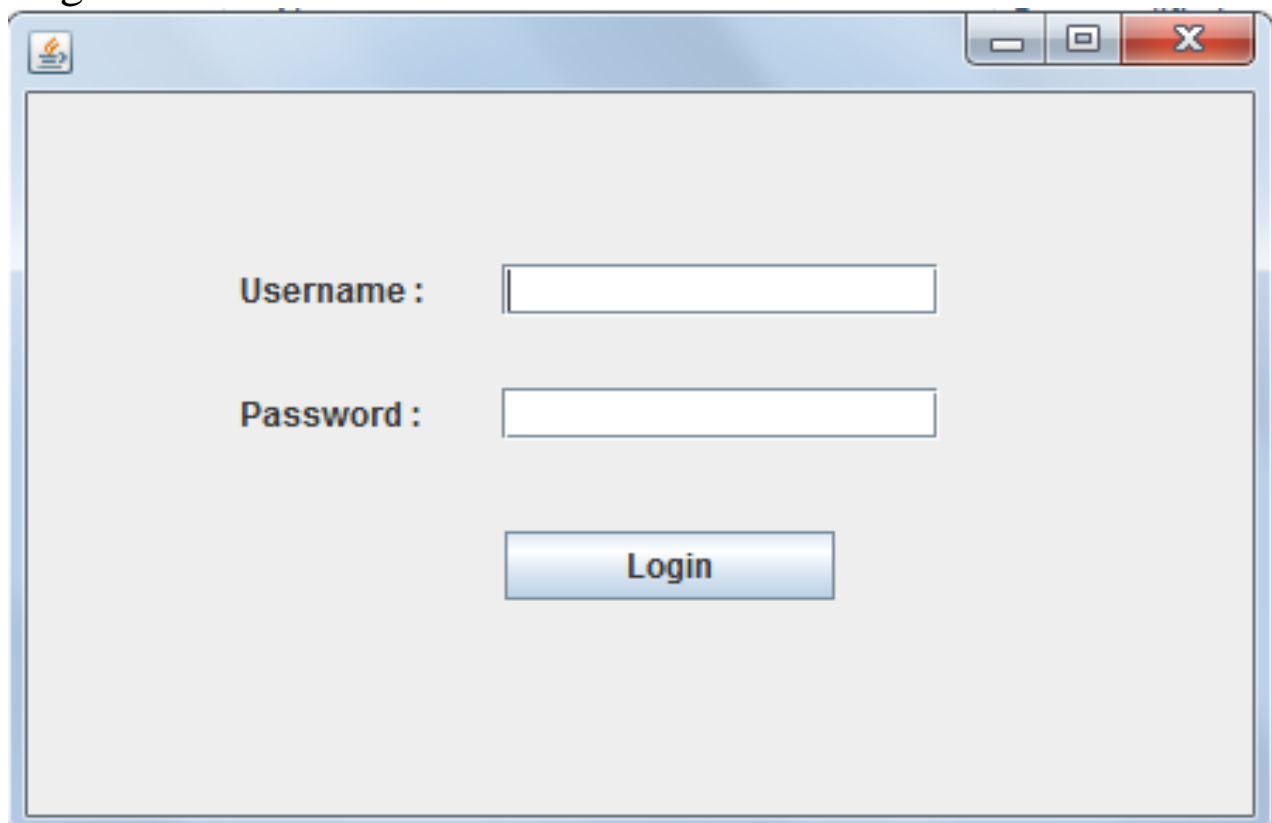
A screenshot of a desktop application window titled "Login". The window has a standard Windows-style title bar with minimize, maximize, and close buttons. The main content area is light gray and contains three elements: a "Username :" label followed by a text input field, a "Password :" label followed by a text input field, and a "Login" button centered below the input fields. The button is blue with a gradient and a shadow effect.

Fig 5.1.1 Login page

Select:

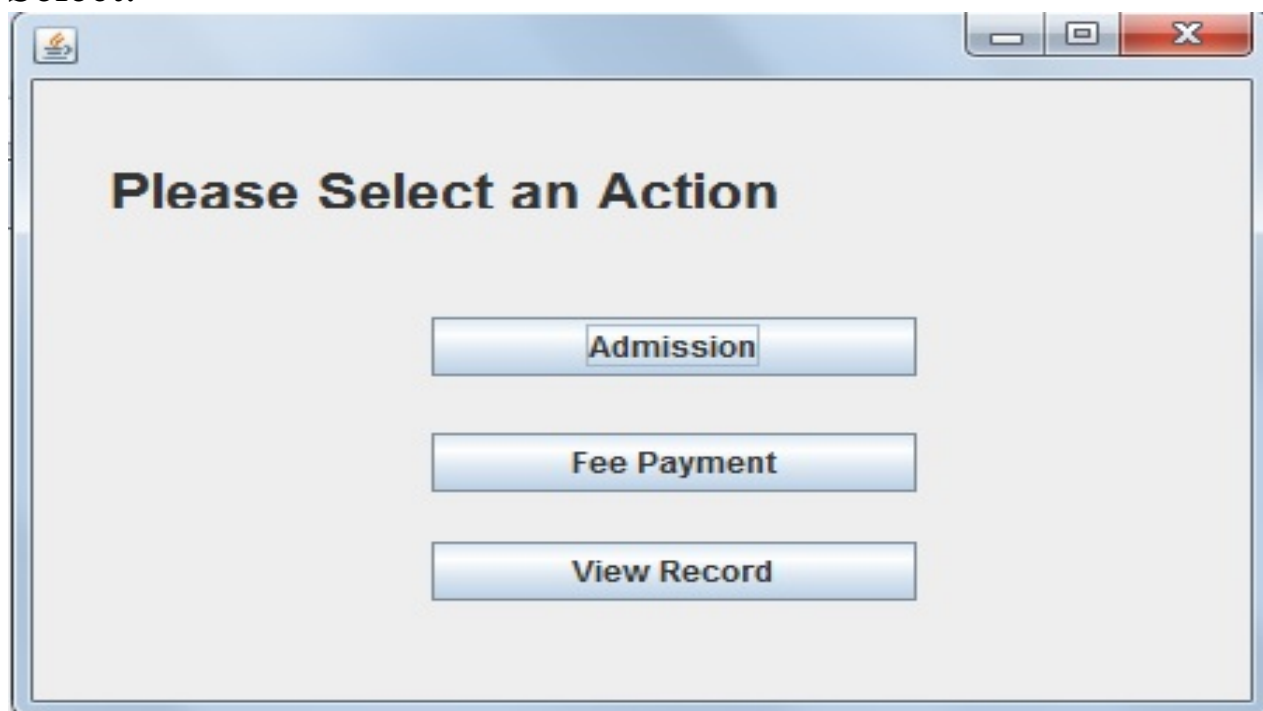


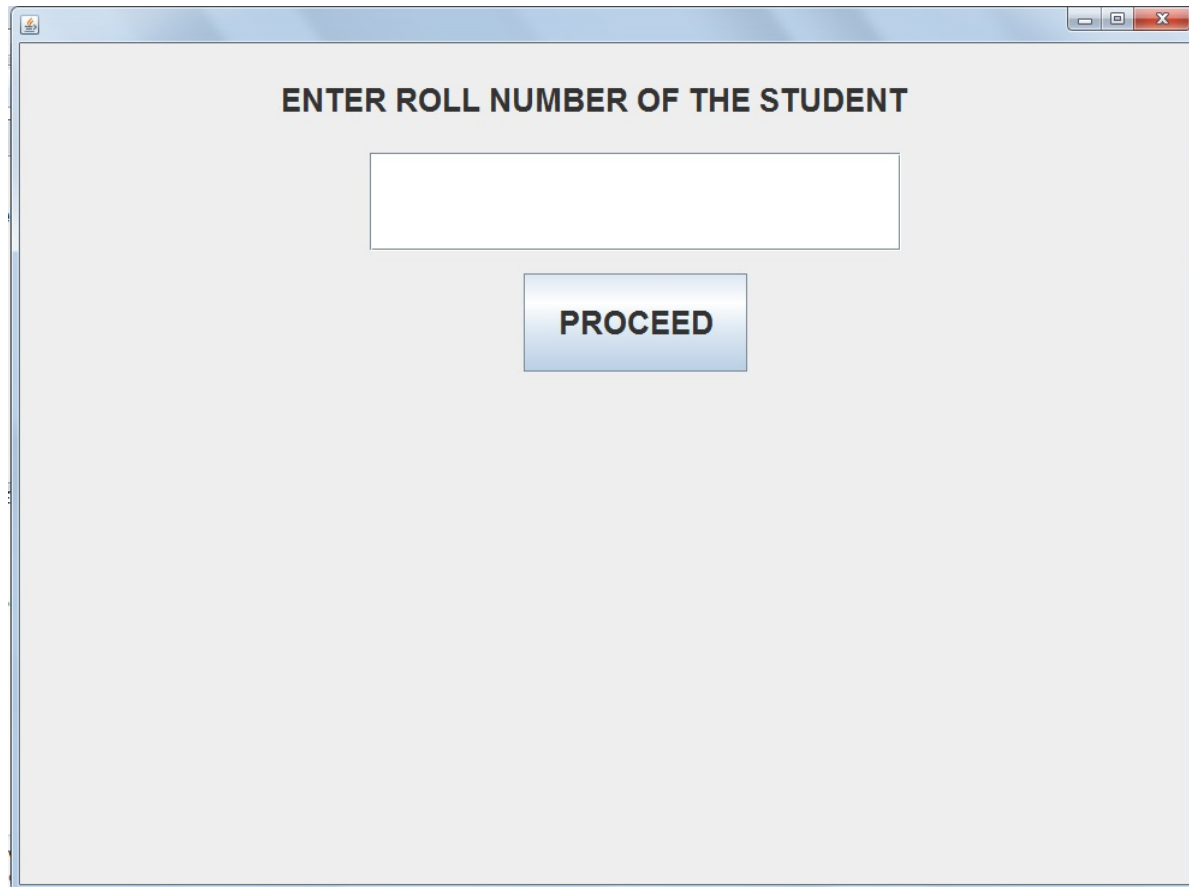
Fig 5.1.2 Select action

Enter Details:

A screenshot of a web application window titled "ENTER STUDENT DETAILS". The window has a title bar with standard minimize, maximize, and close buttons. The main content area is light gray and contains several input fields with labels and hints. The fields are: "Name : *" with a text input; "Roll : *" with a text input and a hint "[HINT] : ROLL numbers must be Numerical Digits only, ex 1309144"; "Branch : *" with a text input and a hint "Select Your Branch From : [ME, CSE, ECE, IT]"; "Session : *" with a date range input and a hint "[HINT] [Session Start Year - Session End Year]"; "GEN/TFW : *" with a text input and a hint "Select From : [GEN, TFW]"; "Address : *" with a text input and a hint "ENTER your Address here (Max 50 characters)"; "Mobile No. : *" with a text input and a hint "ENTER your 10 digit Mobile number"; "Father's Name : " with a text input; "Mother's Name : " with a text input; "e mail id : *" with a text input and a hint "ENTER your e-mail id (example : username@service.com)"; and "Category : *" with a text input and a hint "Select From : [GEN, ST, SC, OBC]". At the bottom center is a button labeled "Submit Admission Form". The Windows taskbar is visible at the bottom of the screen.

Fig 5.1.3 Sample Form

Enter Roll No. (for adding fee and viewing details):



ENTER ROLL NUMBER OF THE STUDENT

PROCEED

Fig 5.1.4 Enter roll no. for viewing details

5.2 Android Application Overview:

An android application that will allow only authenticated user to enter after giving a proper username and password.

Then user can view the details of a student by entering their roll number.

Output (Screenshots): -

Login:

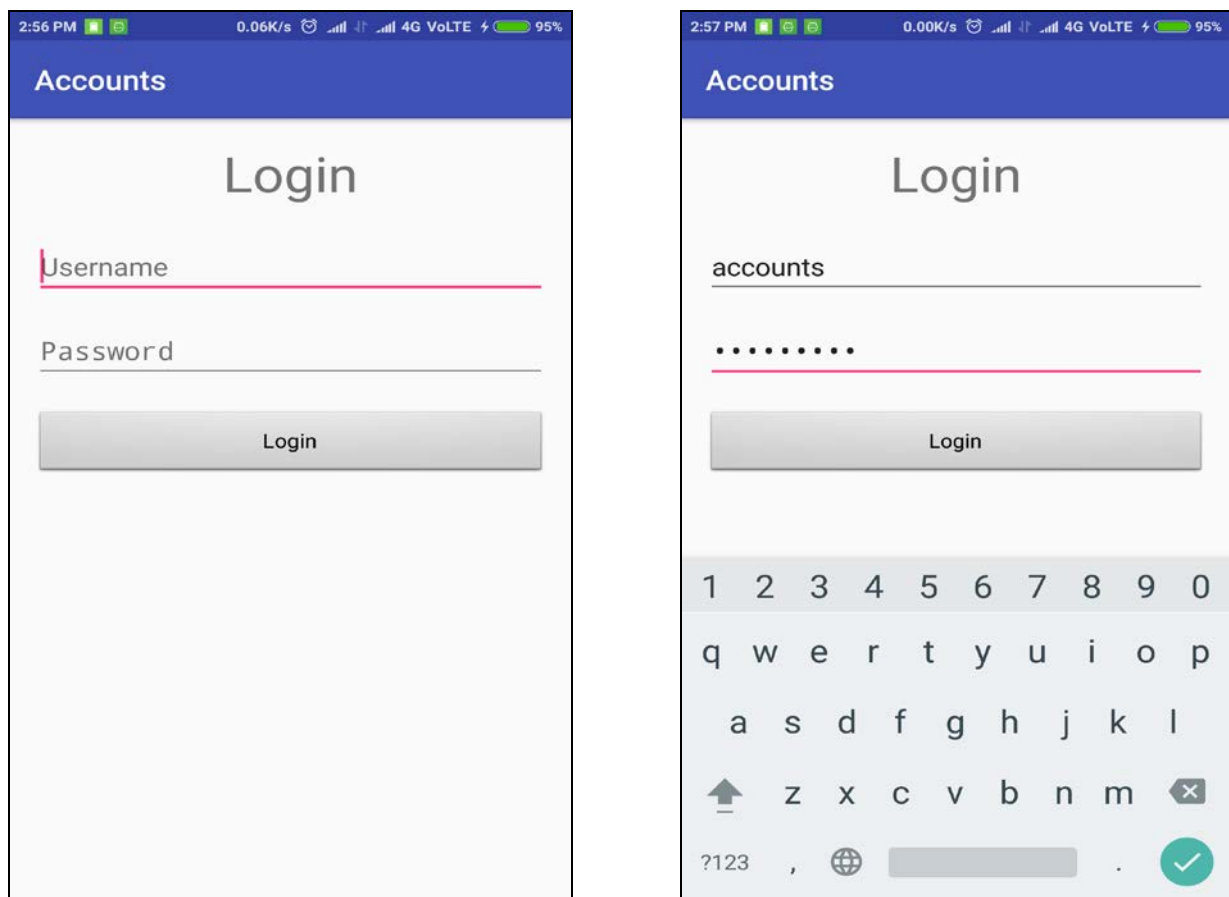
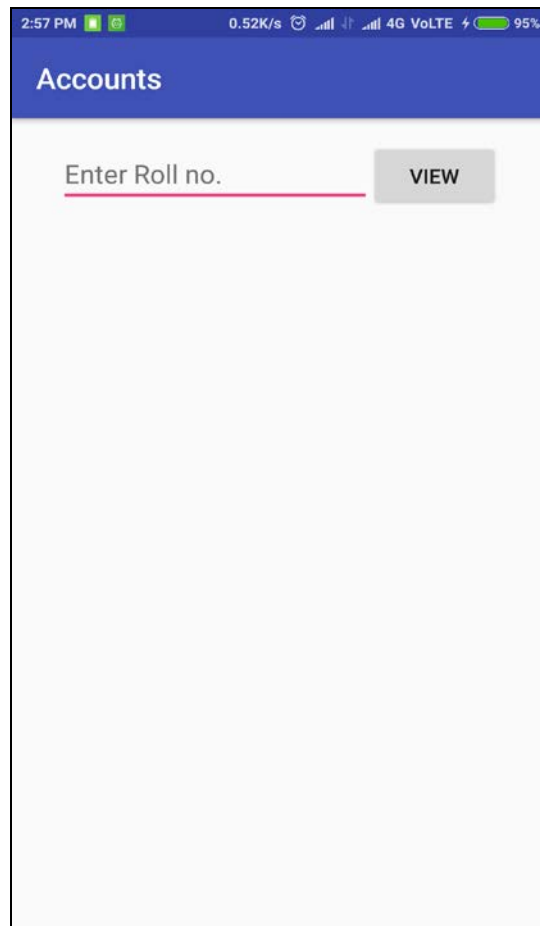


Fig 5.2.1 First Page of the app

View Details:



The screenshot displays a mobile application interface titled "Accounts" in a blue header bar. Below the header, there is a text input field with the placeholder text "Enter Roll no." and a red underline. To the right of the input field is a grey button labeled "VIEW". The status bar at the top of the screen shows the time as 2:57 PM, a green notification icon, a green battery icon, a speed indicator of 0.52K/s, a clock icon, signal strength bars, 4G VoLTE connectivity, and a battery level of 95%.

Fig 5.2.2 Second Page of the app

6. Conclusion

All the registration of students from various institutions were done manually and normally, it was taking 10-15 days to process the applications. There was also chance of applications to be overlooked due to manual interference. This software will eliminate all those discrepancies and process the entire movement within 2-3 days depending upon the availability of concerned persons. This will not only automate the entire process but it will give the required details depending upon the requirement of the organization and cater the needs of respective organization.

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