STUDENT RECORD MANAGEMENT APP

A Report Submitted The Department of

INFORMATION TECHNOLOGY
and
ARTIFICIAL INTELLIGENCE & DATA SCIENCE

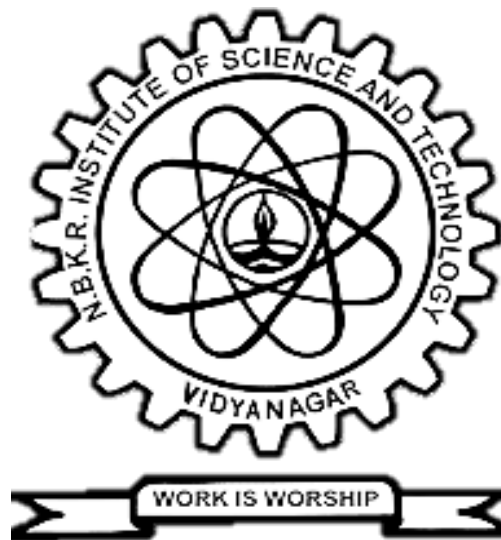### By

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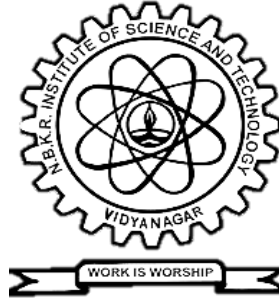
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BONAFIDE CERTIFICATE

      This is to certify that the project work entitled "**STUDENT RECORD MANAGEMENT SYSTEM APP**" is a bonafide work done by M.VENGABABU, G.SAKETH REDDY, J.SUNIL in the department of **INFORMATION TECHNOLOGY AND ARTIFICIAL INTELLIGENCE & DATA SCIENCE, N.B.K.R Institute of Science & Technology, Vidyanagar** and is submitted to department of IT and AI&DS. This work has been carried out under my supervision.

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Problem statement

The existing manual system of managing student records in educational institutions is time-consuming, error-prone, and lacks efficiency. The process of maintaining and retrieving student information, such as personal details, academic performance, attendance, and disciplinary records, is cumbersome and often leads to inaccuracies and delays. Additionally, the manual system makes it challenging to generate comprehensive reports, track student progress, and communicate effectively with parents or guardians.

Therefore, there is a need for a Student Record Management System that automates and streamlines the process of storing, managing, and accessing student information. This system should provide a centralized database to store all relevant data securely, enable easy data entry and retrieval, facilitate efficient report generation, and support effective communication between the educational institution, students, and parents/guardians. The system should also have appropriate access controls and user permissions to ensure data privacy and security.

By addressing these challenges, the student Record management system aims to enhance the overall efficiency, accuracy, and productivity of managing student records, improving the educational institution's administrative process and providing a better experience for students and staff members.

Executive summary

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Introduction:

The Student Record Management System (SRMS) is a comprehensive software solution designed to streamline and automate the management of student records in educational institutions. It offers an efficient and secure platform for recording, storing, and retrieving student information, resulting in improved administrative processes and enhanced data accuracy. This executive summary provides an overview of the key features, benefits, and potential impact of implementing the SRMS in an educational institution.

Key Features:

Centralized Database: The SRMS provides a centralized database to store and manage student records, including personal information, academic performance, attendance, and disciplinary records. This eliminates the need for manual record-keeping and minimizes the chances of data duplication or loss.

User-Friendly Interface: The system offers a user-friendly interface that enables administrators, teachers, and staff to easily navigate and input/update student information. It reduces the learning curve for new users and facilitates efficient data entry and retrieval processes.

Academic Performance Management: The system allows teachers to record and manage students' academic performance, including grades, assessments, and progress reports. It generates report cards automatically, saving time and effort for teachers, and provides timely access to performance data for parents and students.

Communication and Collaboration: The SRMS facilitates effective communication and collaboration among stakeholders, including teachers, students, parents, and administrators. It provides a messaging system, event notifications, and online portals for parents to access their child's records, enabling seamless information sharing and enhancing parental engagement.

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CHAPTER 1

Introduction

In today's rapidly evolving educational landscape, the efficient management of student records is crucial for educational institutions. Student record management encompasses the process of collecting, organizing, storing, and retrieving student information, including personal details, academic performance, attendance records, and disciplinary history. The traditional manual methods of managing these records are outdated, cumbersome, and error-prone. As a result, educational institutions are increasingly turning to technology-driven solutions, such as Student Record Management Systems, to streamline and automate these processes.

The Student Record Management System is a comprehensive software application designed to handle the diverse and complex aspects of student data management. It provides a centralized database that allows educational institutions to store, manage, and access student information efficiently. This system eliminates the need for manual record-keeping and significantly reduces the administrative burden on staff members, enabling them to focus more on core educational activities.

The primary objective of implementing a Student Record Management System is to improve the overall efficiency, accuracy, and productivity of managing student records. By digitizing and automating the record-keeping process, institutions can minimize human errors, reduce paperwork, and enhance data integrity. Moreover, the system provides quick and easy access to student records, enabling staff members to retrieve information promptly and make informed decisions.

One of the key advantages of a Student Record Management System is the ability to generate comprehensive reports and analytics. Educational institutions can leverage this feature to extract meaningful insights from student data, such as academic performance trends, attendance patterns, and demographic information. These insights can inform data-driven decision-making processes, enabling institutions to identify areas for improvement, implement targeted interventions, and enhance student outcomes.

Additionally, a well-designed Student Record Management System facilitates effective communication between educational institutions, students, and parents or guardians. The system can send automated notifications regarding important updates, such as examination schedules, assignment deadlines, or parent-teacher meetings.

Data security and privacy are paramount considerations when implementing a Student Record Management System. The system should have robust access controls, ensuring that only authorized personnel can view or modify sensitive student information. It should comply with data protection regulations and employ encryption techniques to safeguard data integrity and prevent unauthorized access or breaches.

In conclusion, a Student Record Management System is an indispensable tool for educational institutions seeking to streamline their administrative processes and enhance student record management. By digitizing student records, automating data entry and retrieval, generating comprehensive reports, and facilitating effective communication, these systems significantly improve operational efficiency, data accuracy, and overall productivity. Educational institutions that embrace technology-driven solutions for student record management are better equipped to meet the evolving demands of the educational landscape and provide a seamless experience for students, parents or guardians, and staff members.

1.1 Components used in student record management system

A Student Record Management System typically consists of several components that work together to provide a comprehensive solution for managing student records. The specific components may vary depending on the system's design and implementation, but here are some common components found in such systems:

1. **Database:** The database component serves as the central repository for storing student information. It includes tables and fields to store data such as student demographics, academic performance, attendance records, disciplinary history, and contact information.

2. **User Interface:** The user interface component allows authorized users, such as administrators, teachers, and parents or guardians, to interact with the system. It provides a graphical interface through which users can perform actions like data entry, data retrieval, report generation, and communication.

3. **Authentication and Access Control:** This component ensures that only authorized users can access and manipulate student records. It includes features like login screens, password management, and user role management to enforce security and privacy measures.

4. **Data Entry Module:** The data entry module enables users to input and update student information. It typically includes forms or templates for entering data related to personal details, academic records, attendance, and others

5. **Data Retrieval and Search:** This component allows users to search and retrieve specific student records based on various criteria, such as student ID, name, grade level, or enrollment year. It may include advanced search capabilities and filtering options to facilitate quick and efficient data retrieval.

6. **Reporting and Analytics:** The reporting and analytics component enables users to generate comprehensive reports and analyze student data. It may include pre-defined report templates for common queries, as well as custom report generation options. This component allows educational institutions to track student performance, identify trends, and generate insights for informed decision-making.

7. **Communication and Notifications:** This component facilitates communication between educational institutions, students, and parents or guardians. It may include features such as automated email notifications, messaging systems, and portals where parents or guardians can access student information and receive updates on academic progress, attendance, and important announcements.

1.2 OBJECTIVES:

The objectives of a Student Record Management System are as follows:

1. **Efficient Data Management:** The primary objective of a Student Record Management System is to streamline the process of managing student records. It aims to replace manual record-keeping methods with an automated system that can efficiently store, organize, and retrieve student information. By eliminating paperwork and reducing administrative tasks, the system improves operational efficiency and saves time for educational institutions.

2. **Accurate and Reliable Dat**a: Another objective is to ensure the accuracy and reliability of student data. Manual record-keeping is prone to errors and inconsistencies, leading to data inaccuracies. A Student Record Management System enforces data validation checks and provides standardized data entry formats, minimizing errors and improving data integrity. This ensures that the student records are reliable and up-to-date.

3. **Easy Data Retrieval:** The system aims to facilitate quick and easy retrieval of student information. Users can search for specific student records based on various criteria, such as student ID, name, or enrollment year. This objective helps staff members retrieve the required information promptly, saving time and improving overall productivity.

4. **Comprehensive Reporting:** A Student Record Management System enables the generation of comprehensive reports and analytics. This objective helps educational institutions analyze student data and generate meaningful insights. Reports can include information on academic performance, attendance records, disciplinary history, and demographic trends. These reports assist in data-driven decision-making processes, identifying areas for improvement, and monitoring student progress.

1.3 Scope of student record management system:

The scope of a Student Record Management System encompasses the range of functionalities and features it offers, as well as the extent of its application within an educational institution. The scope typically includes the following aspects:

1. **Student Data Management:** The system covers the management of various student data, including personal information (such as name, address, contact details), demographic details, enrollment history, academic records (grades, courses taken, class schedules), attendance records, disciplinary records, and any other relevant information related to students.

2. **User Roles and Permissions:** The system defines different user roles and permissions to ensure appropriate access and security. It allows administrators, teachers, parents or guardians, and other authorized personnel to perform specific actions and access relevant student information based on their roles and permissions.

3. **Data Entry and Maintenance:** The system provides data entry forms or interfaces for authorized users to input and update student information. It includes validation checks to ensure data accuracy and integrity. The system also enables the maintenance of records by allowing updates, corrections, and additions as needed

CHAPTER 2

SYSTEM SPECIFICATION

2.1 HARDWARE & SOFTWARE REQUIREMENTS

2.1.1 H/W Configuration:

1. Processor   :   I5/intel processor
2. Disk space   :   10 GB
3. RAM   :   8 GB
4. Display   :   1280*800 pixels

2.1.2 S/W Configuration:

1. Operating system   :   windows 10/11
2. IDE   :   Android Studio
3. Libraries Used   :   SQLITE.
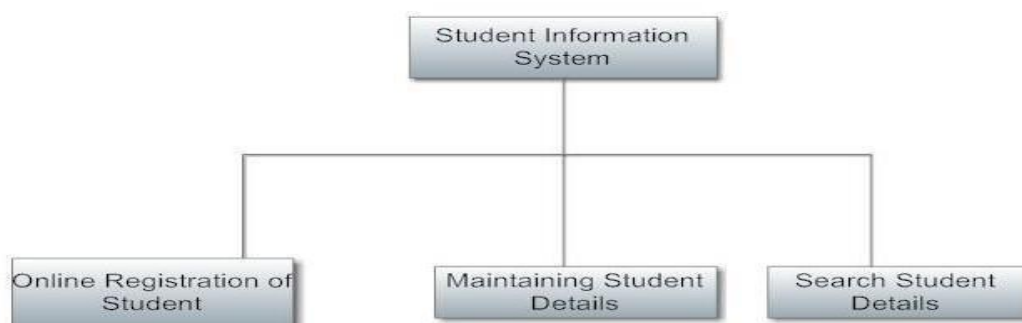4. Technology   :   Java, XML.

2.2 ARCHITECTURE

Fig: Architecture

2.3 SOFTWARE INSTALLATION FOR ANDROID STUDIO

Download:

1. Open any web browser and navigate to the Android Studio download page.

2. Click Download Android Studio. The Terms and Conditions page with the Android Studio License Agreement opens.

3. Read the License Agreement.

4. At the bottom of the page, if you agree with the terms and conditions, select the I have read and agree with the above terms and conditions checkbox.

5. Click Download Android Studio to start the download.

6. When prompted, save the file to a location where you can easily locate it, such as the Downloads folder.

7. Wait for the download to complete.

Install:

1. Open the folder where you downloaded and saved the Android Studio installation file.

2. Double-click the downloaded file.

3. If you see a User Account Control dialog about allowing the installation to make changes to your computer, click Yes to confirm the installation.

4. After the downloading has finished, open the file from downloads and run it. It will prompt the following dialog box. Click on next. In the next prompt, it'll ask for a path for installation. Choose a path and hit next.

5. It will start the installation, and once it is completed, it will be like the image shown below. Click on next.
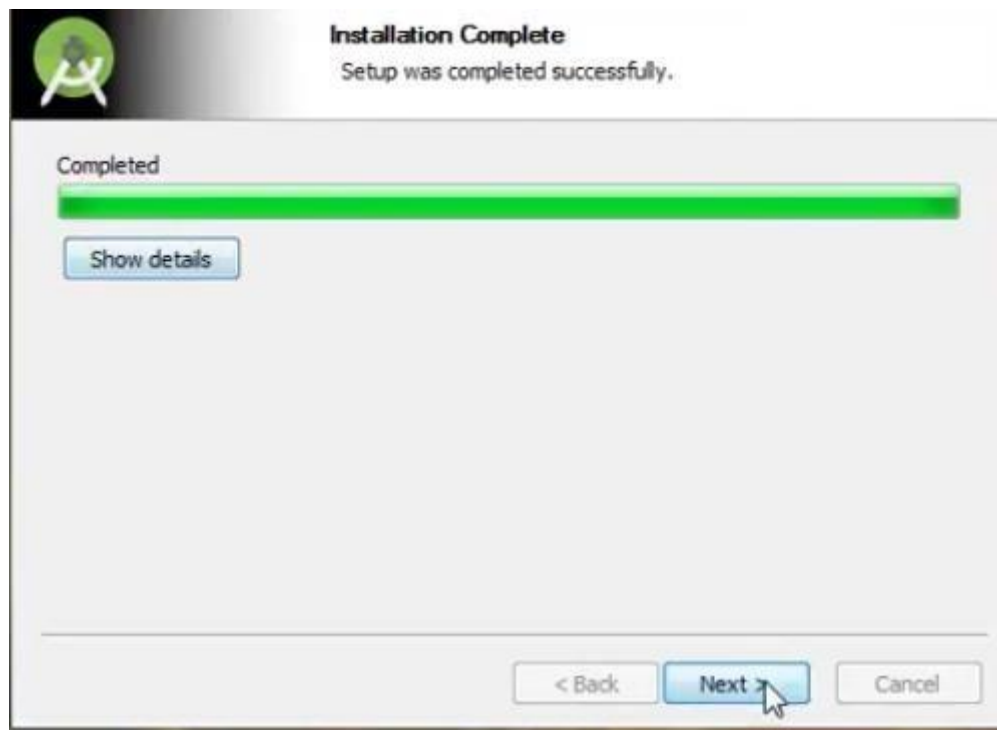
6. Once "Finish" is clicked, it will ask whether the previous settings need to be imported [if the android studio had been installed earlier], or not. It is better to choose the 'Don't import Settings option'. Click ok.

7. This will start the Android Studio.

8. Now it is time to download the SDK components.
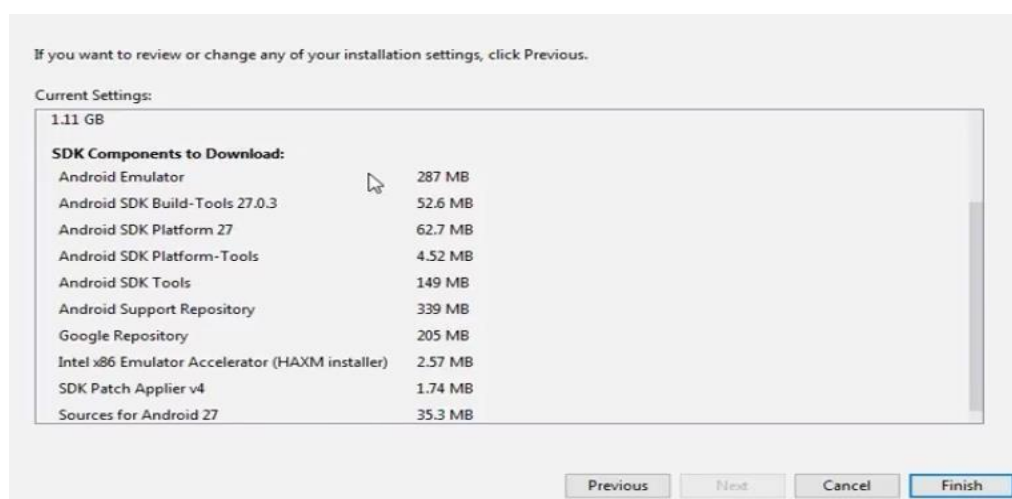
9. Click on to finish. The installation will be completed

CHAPTER 3

SOURCE CODE

XML FILES:

acticity_main.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.drawerlayout.widget.DrawerLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/my_drawer_layout"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity"
    tools:ignore="HardcodedText">
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content">
        <TextView
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_marginTop="128dp"
            android:gravity="center"
            android:text="STUDENT MANAGEMENT SYSTEM"
            android:textSize="28sp" />
    </LinearLayout>
    <ImageView
        android:id="@+id/imageView"
        android:layout_width="187dp"
        android:layout_height="171dp"
        android:alpha="0.1"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.005"
```

```xml
        app:srcCompat="@drawable/img" />
    <com.google.android.material.navigation.NavigationView
        android:layout_width="wrap_content"
        android:layout_height="match_parent"
        android:id="@+id/nav_menu"
        android:layout_gravity="start"
        app:menu="@menu/navigation_menu"/>
</androidx.drawerlayout.widget.DrawerLayout>
```

acticity_addstudent.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".addstudent"
    android:padding="10dp">
    <TextView
        android:id="@+id/text"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Enter your Details"
        android:textSize="24dp"
        android:layout_marginTop="24dp"/>
    <EditText
        android:id="@+id/name"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textSize="24dp"
        android:layout_below="@+id/text"
        android:hint="Name" />
    <EditText
        android:id="@+id/dept"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textSize="24dp"
        android:layout_below="@+id/name"
        android:hint="Department" />
```

```xml
<EditText
    android:id="@+id/year"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textSize="24dp"
    android:layout_below="@+id/dept"
    android:hint="Year"/>

<Button
    android:id="@+id/insert"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textSize="24dp"
    android:text="insert"
    android:layout_below="@id/Rollno"
    android:layout_marginTop="20dp"/>
<Button
    android:id="@+id/show"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textSize="24dp"
    android:text="show"
    android:layout_marginTop="20dp"
    android:layout_below="@id/insert"/>
<TextView
    android:id="@+id/imga"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Chosse Image"
    android:textSize="24dp"
    android:layout_marginTop="24dp"
    android:layout_below="@id/year"/>
<ImageView
    android:id="@+id/img"
    android:layout_width="100dp"
    android:layout_height="100dp"
    android:layout_below="@+id/imga"
    android:layout_centerHorizontal="true"
```

```
                android:layout_marginTop="23dp"

                android:src="@drawable/mood"

                tools:ignore="ContentDescription"

                android:onClick="chooseImage"/>

        <EditText

                android:id="@+id/Rollno"

                android:layout_width="match_parent"

                android:layout_height="wrap_content"

                android:textSize="24dp"

                android:layout_below="@+id/img"

                android:hint="Roll no"/>

</RelativeLayout>
```

acticity_ao_main.xml

```
<?xml version="1.0" encoding="utf-8"?>

<androidx.drawerlayout.widget.DrawerLayout

xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:app="http://schemas.android.com/apk/res-auto"

xmlns:tools="http://schemas.android.com/tools"

android:id="@+id/my_drawer_layout"

android:layout_width="match_parent"

android:layout_height="match_parent"

tools:context=".MainActivity"

tools:ignore="HardcodedText">

        <LinearLayout

                android:layout_width="match_parent"

                android:layout_height="wrap_content">

                <TextView

                        android:layout_width="match_parent"

                        android:layout_height="wrap_content"

                        android:text="Welcome to AO Page"

                        android:textSize="40dp"

                        android:layout_marginTop="60dp"/>

        </LinearLayout>

        <ImageView

                android:id="@+id/imageView"

                android:layout_width="187dp"

                android:layout_height="171dp"

                android:alpha="0.1"
```

```xml
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.005"
        app:srcCompat="@drawable/img" />
<com.google.android.material.navigation.NavigationView
    android:layout_width="wrap_content"
    android:layout_height="match_parent"
    android:id="@+id/nav_menu"
    android:layout_gravity="start"
    app:menu="@menu/bottom_nav_menu"/>
</androidx.drawerlayout.widget.DrawerLayout>
```

acticity_ao_reg.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/img_4"
    tools:context=".register">
    <Button
        android:id="@+id/register"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="register"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.498"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.663" />
    <TextView
        android:id="@+id/textView5"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
```

```
        android:text="SIGN UP"

        android:textSize="50dp"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.115" />

    <EditText

        android:id="@+id/username"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:ems="10"

        android:hint="username"

        android:inputType="textEmailAddress"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.497"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.419" />

    <EditText

        android:id="@+id/password"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:ems="10"

        android:hint="password"

        android:inputType="textPassword"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.497"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.542" />

    <Button

        android:id="@+id/login"

        android:layout_width="match_parent"

        android:layout_height="wrap_content"

        android:text="login"
```

```
                app:layout_constraintBottom_toBottomOf="parent"

                app:layout_constraintEnd_toEndOf="parent"

                app:layout_constraintStart_toStartOf="parent"

                app:layout_constraintTop_toTopOf="parent"

                app:layout_constraintVertical_bias="0.789" />

        </androidx.constraintlayout.widget.ConstraintLayout>
```

acticity_ao.xml

```
<?xml version="1.0" encoding="utf-8"?>

<androidx.constraintlayout.widget.ConstraintLayout

xmlns:android="http://schemas.android.com/apk/res/android"

    xmlns:app="http://schemas.android.com/apk/res-auto"

    xmlns:tools="http://schemas.android.com/tools"

    android:layout_width="match_parent"

    android:layout_height="match_parent"

    android:background="@drawable/img_4"

    tools:context=".HOD">

    <TextView

        android:id="@+id/textView3"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:text="WELCOME TO AO PAGE"

        android:textSize="30dp"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.494"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.28" />

    <TextView

        android:id="@+id/textView5"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:text="SIGN IN"

        android:textSize="50dp"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.497"

        app:layout_constraintStart_toStartOf="parent"
```

```xml
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.414" />
    <EditText
        android:id="@+id/username"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:hint="USERNAME"
        android:inputType="textEmailAddress"
        android:textColor="#9C27B0"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.584" />
    <EditText
        android:id="@+id/password"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:hint="PASSWORD"
        android:inputType="textPassword"
        android:textColor="#0B88EC"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.68" />
    <Button
        android:id="@+id/login"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:background="#BC134D"
        android:text="LOGIN"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
```

```xml
        app:layout_constraintHorizontal_bias="0.498"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.795"
        tools:ignore="MissingConstraints" />
    <TextView
        android:id="@+id/register"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="New User? Register"
        android:textSize="20dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.892" />
    <ImageView
        android:id="@+id/imageView"
        android:layout_width="187dp"
        android:layout_height="171dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.005"
        app:srcCompat="@drawable/img" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

activity_change_pswd.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".change_pswd">
    <TextView
        android:id="@+id/username"
```

```xml
        android:layout_width="wrap_content"
        android:layout_height="20dp"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="93dp"
        tools:layout_editor_absoluteX="136dp"
        tools:layout_editor_absoluteY="161dp" />
    <EditText
        android:id="@+id/pswd"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentStart="true"
        android:layout_alignParentTop="true"
        android:layout_centerInParent="true"
        android:layout_marginStart="111dp"
        android:layout_marginTop="257dp"
        android:ems="10"
        android:hint="pswd"
        android:inputType="textPassword"
        tools:layout_editor_absoluteX="73dp"
        tools:layout_editor_absoluteY="258dp" />
    <Button
        android:id="@+id/update"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentStart="true"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:layout_marginStart="166dp"
        android:layout_marginTop="497dp"
        android:text="update"
        tools:layout_editor_absoluteX="147dp"
        tools:layout_editor_absoluteY="520dp" />
</RelativeLayout>
```

activity_class_incharge_main.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
```

```xml
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".AO_main">
    <TextView
        android:id="@+id/ds"
        android:layout_width="192dp"
        android:layout_height="63dp"
        android:layout_centerInParent="true"
        android:text="venga"
        android:textColor="@android:color/black"
        android:textSize="48sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.517"
        tools:ignore="InvalidId" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

activity_class_incharge_reg.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/img_4"
    tools:context=".register">
    <Button
        android:id="@+id/register"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="register"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
```

```
        app:layout_constraintHorizontal_bias="0.498"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.663" />
    <TextView
        android:id="@+id/textView5"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="SIGN UP"
        android:textSize="50dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.126" />
    <EditText
        android:id="@+id/username"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:hint="username"
        android:inputType="textEmailAddress"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.403" />
    <EditText
        android:id="@+id/password"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:hint="password"
        android:inputType="textPassword"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
```

```xml
        app:layout_constraintHorizontal_bias="0.497"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.526" />
    <Button
        android:id="@+id/login"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="login"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.789" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

activity_class_incharge.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:background="@drawable/img_4"
    android:layout_height="match_parent"
    tools:context=".HOD">
    <TextView
        android:id="@+id/textView3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="WELCOME TO CLASS INCHARGE PAGE"
        android:textColor="#DF0C0C"
        android:textSize="23dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.492"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.108" />
```

```xml
<TextView
    android:id="@+id/textView5"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="SIGN IN"
    android:textSize="50dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.54"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.414" />
<EditText
    android:id="@+id/username"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:ems="10"
    android:hint="USERNAME"
    android:inputType="textEmailAddress"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.542"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.551" />
<EditText
    android:id="@+id/password"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:ems="10"
    android:hint="PASSWORD"
    android:inputType="textPassword"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.542"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.651" />
```

```xml
    <Button
        android:id="@+id/login"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="LOGIN"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.498"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.746"
        tools:ignore="MissingConstraints" />
    <TextView
        android:id="@+id/register"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="New User? Register"
        android:textSize="20dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.843" />
    <ImageView
        android:id="@+id/imageView4"
        android:layout_width="98dp"
        android:layout_height="97dp"
        tools:layout_editor_absoluteX="156dp"
        tools:layout_editor_absoluteY="149dp"
        tools:srcCompat="@tools:sample/avatars" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

activity_hod.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
```

```xml
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/img_4"
    tools:context=".HOD">
<TextView
    android:id="@+id/textView3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="WELCOME TO HOD PAGE"
    android:textSize="30dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.492"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.108" />
<TextView
    android:id="@+id/textView5"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="SIGN IN"
    android:textSize="50dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.497"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.45" />
<EditText
    android:id="@+id/username"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:ems="10"
    android:hint="USERNAME"
    android:inputType="textEmailAddress"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.497"
```

```xml
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.578" />
    <EditText
        android:id="@+id/password"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:hint="PASSWORD"
        android:inputType="textPassword"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.676" />
    <Button
        android:id="@+id/login"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="LOGIN"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.513"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.797"
        tools:ignore="MissingConstraints" />
    <TextView
        android:id="@+id/register"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="New User? Register"
        android:textSize="20dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.54"
        app:layout_constraintStart_toStartOf="parent"
```

```xml
        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.873" />

    <ImageView

        android:id="@+id/imageView4"

        android:layout_width="98dp"

        android:layout_height="97dp"

        tools:layout_editor_absoluteX="156dp"

        tools:layout_editor_absoluteY="149dp"

        tools:srcCompat="@tools:sample/avatars" />

    <Button

        android:id="@+id/show"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:text="Show"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.992" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

activity_pta_main.xml

```xml
<?xml version="1.0" encoding="utf-8"?>

<androidx.constraintlayout.widget.ConstraintLayout

xmlns:android="http://schemas.android.com/apk/res/android"

    xmlns:app="http://schemas.android.com/apk/res-auto"

    xmlns:tools="http://schemas.android.com/tools"

    android:layout_width="match_parent"

    android:layout_height="match_parent"

    tools:context=".AO_main">

    <TextView

        android:id="@+id/ds"

        android:layout_width="192dp"

        android:layout_height="63dp"

        android:layout_centerInParent="true"

        android:text="venga"

        android:textColor="@android:color/black"

        android:textSize="48sp"

        app:layout_constraintBottom_toBottomOf="parent"
```

```
        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.497"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.517"

        tools:ignore="InvalidId" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

activity_pta_reg.xml

```
<?xml version="1.0" encoding="utf-8"?>

<androidx.constraintlayout.widget.ConstraintLayout

xmlns:android="http://schemas.android.com/apk/res/android"

    xmlns:app="http://schemas.android.com/apk/res-auto"

    xmlns:tools="http://schemas.android.com/tools"

    android:layout_width="match_parent"

    android:layout_height="match_parent"

    android:background="@drawable/img_4"

    tools:context=".register">

    <Button

        android:id="@+id/register"

        android:layout_width="match_parent"

        android:layout_height="wrap_content"

        android:text="register"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.498"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.663" />

    <TextView

        android:id="@+id/textView5"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:text="SIGN UP"

        android:textSize="50dp"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.455"

        app:layout_constraintStart_toStartOf="parent"
```

```xml
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.155" />
    <EditText
        android:id="@+id/username"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:hint="username"
        android:inputType="textEmailAddress"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.416" />
    <EditText
        android:id="@+id/password"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:hint="password"
        android:inputType="textPassword"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.529" />
    <Button
        android:id="@+id/login"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="login"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.789" />
```

```
</androidx.constraintlayout.widget.ConstraintLayout>
```

activity_pta.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/img_4"
    tools:context=".HOD">
    <TextView
        android:id="@+id/textView3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="WELCOME TO PTO PAGE"
        android:textSize="30dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.492"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.108" />
    <TextView
        android:id="@+id/textView5"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="SIGN IN"
        android:textSize="50dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.531"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.426" />
    <EditText
        android:id="@+id/username"
        android:layout_width="wrap_content"
```

```xml
        android:layout_height="wrap_content"
        android:ems="10"
        android:hint="USERNAME"
        android:inputType="textEmailAddress"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.527"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.572" />
    <EditText
        android:id="@+id/password"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:hint="PASSWORD"
        android:inputType="textPassword"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.527"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.677" />
    <Button
        android:id="@+id/login"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="LOGIN"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.498"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.786"
        tools:ignore="MissingConstraints" />
    <TextView
        android:id="@+id/register"
        android:layout_width="wrap_content"
```

```
          android:layout_height="wrap_content"

          android:text="New User? Register"

          android:textSize="20dp"

          app:layout_constraintBottom_toBottomOf="parent"

          app:layout_constraintEnd_toEndOf="parent"

          app:layout_constraintHorizontal_bias="0.531"

          app:layout_constraintStart_toStartOf="parent"

          app:layout_constraintTop_toTopOf="parent"

          app:layout_constraintVertical_bias="0.893" />

      <ImageView

          android:id="@+id/imageView4"

          android:layout_width="98dp"

          android:layout_height="97dp"

          tools:layout_editor_absoluteX="156dp"

          tools:layout_editor_absoluteY="149dp"

          tools:srcCompat="@tools:sample/avatars" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

activity_register.xml

```
<?xml version="1.0" encoding="utf-8"?>

<androidx.constraintlayout.widget.ConstraintLayout

xmlns:android="http://schemas.android.com/apk/res/android"

    xmlns:app="http://schemas.android.com/apk/res-auto"

    xmlns:tools="http://schemas.android.com/tools"

    android:layout_width="match_parent"

    android:layout_height="match_parent"

    android:background="@drawable/img_4"

    tools:context=".HOD">

    <TextView

        android:id="@+id/textView3"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:text="WELCOME TO PTO PAGE"

        android:textSize="30dp"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.492"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"
```

```xml
            app:layout_constraintVertical_bias="0.108" />

        <TextView
            android:id="@+id/textView5"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="SIGN IN"
            android:textSize="50dp"
            app:layout_constraintBottom_toBottomOf="parent"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintHorizontal_bias="0.531"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toTopOf="parent"
            app:layout_constraintVertical_bias="0.426" />

        <EditText
            android:id="@+id/username"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:ems="10"
            android:hint="USERNAME"
            android:inputType="textEmailAddress"
            app:layout_constraintBottom_toBottomOf="parent"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintHorizontal_bias="0.527"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toTopOf="parent"
            app:layout_constraintVertical_bias="0.572" />

        <EditText
            android:id="@+id/password"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:ems="10"
            android:hint="PASSWORD"
            android:inputType="textPassword"
            app:layout_constraintBottom_toBottomOf="parent"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintHorizontal_bias="0.527"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toTopOf="parent"
```

```
            app:layout_constraintVertical_bias="0.677" />
        <Button
            android:id="@+id/login"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="LOGIN"
            app:layout_constraintBottom_toBottomOf="parent"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintHorizontal_bias="0.498"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toTopOf="parent"
            app:layout_constraintVertical_bias="0.786"
            tools:ignore="MissingConstraints" />
        <TextView
            android:id="@+id/register"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="New User? Register"
            android:textSize="20dp"
            app:layout_constraintBottom_toBottomOf="parent"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintHorizontal_bias="0.531"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toTopOf="parent"
            app:layout_constraintVertical_bias="0.893" />
        <ImageView
            android:id="@+id/imageView4"
            android:layout_width="98dp"
            android:layout_height="97dp"
            tools:layout_editor_absoluteX="156dp"
            tools:layout_editor_absoluteY="149dp"
            tools:srcCompat="@tools:sample/avatars" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

activity_stdlist.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
```

```xml
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".stdlistl">
    <androidx.recyclerview.widget.RecyclerView
      android:id="@+id/recyclerview"
      android:layout_width="match_parent"
      android:layout_height="wrap_content"
      tools:ignore="MissingConstraints" />
</RelativeLayout>
```

activity_student_main.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.drawerlayout.widget.DrawerLayout
  xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:app="http://schemas.android.com/apk/res-auto"
  xmlns:tools="http://schemas.android.com/tools"
  android:id="@+id/my_drawer_layout"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  tools:context=".MainActivity"
  tools:ignore="HardcodedText">
  <RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content">
    <TextView
      android:id="@+id/name"
      android:layout_width="wrap_content"
      android:layout_height="wrap_content"
      android:layout_alignParentStart="true"
      android:layout_alignParentTop="true"
      android:layout_marginStart="161dp"
      android:layout_marginTop="153dp"/>
    <TextView
      android:id="@+id/std_name"
      android:layout_width="wrap_content"
      android:layout_height="wrap_content"
      android:layout_alignParentStart="true"
      android:layout_alignParentTop="true"
      android:layout_marginStart="161dp"
```

```xml
                    android:layout_marginTop="100dp"/>
            </RelativeLayout>
            <ImageView
                android:id="@+id/imageView"
                android:layout_width="187dp"
                android:layout_height="171dp"
                android:alpha="0.1"
                app:layout_constraintBottom_toBottomOf="parent"
                app:layout_constraintEnd_toEndOf="parent"
                app:layout_constraintStart_toStartOf="parent"
                app:layout_constraintTop_toTopOf="parent"
                app:layout_constraintVertical_bias="0.005"
                app:srcCompat="@drawable/img" />
            <com.google.android.material.navigation.NavigationView
                android:layout_width="wrap_content"
                android:layout_height="match_parent"
                android:id="@+id/nav_menu"
                android:layout_gravity="start"
                app:menu="@menu/menu"/>
</androidx.drawerlayout.widget.DrawerLayout>
```

activity_student_reg.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/img_4"
    tools:context=".register">
    <Button
        android:id="@+id/register"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="register"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.498"
```

```
        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.663" />

    <TextView

        android:id="@+id/textView5"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:text="SIGN UP"

        android:textSize="50dp"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.115" />

    <EditText

        android:id="@+id/username"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:ems="10"

        android:hint="username"

        android:inputType="textEmailAddress"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.497"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.419" />

    <EditText

        android:id="@+id/password"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:ems="10"

        android:hint="password"

        android:inputType="textPassword"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.497"

        app:layout_constraintStart_toStartOf="parent"
```

```xml
                app:layout_constraintTop_toTopOf="parent"
                app:layout_constraintVertical_bias="0.542" />
        <Button
            android:id="@+id/login"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="login"
            app:layout_constraintBottom_toBottomOf="parent"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toTopOf="parent"
            app:layout_constraintVertical_bias="0.789" />
    </androidx.constraintlayout.widget.ConstraintLayout>
```

activity_student.xml

activity_update_student.xml

```xml
    <?xml version="1.0" encoding="utf-8"?>
    <RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
        xmlns:app="http://schemas.android.com/apk/res-auto"
        xmlns:tools="http://schemas.android.com/tools"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        tools:context=".update_student">
        <LinearLayout
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_alignParentStart="true"
            android:layout_alignParentTop="true"
            android:layout_marginStart="10dp"
            android:layout_marginTop="63dp"
            android:orientation="horizontal">
            <ImageView
                android:id="@+id/imgStudent"
                android:layout_width="164dp"
                android:layout_height="164dp"
                android:src="@drawable/mood" />
            <LinearLayout
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
```

```xml
        android:orientation="vertical">
        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Student name"
            android:textSize="20dp"/>
        <EditText
            android:id="@+id/name"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:textSize="25dp"/>
        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Roll no"
            android:textSize="20dp"/>
        <EditText
            android:id="@+id/roll"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:textSize="25dp"/>
    </LinearLayout>
</LinearLayout>
<TextView
    android:id="@+id/textView2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentStart="true"
    android:layout_alignParentTop="true"
    android:layout_marginStart="10dp"
    android:layout_marginTop="249dp"
    android:text="Basic Details"
    android:textSize="28dp" />
<TextView
    android:id="@+id/textView4"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentStart="true"
```

```
    android:layout_alignParentTop="true"
    android:layout_marginStart="30dp"
    android:layout_marginTop="304dp"
    android:text="Deaprtment"
    android:textSize="20dp" />
<TextView
    android:id="@+id/textView6"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentStart="true"
    android:layout_alignParentBottom="true"
    android:layout_marginStart="30dp"
    android:layout_marginBottom="337dp"
    android:text="Year"
    android:textSize="20dp" />
<TextView
    android:id="@+id/textView7"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentStart="true"
    android:layout_alignParentBottom="true"
    android:layout_marginStart="34dp"
    android:layout_marginBottom="282dp"
    android:text="Mail"
    android:textSize="20dp" />
<EditText
    android:id="@+id/dept"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentTop="true"
    android:layout_alignParentEnd="true"
    android:layout_marginTop="293dp"
    android:layout_marginEnd="30dp"
    android:ems="10"
    android:inputType="text" />
<EditText
    android:id="@+id/year"
    android:layout_width="wrap_content"
```

```xml
        android:layout_height="wrap_content"
        android:layout_alignParentEnd="true"
        android:layout_alignParentBottom="true"
        android:layout_centerVertical="true"
        android:layout_marginEnd="30dp"
        android:layout_marginBottom="335dp"
        android:ems="10"
        android:inputType="text" />
    <EditText
        android:id="@+id/mail"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentEnd="true"
        android:layout_alignParentBottom="true"
        android:layout_marginEnd="30dp"
        android:layout_marginBottom="280dp"
        android:ems="10"
        android:inputType="text" />
    <TextView
        android:id="@+id/textView8"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentStart="true"
        android:layout_alignParentBottom="true"
        android:layout_marginStart="30dp"
        android:layout_marginBottom="230dp"
        android:text="Mobile No"
        android:textSize="20dp" />
    <TextView
        android:id="@+id/textView9"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentStart="true"
        android:layout_alignParentBottom="true"
        android:layout_marginStart="30dp"
        android:layout_marginBottom="170dp"
        android:text="Mother Name"
        android:textSize="20dp" />
```

```xml
<TextView
    android:id="@+id/textView10"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentStart="true"
    android:layout_alignParentBottom="true"
    android:layout_marginStart="30dp"
    android:layout_marginBottom="112dp"
    android:text="Father Name"
    android:textSize="20dp" />
<TextView
    android:id="@+id/textView11"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentStart="true"
    android:layout_alignParentBottom="true"
    android:layout_marginStart="30dp"
    android:layout_marginBottom="50dp"
    android:text="Address"
    android:textSize="20dp" />
<EditText
    android:id="@+id/phno"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="30dp"
    android:layout_marginBottom="222dp"
    android:ems="10"
    android:inputType="text" />
<EditText
    android:id="@+id/mname"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="30dp"
    android:layout_marginBottom="161dp"
```

```
        android:ems="10"

        android:inputType="text" />

    <EditText

        android:id="@+id/fname"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:layout_alignParentEnd="true"

        android:layout_alignParentBottom="true"

        android:layout_marginEnd="30dp"

        android:layout_marginBottom="103dp"

        android:ems="10"

        android:inputType="text" />

    <EditText

        android:id="@+id/address"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:layout_alignParentEnd="true"

        android:layout_alignParentBottom="true"

        android:layout_marginEnd="30dp"

        android:layout_marginBottom="43dp"

        android:ems="10"

        android:inputType="text" />

    <Button

        android:id="@+id/update"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:layout_alignParentBottom="true"

        android:layout_centerHorizontal="true"

        android:text="update" />

 </RelativeLayout>
```

activity_student_item.xml

```
<?xml version="1.0" encoding="utf-8"?>

<androidx.cardview.widget.CardView

xmlns:android="http://schemas.android.com/apk/res/android"

    android:layout_width="match_parent"

    android:layout_height="wrap_content"

    xmlns:app="http://schemas.android.com/apk/res-auto"

    app:cardElevation="12dp"
```

```xml
    app:cardCornerRadius="16dp"
    android:layout_margin="16dp"
    android:background="#efefef">
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="16dp"
    android:orientation="vertical">
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:gravity="center_vertical">
        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Name:"
            android:textSize="24dp"
            android:textColor="@color/black"
            style="bold"/>
        <TextView
            android:id="@+id/txtName"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:textSize="16sp"
            android:layout_marginLeft="70dp"
            android:layout_gravity="center_vertical"
            android:paddingStart="16dp" />
        <ImageView
            android:id="@+id/imgStudent"
            android:layout_width="104dp"
            android:layout_height="104dp"
            android:src="@drawable/mood" />
    </LinearLayout>
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
```

```xml
        android:gravity="center_vertical">
      <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Department:"
        android:textSize="24dp"
        android:textColor="@color/black"
        style="bold"/>
      <TextView
        android:id="@+id/txtdept"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textSize="16sp"
        android:layout_marginLeft="10dp"
        android:layout_gravity="center_vertical"
        android:paddingStart="16dp" />
    </LinearLayout>
    <LinearLayout
      android:layout_width="match_parent"
      android:layout_height="wrap_content"
      android:orientation="horizontal"
      android:gravity="center_vertical">
      <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Year:"
        android:textSize="24dp"
        android:textColor="@color/black"
        style="bold"/>
      <TextView
        android:id="@+id/txtyear"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textSize="16sp"
        android:layout_marginLeft="90dp"
        android:layout_gravity="center_vertical"
        android:paddingStart="16dp" />
    </LinearLayout>
```

```xml
        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:orientation="horizontal"
            android:gravity="center_vertical">
            <TextView
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:text="Roll No:"
                android:textSize="24dp"
                android:textColor="@color/black"
                style="bold"/>
            <TextView
                android:id="@+id/txtrollno"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:textSize="16sp"
                android:layout_marginLeft="60dp"
                android:layout_gravity="center_vertical"
                android:paddingStart="16dp" />
        </LinearLayout>
    </LinearLayout>
</androidx.cardview.widget.CardView>
```

MENU FILES:

Menu.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    tools:ignore="HardcodedText">
    <item android:title="password">
        <menu>
            <item
                android:id="@+id/update"
                android:title="update"/>
            <item
```

```xml
                    android:id="@+id/venga"
                    android:title="change_pswd"/>
            </menu>
        </item>
</menu>
```

navigation_menu.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    tools:ignore="HardcodedText">
    <item android:title="ADMIN"
        android:icon="@drawable/amdin"
        android:id="@+id/admin">
        <menu>
            <item
                android:id="@+id/hod"
                android:icon="@drawable/hod"
                android:title="HOD" />
            <item
                android:id="@+id/ao"
                android:icon="@drawable/ao"
                android:title="AO" />
            <item
                android:id="@+id/pta"
                android:icon="@drawable/pta"
                android:title="PTA Officer" />
            <item
                android:id="@+id/incharge"
                android:icon="@drawable/teacher"
                android:title="Class Incharge" />
        </menu>
    </item>
    <item android:title="EMPLOYEE">
        <menu>
            <item
                android:id="@+id/student"
                android:title="STUDENT"/>
```

```
            </menu>
        </item>
    </menu>
```

JAVA FILES

addstudent.java

```java
package com.example.nav;

import androidx.annotation.Nullable;

import androidx.appcompat.app.AppCompatActivity;

import android.app.Activity;

import android.os.Bundle;

import android.annotation.SuppressLint;

import android.content.ContentValues;

import android.content.Intent;

import android.content.pm.PackageManager;

import android.database.Cursor;

import android.database.sqlite.SQLiteDatabase;

import android.graphics.Bitmap;

import android.net.Uri;

import android.os.Bundle;

import android.provider.MediaStore;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.ImageView;

import android.widget.Toast;

public class addstudent extends AppCompatActivity {

    EditText name,dept,year,Rollno;

    Button insert,view;

    ImageView img;

    DatabaseHelper db;

    private Bitmap selectedImageBitmap;

    public String imagepath;

    int PICK_IMAGE_REQUEST=1;

    Uri imagefilepath;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_addstudent);
```

```java
            name=findViewById(R.id.name);
            dept=findViewById(R.id.dept);
            year=findViewById(R.id.year);
            Rollno=findViewById(R.id.Rollno);
            insert=findViewById(R.id.insert);
            view=findViewById(R.id.show);
            img=findViewById(R.id.img);
            db=new DatabaseHelper(this);
            insert.setOnClickListener(new View.OnClickListener() {
                @Override
                public void onClick(View view) {
                    String nametxt=name.getText().toString();
                    String depttxt=dept.getText().toString();
                    String yeartxt=year.getText().toString();
                    String rollnotxt=Rollno.getText().toString();
                    Boolean
checkinsertdata=db.insertdata(nametxt,selectedImageBitmap,depttxt,yeartxt,rollnotxt);
                    if(checkinsertdata==true)
                    {
                        name.setText("");
                        dept.setText("");
                        year.setText("");
                        Rollno.setText("");
                        img.setImageResource(R.drawable.mood);
                        Toast.makeText(addstudent.this,"New entry
inserted",Toast.LENGTH_LONG).show();
                    }
                }
            });
            view.setOnClickListener(new View.OnClickListener() {
                @Override
                public void onClick(View view) {
                    startActivity(new Intent(addstudent.this,stdlistl.class));
                }
            });
        }
        public void chooseImage(View objectView){
            try {
```

```java
        Intent objectintent=new Intent();

        objectintent.setType("image/*");

        objectintent.setAction(Intent.ACTION_GET_CONTENT);

        startActivityForResult(objectintent,PICK_IMAGE_REQUEST);

    }

    catch(Exception e){

        Toast.makeText(this,e.getMessage(),Toast.LENGTH_SHORT).show();

    }

}

protected void onActivityResult(int requestCode, int resultCode, @Nullable Intent data) {

    try {

        super.onActivityResult(requestCode, resultCode, data);

        if (requestCode == PICK_IMAGE_REQUEST && resultCode == Activity.RESULT_OK
&& data != null && data.getData() != null)

        {

            imagefilepath= data.getData();

            selectedImageBitmap =
MediaStore.Images.Media.getBitmap(getContentResolver(),imagefilepath);

            img.setImageBitmap(selectedImageBitmap);

        }

    }

    catch(Exception e){

        Toast.makeText(this,e.getMessage(),Toast.LENGTH_SHORT).show();

    }

}
}
```

Ao_main.java

```java
package com.example.nav;

import androidx.annotation.NonNull;

import androidx.appcompat.app.ActionBarDrawerToggle;

import androidx.appcompat.app.AppCompatActivity;

import androidx.drawerlayout.widget.DrawerLayout;

import android.annotation.SuppressLint;

import android.content.Context;

import android.content.Intent;

import android.os.Bundle;

import android.view.MenuItem;

import android.view.View;
```

```java
import android.widget.Button;
import com.google.android.material.navigation.NavigationView;
public class AO_main extends AppCompatActivity implements
NavigationView.OnNavigationItemSelectedListener{
    public DrawerLayout drawerLayout;
    public ActionBarDrawerToggle actionBarDrawerToggle;
    private NavigationView nav;
    private Context context=this;
    @SuppressLint("MissingInflatedId")
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_ao_main);
        // drawer layout instance to toggle the menu icon to open
        // drawer and back button to close drawer
        drawerLayout = findViewById(R.id.my_drawer_layout);
        actionBarDrawerToggle = new ActionBarDrawerToggle(this, drawerLayout,
R.string.nav_open, R.string.nav_close);
        nav=(NavigationView)findViewById(R.id.nav_menu);
        nav.setNavigationItemSelectedListener(this);
        // pass the Open and Close toggle for the drawer layout listener
        // to toggle the button
        drawerLayout.addDrawerListener(actionBarDrawerToggle);
        actionBarDrawerToggle.syncState();
        // to make the Navigation drawer icon always appear on the action bar
        getSupportActionBar().setDisplayHomeAsUpEnabled(true);
    }
    // override the onOptionsItemSelected()
    // function to implement
    // the item click listener callback
    // to open and close the navigation
    // drawer when the icon is clicked
    @Override
    public boolean onOptionsItemSelected(@NonNull MenuItem item) {
        if (actionBarDrawerToggle.onOptionsItemSelected(item)) {
            return true;
        }
        return super.onOptionsItemSelected(item);
```

```java
        }
        @Override
        public boolean onNavigationItemSelected(@NonNull MenuItem item) {
            Object menuItem;
            switch (item.getItemId()){
                case R.id.addstd:
                    Intent send1 = new Intent(AO_main.this, addstudent.class);
                    startActivity(send1);
                    break;
                case R.id.showstd:
                    Intent send2=new Intent(AO_main.this,stdlistl.class);
                    startActivity(send2);
                    break;
            }
            return false;
        }
}
```

Ao_reg.java

```java
package com.example.nav;
import androidx.appcompat.app.AppCompatActivity;
import android.annotation.SuppressLint;
import android.content.ContentValues;
import android.content.Context;
import android.content.Intent;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
public class AO_reg extends AppCompatActivity {
    private Button register,login;
    private SQLiteOpenHelper openHelper;
    private SQLiteDatabase db;
    private EditText regusername,regpassword;
    @SuppressLint("MissingInflatedId")
    @Override
```

```java
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_ao_reg);
    openHelper = new DatabaseHelper(this);
    register = findViewById(R.id.register);
    login = findViewById(R.id.login);
    regusername = findViewById(R.id.username);
    regpassword = findViewById(R.id.password);
    register.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            db = openHelper.getWritableDatabase();
            String username = regusername.getText().toString().trim();
            String password = regpassword.getText().toString().trim();
            if (username.isEmpty() || password.isEmpty()) {
                Toast.makeText(AO_reg.this, "Please fill all the details",
Toast.LENGTH_SHORT).show();
            } else {
                insertData(username,password);
                Toast.makeText(AO_reg.this, "Registration Successful",
Toast.LENGTH_SHORT).show();
            }
        }
    });
    login.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            startActivity(new Intent(AO_reg.this,AO.class));
            finish();
        }
    });
}
public void insertData(String username,String password){
    ContentValues contentValues = new ContentValues();
    contentValues.put(DatabaseHelper.COL_2,username);
    contentValues.put(DatabaseHelper.COL_3,password);
    long id = db.insert(DatabaseHelper.TABLE_ao,null,contentValues);
}
```

}

Ao.java

```java
package com.example.nav;
import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;
import android.annotation.SuppressLint;
import android.content.Intent;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;
public class AO extends AppCompatActivity {
    private TextView register;
    private EditText username,password;
    private Button loginButton;
    private SQLiteDatabase db;
    private Cursor cursor;
    @SuppressLint("MissingInflatedId")
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_ao);
        SQLiteOpenHelper openHelper = new DatabaseHelper(this);
        db = openHelper.getReadableDatabase();
        register = findViewById(R.id.register);
        username = findViewById(R.id.username);
        password= findViewById(R.id.password);
        loginButton = findViewById(R.id.login);
        loginButton.setOnClickListener(new View.OnClickListener() {
            @SuppressLint("Range")
            @Override
            public void onClick(View v) {
                String uname = username.getText().toString().trim();
```

```java
            String pswd = password.getText().toString().trim();
            if (uname.isEmpty() || pswd.isEmpty()) {
                Toast.makeText(AO.this, "Enter your Email and Password to login",
Toast.LENGTH_SHORT).show();
            } else {
                cursor = db.rawQuery("SELECT *FROM " + DatabaseHelper.TABLE_ao + " WHERE
" + DatabaseHelper.COL_2 + "=? AND " + DatabaseHelper.COL_3 + "=?", new String[]{uname,
pswd});
                if(cursor.getCount()==0){
                    Toast.makeText(AO.this,"no entries exist",Toast.LENGTH_SHORT).show();
                    return;
                }
                while(cursor.moveToNext()){
                    String name=cursor.getString(1);
                    Intent intent=new Intent(AO.this,AO_main.class);
                    startActivity(intent);
                }
            }
        }
    });
    register.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            startActivity(new Intent(AO.this,AO_reg.class));
            finish();
        }
    });
    }
}
```

chnage_pswd.java

```java
package com.example.nav;
import android.content.ContentValues;
import android.content.Intent;
import android.database.sqlite.SQLiteDatabase;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
```

```java
import android.widget.TextView;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;
import org.w3c.dom.Text;
public class change_pswd extends AppCompatActivity {
    private EditText editTextNewPassword;
    private Button buttonUpdatePassword;
    private TextView uname;
    String Name;
    private DatabaseHelper databaseHelper;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_change_pswd);
        editTextNewPassword = findViewById(R.id.pswd);
        buttonUpdatePassword = findViewById(R.id.update);
        uname=findViewById(R.id.username);
        databaseHelper = new DatabaseHelper(this);
        uname=findViewById(R.id.username);
        Intent intent=getIntent();
        Name=intent.getStringExtra("username");
        uname.setText(Name);
        buttonUpdatePassword.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                updatePassword();
            }
        });
    }
    private void updatePassword() {
        String newPassword = editTextNewPassword.getText().toString().trim();
        String studentId=Name;
        SQLiteDatabase db = databaseHelper.getWritableDatabase();
        ContentValues values = new ContentValues();
        values.put("pswd", newPassword);
        int rowsAffected = db.update("student", values, "mail = ?",
                new String[]{studentId});
        if (rowsAffected > 0) {
```

```java
        Toast.makeText(this, "Password updated successfully", Toast.LENGTH_SHORT).show();
      } else {
        Toast.makeText(this, "Invalid student ID or current password",
Toast.LENGTH_SHORT).show();
      }
      db.close();
   }
}
```

class_incharge_reg.java

```java
package com.example.nav;

import androidx.appcompat.app.AppCompatActivity;

import android.annotation.SuppressLint;

import android.content.ContentValues;

import android.content.Context;

import android.content.Intent;

import android.database.sqlite.SQLiteDatabase;

import android.database.sqlite.SQLiteOpenHelper;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Toast;

public class class_incharge_reg extends AppCompatActivity {
   private Button register,login;
   private SQLiteOpenHelper openHelper;
   private SQLiteDatabase db;
   private EditText regusername,regpassword;
   @SuppressLint("MissingInflatedId")
   @Override
   protected void onCreate(Bundle savedInstanceState) {
      super.onCreate(savedInstanceState);
      setContentView(R.layout.activity_class_incharge_reg);
      openHelper = new DatabaseHelper(this);
      register = findViewById(R.id.register);
      login = findViewById(R.id.login);
      regusername = findViewById(R.id.username);
      regpassword = findViewById(R.id.password);
      register.setOnClickListener(new View.OnClickListener() {
```

```java
            @Override
            public void onClick(View v) {
                db = openHelper.getWritableDatabase();
                String username = regusername.getText().toString().trim();
                String password = regpassword.getText().toString().trim();
                if (username.isEmpty() || password.isEmpty()) {
                    Toast.makeText(class_incharge_reg.this, "Please fill all the details",
Toast.LENGTH_SHORT).show();
                } else {
                    insertData(username,password);
                    Toast.makeText(class_incharge_reg.this, "Registration Successful",
Toast.LENGTH_SHORT).show();
                }
            }
        });
        login.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                startActivity(new Intent(class_incharge_reg.this,class_incharge.class));
                finish();
            }
        });
    }
    public void insertData(String username,String password){
        ContentValues contentValues = new ContentValues();
        contentValues.put(DatabaseHelper.COL_2,username);
        contentValues.put(DatabaseHelper.COL_3,password);
        long id = db.insert(DatabaseHelper.TABLE_ci,null,contentValues);
    }
}
```

class_incharge.java

```java
package com.example.nav;
import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;
import android.annotation.SuppressLint;
import android.content.Intent;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
```

```java
import android.database.sqlite.SQLiteOpenHelper;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;
public class class_incharge extends AppCompatActivity {
    private TextView register;
    private EditText username,password;
    private Button loginButton;
    private SQLiteDatabase db;
    private Cursor cursor;
    @SuppressLint("MissingInflatedId")
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_class_incharge);
        SQLiteOpenHelper openHelper = new DatabaseHelper(this);
        db = openHelper.getReadableDatabase();
        register = findViewById(R.id.register);
        username = findViewById(R.id.username);
        password= findViewById(R.id.password);
        loginButton = findViewById(R.id.login);
        loginButton.setOnClickListener(new View.OnClickListener() {
            @SuppressLint("Range")
            @Override
            public void onClick(View v) {
                String uname = username.getText().toString().trim();
                String pswd = password.getText().toString().trim();
                if (uname.isEmpty() || pswd.isEmpty()) {
                    Toast.makeText(class_incharge.this, "Enter your Email and Password to login",
Toast.LENGTH_SHORT).show();
                } else {
                    cursor = db.rawQuery("SELECT *FROM " + DatabaseHelper.TABLE_ci + " WHERE
" + DatabaseHelper.COL_2 + "=? AND " + DatabaseHelper.COL_3 + "=?", new String[]{uname,
pswd});
                    if(cursor.getCount()==0){
```

```java
                Toast.makeText(class_incharge.this,"no entries
exist",Toast.LENGTH_SHORT).show();
                return;
            }
            while(cursor.moveToNext()){
                String name=cursor.getString(1);
                Intent intent=new Intent(class_incharge.this,class_incharge_main.class);
                startActivity(intent);
            }
        }
    }
});
register.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        startActivity(new Intent(class_incharge.this,class_incharge_reg.class));
        finish();
    }
});
    }
}
```

Hod.java

```java
package com.example.nav;
import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;
import android.annotation.SuppressLint;
import android.content.Intent;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;
public class HOD extends AppCompatActivity {
    private TextView register;
```

```java
        private EditText username,password;
        private Button loginButton,show;
        DatabaseHelper Db;
        private SQLiteDatabase db;
        private SQLiteOpenHelper openHelper;
        private Cursor cursor;
        @SuppressLint("MissingInflatedId")
        @Override
        protected void onCreate(Bundle savedInstanceState) {
            super.onCreate(savedInstanceState);
            setContentView(R.layout.activity_hod);
            Db=new DatabaseHelper(this);
            openHelper = new DatabaseHelper(this);
            db = openHelper.getReadableDatabase();
            register = findViewById(R.id.register);
            username = findViewById(R.id.username);
            password= findViewById(R.id.password);
            loginButton = findViewById(R.id.login);
            show=findViewById(R.id.show);
            loginButton.setOnClickListener(new View.OnClickListener() {
                @SuppressLint("Range")
                @Override
                public void onClick(View v) {
                    String uname = username.getText().toString().trim();
                    String pswd = password.getText().toString().trim();
                    if (uname.isEmpty() || pswd.isEmpty()) {
                        Toast.makeText(HOD.this, "Enter your Email and Password to login",
Toast.LENGTH_SHORT).show();
                    } else {
                        cursor = db.rawQuery("SELECT *FROM " + DatabaseHelper.TABLE_hod + "
WHERE " + DatabaseHelper.COL_2 + "=? AND " + DatabaseHelper.COL_3 + "=?", new
String[]{uname, pswd});
                        if(cursor.getCount()==0){
                            Toast.makeText(HOD.this,"no entries exist",Toast.LENGTH_SHORT).show();
                            return;
                        }
                        while(cursor.moveToNext()){
                            String name=cursor.getString(1);
```

```java
                    Intent intent=new Intent(HOD.this,HOD_main.class);
                    startActivity(intent);
                }
            }
        }
    });
    register.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            startActivity(new Intent(HOD.this,register.class));
            finish();
        }
    });
    show.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            Cursor cursor=Db.getdata();
            if(cursor.getCount()==0){
                Toast.makeText(HOD.this,"No entries",Toast.LENGTH_SHORT).show();
                return;
            }
            else{
                while(cursor.moveToNext()){
                    String name=(cursor.getString(1));
                    String Pass=(cursor.getString(2));
                    Intent intent=new Intent(HOD.this,HOD_main.class);
                    intent.putExtra("name",name);
                    intent.putExtra("pass",Pass);
                    startActivity(intent);
                }
            }
        }
    });
  }
}
```

Mainactivity.java

```java
package com.example.nav;
import androidx.annotation.NonNull;
```

```java
import androidx.appcompat.app.ActionBarDrawerToggle;

import androidx.appcompat.app.AppCompatActivity;

import androidx.drawerlayout.widget.DrawerLayout;

import android.annotation.SuppressLint;

import android.content.Context;

import android.content.Intent;

import android.os.Bundle;

import android.view.MenuItem;

import android.widget.TextView;

import com.google.android.material.navigation.NavigationView;

public class MainActivity extends AppCompatActivity implements

NavigationView.OnNavigationItemSelectedListener{

    public DrawerLayout drawerLayout;

    public ActionBarDrawerToggle actionBarDrawerToggle;

    private NavigationView nav;

    private Context context=this;

    @SuppressLint("MissingInflatedId")

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        // drawer layout instance to toggle the menu icon to open

        // drawer and back button to close drawer

        drawerLayout = findViewById(R.id.my_drawer_layout);

        actionBarDrawerToggle = new ActionBarDrawerToggle(this, drawerLayout,

R.string.nav_open, R.string.nav_close);

        nav=(NavigationView)findViewById(R.id.nav_menu);

        nav.setNavigationItemSelectedListener(this);

        // pass the Open and Close toggle for the drawer layout listener

        // to toggle the button

        drawerLayout.addDrawerListener(actionBarDrawerToggle);

        actionBarDrawerToggle.syncState();

        // to make the Navigation drawer icon always appear on the action bar

        getSupportActionBar().setDisplayHomeAsUpEnabled(true);

    }

    // override the onOptionsItemSelected()

    // function to implement

    // the item click listener callback
```

```java
// to open and close the navigation
// drawer when the icon is clicked
@Override
public boolean onOptionsItemSelected(@NonNull MenuItem item) {
    if (actionBarDrawerToggle.onOptionsItemSelected(item)) {
        return true;
    }
    return super.onOptionsItemSelected(item);
}
@Override
public boolean onNavigationItemSelected(@NonNull MenuItem item) {
    Object menuItem;
    switch (item.getItemId()){
        case R.id.hod:
            Intent send1 = new Intent(MainActivity.this, HOD.class);
            startActivity(send1);
            break;
        case R.id.ao:
            Intent send2 = new Intent(MainActivity.this,AO.class);
            startActivity(send2);
            break;
        case R.id.pta:
            Intent send3 = new Intent(MainActivity.this,PTA.class);
            startActivity(send3);
            break;
        case R.id.incharge:
            Intent send4 = new Intent(MainActivity.this,class_incharge.class);
            startActivity(send4);
            break;
        case R.id.student:
            Intent send5=new Intent(MainActivity.this,student.class);
            startActivity(send5);
            break;
    }
    return false;
}
}
```

Pta_reg.java

```java
package com.example.nav;
import androidx.appcompat.app.AppCompatActivity;
import android.content.ContentValues;
import android.content.Intent;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
public class PTA_reg extends AppCompatActivity {
    private Button register,login;
    private SQLiteOpenHelper openHelper;
    private SQLiteDatabase db;
    private EditText regusername,regpassword;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_pta_reg);
        openHelper = new DatabaseHelper(this);
        register = findViewById(R.id.register);
        login = findViewById(R.id.login);
        regusername = findViewById(R.id.username);
        regpassword = findViewById(R.id.password);
        register.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                db = openHelper.getWritableDatabase();
                String username = regusername.getText().toString().trim();
                String password = regpassword.getText().toString().trim();
                if (username.isEmpty() || password.isEmpty()) {
                    Toast.makeText(PTA_reg.this, "Please fill all the details",
Toast.LENGTH_SHORT).show();
                } else {
                    insertData(username,password);
                    Toast.makeText(PTA_reg.this, "Registration Successful",
```

```java
            Toast.LENGTH_SHORT).show();
                }
            }
        });
        login.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                startActivity(new Intent(PTA_reg.this,PTA.class));
                finish();
            }
        });
    }
    public void insertData(String username,String password){
        ContentValues contentValues = new ContentValues();
        contentValues.put(DatabaseHelper.COL_2,username);
        contentValues.put(DatabaseHelper.COL_3,password);
        long id = db.insert(DatabaseHelper.TABLE_pta,null,contentValues);
        db.close();
    }
}
```

pta.java

```java
package com.example.nav;
import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;
import android.annotation.SuppressLint;
import android.content.Intent;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;
public class PTA extends AppCompatActivity {
    private TextView register;
    private EditText username,password;
```

```java
    private Button loginButton;
    private SQLiteDatabase db;
    private SQLiteOpenHelper openHelper;
    private Cursor cursor;
    @SuppressLint("MissingInflatedId")
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_pta);
        openHelper = new DatabaseHelper(this);
        db = openHelper.getReadableDatabase();
        register = findViewById(R.id.register);
        username = findViewById(R.id.username);
        password= findViewById(R.id.password);
        loginButton = findViewById(R.id.login);
        loginButton.setOnClickListener(new View.OnClickListener() {
            @SuppressLint("Range")
            @Override
            public void onClick(View v) {
                String uname = username.getText().toString().trim();
                String pswd = password.getText().toString().trim();
                if (uname.isEmpty() || pswd.isEmpty()) {
                    Toast.makeText(PTA.this, "Enter your Email and Password to login",
Toast.LENGTH_SHORT).show();
                } else {
                    cursor = db.rawQuery("SELECT *FROM " + DatabaseHelper.TABLE_pta + "
WHERE " + DatabaseHelper.COL_2 + "=? AND " + DatabaseHelper.COL_3 + "=?", new
String[]{uname, pswd});
                    if(cursor.getCount()==0){
                        Toast.makeText(PTA.this,"no entries exist",Toast.LENGTH_SHORT).show();
                        return;
                    }
                    while(cursor.moveToNext()){
                        String name=cursor.getString(1);
                        Intent intent=new Intent(PTA.this,PTA_main.class);
                        startActivity(intent);
                    }
                }
```

```
        }
      });
      register.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
          startActivity(new Intent(PTA.this,PTA_reg.class));
          finish();
        }
      });
    }
}
```

register.java

```java
package com.example.nav;
import androidx.appcompat.app.AppCompatActivity;
import android.content.ContentValues;
import android.content.Intent;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
public class register extends AppCompatActivity {
    private Button register,login;
    private SQLiteOpenHelper openHelper;
    private SQLiteDatabase db;
    private EditText regusername,regpassword;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_register);
        openHelper = new DatabaseHelper(this);
        register = findViewById(R.id.register);
        login = findViewById(R.id.login);
        regusername = findViewById(R.id.username);
        regpassword = findViewById(R.id.password);
        register.setOnClickListener(new View.OnClickListener() {
```

```java
        @Override
        public void onClick(View v) {
            db = openHelper.getWritableDatabase();
            String username = regusername.getText().toString().trim();
            String password = regpassword.getText().toString().trim();
            if (username.isEmpty() || password.isEmpty()) {
                Toast.makeText(register.this, "Please fill all the details",
Toast.LENGTH_SHORT).show();
            } else {
                insertData(username,password);
                Toast.makeText(register.this, "Registration Successful",
Toast.LENGTH_SHORT).show();
            }
        }
    });
    login.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            startActivity(new Intent(register.this,HOD.class));
            finish();
        }
    });
}
public void insertData(String username,String password){
    ContentValues contentValues = new ContentValues();
    contentValues.put(DatabaseHelper.COL_2,username);
    contentValues.put(DatabaseHelper.COL_3,password);
    long id = db.insert(DatabaseHelper.TABLE_hod,null,contentValues);
    db.close();
}
}
```

stdlist.java

```java
package com.example.nav;
import androidx.appcompat.app.AppCompatActivity;
import androidx.appcompat.app.AppCompatActivity;
import androidx.recyclerview.widget.LinearLayoutManager;
import androidx.recyclerview.widget.RecyclerView;
import android.annotation.SuppressLint;
```

```java
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.os.Bundle;
import java.util.ArrayList;
import java.util.List;
public class stdlistl extends AppCompatActivity {
    private RecyclerView recyclerView;
    private StudentAdapter adapter;
    private List<Student1> studentList;
    private DatabaseHelper databaseHelper;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_stdlistl);
        recyclerView = findViewById(R.id.recyclerview);
        recyclerView.setLayoutManager(new LinearLayoutManager(this));
        studentList = new ArrayList<>();
        databaseHelper = new DatabaseHelper(this);
        adapter = new StudentAdapter(this, studentList);
        recyclerView.setAdapter(adapter);
        fetchdata();
    }
    private void fetchdata() {
        studentList.clear();
        // Fetching students from the database
        SQLiteDatabase db = databaseHelper.getReadableDatabase();
        String query = "SELECT * FROM " + DatabaseHelper.TABLE_STUDENTS;
        Cursor cursor = db.rawQuery(query, null);
        if (cursor.moveToFirst()) {
            do {
                @SuppressLint("Range") int id =
cursor.getInt(cursor.getColumnIndex(DatabaseHelper.COLUMN_ID));
                @SuppressLint("Range") String name =
cursor.getString(cursor.getColumnIndex(DatabaseHelper.COLUMN_NAME));
                @SuppressLint("Range") byte[] image =
cursor.getBlob(cursor.getColumnIndex(DatabaseHelper.COLUMN_IMAGE));
                @SuppressLint("Range") String
dept=cursor.getString(cursor.getColumnIndex(DatabaseHelper.COLUMN_dept));
```

```java
        @SuppressLint("Range") String
year=cursor.getString(cursor.getColumnIndex(DatabaseHelper.COLUMN_year));
        @SuppressLint("Range") String
rollno=cursor.getString(cursor.getColumnIndex(DatabaseHelper.COLUMN_rollno));
        // Creating a Student object and adding it to the list
        Student1 student = new Student1(id, name, image,dept,year,rollno);
        studentList.add(student);
      } while (cursor.moveToNext());
    }
    cursor.close();
  }
}
```

student_main.java

```java
package com.example.nav;
import androidx.annotation.NonNull;
import androidx.appcompat.app.ActionBarDrawerToggle;
import androidx.appcompat.app.AppCompatActivity;
import androidx.drawerlayout.widget.DrawerLayout;
import android.annotation.SuppressLint;
import android.content.Context;
import android.content.Intent;
import android.database.Cursor;
import android.os.Bundle;
import android.view.MenuItem;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
import android.widget.Toast;
import com.google.android.material.navigation.NavigationView;
import java.util.jar.Attributes;
public class student_main extends AppCompatActivity implements
NavigationView.OnNavigationItemSelectedListener {
  DatabaseHelper Db;
  TextView name,std_Name;
  String wel="welcome ";
  String Name;
  public DrawerLayout drawerLayout;
  public ActionBarDrawerToggle actionBarDrawerToggle;
```

```java
        private NavigationView nav;
        private Context context=this;
        @SuppressLint("MissingInflatedId")
        @Override
        protected void onCreate(Bundle savedInstanceState) {
            super.onCreate(savedInstanceState);
            setContentView(R.layout.activity_student_main);
            Db=new DatabaseHelper(this);
            drawerLayout = findViewById(R.id.my_drawer_layout);
            actionBarDrawerToggle = new ActionBarDrawerToggle(this, drawerLayout,
    R.string.nav_open, R.string.nav_close);
            nav=(NavigationView)findViewById(R.id.nav_menu);
            nav.setNavigationItemSelectedListener(this);
            // pass the Open and Close toggle for the drawer layout listener
            // to toggle the button
            drawerLayout.addDrawerListener(actionBarDrawerToggle);
            actionBarDrawerToggle.syncState();
            // to make the Navigation drawer icon always appear on the action bar
            getSupportActionBar().setDisplayHomeAsUpEnabled(true);
            name=findViewById(R.id.name);
            std_Name=findViewById(R.id.std_name);
            Intent intent=getIntent();
            Name=intent.getStringExtra("Name");
            String std_name=intent.getStringExtra("std_name");
            name.setText(Name);
            std_Name.setText(wel+std_name);
        }
        public boolean onOptionsItemSelected(@NonNull MenuItem item) {
            if (actionBarDrawerToggle.onOptionsItemSelected(item)) {
                return true;
            }
            return super.onOptionsItemSelected(item);
        }
        @Override
        public boolean onNavigationItemSelected(@NonNull MenuItem item) {
            Object menuItem;
            switch (item.getItemId()) {
                case R.id.venga:
```

```
                Intent send1 = new Intent(student_main.this, change_pswd.class);
                send1.putExtra("username",Name);
                startActivity(send1);
                break;
            case R.id.update:
                Cursor cursor=Db.getstddata(Name);
                if(cursor.getCount()==0){
                    Toast.makeText(student_main.this,"No entries",Toast.LENGTH_SHORT).show();
                }
                else{
                    while(cursor.moveToNext()){
                        @SuppressLint("Range") String name =
cursor.getString(cursor.getColumnIndex(DatabaseHelper.COLUMN_NAME));
                        @SuppressLint("Range") String roll =
cursor.getString(cursor.getColumnIndex(DatabaseHelper.COLUMN_rollno));
                        @SuppressLint("Range") String dept =
cursor.getString(cursor.getColumnIndex(DatabaseHelper.COLUMN_dept));
                        @SuppressLint("Range") String mail =
cursor.getString(cursor.getColumnIndex(DatabaseHelper.COLUMN_mail));
                        @SuppressLint("Range") String year =
cursor.getString(cursor.getColumnIndex(DatabaseHelper.COLUMN_year));
                        @SuppressLint("Range") byte[] image =
cursor.getBlob(cursor.getColumnIndex(DatabaseHelper.COLUMN_IMAGE));
                        @SuppressLint("Range") String mname =
cursor.getString(cursor.getColumnIndex(DatabaseHelper.COLUMN_mother_name));
                        @SuppressLint("Range") String fname =
cursor.getString(cursor.getColumnIndex(DatabaseHelper.COLUMN_father_name));
                        @SuppressLint("Range") String address =
cursor.getString(cursor.getColumnIndex(DatabaseHelper.COLUMN_address));
                        @SuppressLint("Range") String phno =
cursor.getString(cursor.getColumnIndex(DatabaseHelper.COLUMN_mobile_no));
                        Intent send2 = new Intent(student_main.this, update_student.class);
                        send2.putExtra("name", name);
                        send2.putExtra("roll", roll);
                        send2.putExtra("dept", dept);
                        send2.putExtra("mail", mail);
                        send2.putExtra("year", year);
                        send2.putExtra("image",image);
```

```
                send2.putExtra("mname",mname);

                send2.putExtra("fname",fname);

                send2.putExtra("phno",phno);

                send2.putExtra("address",address);

                startActivity(send2);

            }

        }

        break;

    }

    return false;

}
}
```

student_reg.java

```java
package com.example.nav;

import androidx.appcompat.app.AppCompatActivity;

import android.annotation.SuppressLint;

import android.content.ContentValues;

import android.content.Context;

import android.content.Intent;

import android.database.sqlite.SQLiteDatabase;

import android.database.sqlite.SQLiteOpenHelper;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Toast;

public class student_reg extends AppCompatActivity {

    private Button register,login;

    private SQLiteOpenHelper openHelper;

    private SQLiteDatabase db;

    private EditText regusername,regpassword;

    @SuppressLint("MissingInflatedId")

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_student_reg);

        openHelper = new DatabaseHelper(this);

        register = findViewById(R.id.register);
```

```java
        login = findViewById(R.id.login);
        regusername = findViewById(R.id.username);
        regpassword = findViewById(R.id.password);
        register.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                db = openHelper.getWritableDatabase();
                String username = regusername.getText().toString().trim();
                String password = regpassword.getText().toString().trim();
                if (username.isEmpty() || password.isEmpty()) {
                    Toast.makeText(student_reg.this, "Please fill all the details",
Toast.LENGTH_SHORT).show();
                } else {
                    insertData(username,password);
                    Toast.makeText(student_reg.this, "Registration Successful",
Toast.LENGTH_SHORT).show();
                }
            }
        });
        login.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                startActivity(new Intent(student_reg.this,student.class));
                finish();
            }
        });
    }
    public void insertData(String username,String password){
        ContentValues contentValues = new ContentValues();
        contentValues.put(DatabaseHelper.COL_2,username);
        contentValues.put(DatabaseHelper.COL_3,password);
        long id = db.insert(DatabaseHelper.TABLE_student,null,contentValues);
    }
}
```

student.java

```java
package com.example.nav;
import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;
```

```java
import android.annotation.SuppressLint;
import android.content.Intent;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;
public class student extends AppCompatActivity {
    private TextView register;
    private EditText username,password;
    private Button loginButton;
    private SQLiteDatabase db;
    private Cursor cursor;
    @SuppressLint("MissingInflatedId")
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_student);
        SQLiteOpenHelper openHelper = new DatabaseHelper(this);
        db = openHelper.getReadableDatabase();
        register = findViewById(R.id.register);
        username = findViewById(R.id.username);
        password= findViewById(R.id.password);
        loginButton = findViewById(R.id.login);
        loginButton.setOnClickListener(new View.OnClickListener() {
            @SuppressLint("Range")
            @Override
            public void onClick(View v) {
                String uname = username.getText().toString().trim();
                String pswd = password.getText().toString().trim();
                if (uname.isEmpty() || pswd.isEmpty()) {
                    Toast.makeText(student.this, "Enter your Email and Password to login",
Toast.LENGTH_SHORT).show();
                } else {
```

```
                    cursor = db.rawQuery("SELECT *FROM " + DatabaseHelper.TABLE_STUDENTS +
" WHERE " + DatabaseHelper.COLUMN_mail + "=? AND " + DatabaseHelper.COLUMN_pswd
+ "=?", new String[]{uname, pswd});
                if(cursor.getCount()==0){
                    Toast.makeText(student.this,"no entries exist",Toast.LENGTH_SHORT).show();
                    return;
                }
                while(cursor.moveToNext()){
                    Intent intent=new Intent(student.this,student_main.class);
                    String std_name =
cursor.getString(cursor.getColumnIndex(DatabaseHelper.COLUMN_NAME));
                    intent.putExtra("Name",uname);
                    intent.putExtra("std_name",std_name);
                    startActivity(intent);
                }
            }
        }
    });

    }
}
```

DATABASE FILE:

DatabaseHelper.java

```
package com.example.nav;
import android.content.ContentValues;
import android.content.Context;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;
import android.graphics.Bitmap;
import java.io.ByteArrayOutputStream;
import java.util.ArrayList;
public class DatabaseHelper extends SQLiteOpenHelper {
    private static final String LOG = "DatabaseHelper";
    // Database Version
    // Table Names
    public static final String TABLE_hod = "HOD";
    public static final String TABLE_ao = "AO";
```

```java
public static final String TABLE_pta = "PTA";

public static final String TABLE_ci="CI";

public static final String TABLE_student="studentlog";

public static final String TABLE_STD_DETAILS="std_details";

private static final String COL_1="ID";

public static final String COL_2="username";

public static final String COL_3="password";

public static final String std_name="name";

public static final String std_mail="mail";

public static final String std_dept="dept";

private ByteArrayOutputStream objectByteoutputstream;

private byte[] imageinbyte;

private static final String DATABASE_NAME = "vssr.db";

private static final int DATABASE_VERSION = 1;

public static final String TABLE_STUDENTS = "student";

public static final String COLUMN_ID = "id";

public static final String COLUMN_NAME = "name";

public static final String COLUMN_IMAGE = "image";

public static final String COLUMN_dept = "dept";

public static final String COLUMN_year = "year";

public static final String COLUMN_rollno = "rollno";

public static final String COLUMN_mail = "mail";

public static final String COLUMN_pswd = "pswd";

public static final String COLUMN_mother_name = "mother_name";

public static final String COLUMN_father_name = "father_name";

public static final String COLUMN_Aadhar_no = "Aadhar_no";

public static final String COLUMN_mobile_no = "mobile_no";

public static final String COLUMN_hostel = "hostel";

public static final String COLUMN_address = "address";

private static final String CREATE_TABLE_STUDENTS = "CREATE TABLE " +
TABLE_STUDENTS +
    "(" + COLUMN_ID + " INTEGER PRIMARY KEY AUTOINCREMENT," +
    COLUMN_NAME + " TEXT," +
    COLUMN_IMAGE + " BLOB," +
    COLUMN_dept + " TEXT," +
    COLUMN_year + " TEXT," +
    COLUMN_rollno + " TEXT," +
    COLUMN_mail + " TEXT," +
```

```java
                COLUMN_pswd + " TEXT," +
                COLUMN_mother_name + " TEXT," +
                COLUMN_father_name + " TEXT," +
                COLUMN_Aadhar_no + " TEXT," +
                COLUMN_mobile_no + " TEXT," +
                COLUMN_hostel + " TEXT," +
                COLUMN_address + " TEXT)";


    private static final String CREATE_TABLE_hod = "CREATE TABLE "
            + TABLE_hod + "(" + COL_1 + " INTEGER PRIMARY KEY," + COL_2
            + " TEXT," + COL_3 + " TEXT" + ")";
    private static final String CREATE_TABLE_ao = "CREATE TABLE "
            + TABLE_ao + "(" + COL_1 + " INTEGER PRIMARY KEY," + COL_2
            + " TEXT," + COL_3 + " TEXT" + ")";
    private static final String CREATE_TABLE_pta = "CREATE TABLE "
            + TABLE_pta + "(" + COL_1 + " INTEGER PRIMARY KEY," + COL_2
            + " TEXT," + COL_3 + " TEXT" + ")";
    private static final String CREATE_TABLE_ci = "CREATE TABLE "
            + TABLE_ci + "(" + COL_1 + " INTEGER PRIMARY KEY," + COL_2
            + " TEXT," + COL_3 + " TEXT" + ")";
    private static final String CREATE_TABLE_student = "CREATE TABLE "
            + TABLE_student + "(" + COL_1 + " INTEGER PRIMARY KEY," + COL_2
            + " TEXT," + COL_3 + " TEXT" + ")";
    private static final String CREATE_TABLE_STD_DETAILS ="CREATE TABLE "+
TABLE_STD_DETAILS
            + "(" + COL_1 +"INTEGER PRIMARY KRY,"
+std_name+"TEXT,"+std_mail+"TEXT,"+std_dept+"TEXT"+")";
    public DatabaseHelper(Context context) {
        super(context, DATABASE_NAME, null, DATABASE_VERSION);
    }
    @Override
    public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {
        // on upgrade drop older tables
        db.execSQL("DROP TABLE IF EXISTS " + TABLE_hod);
        db.execSQL("DROP TABLE IF EXISTS " + TABLE_ao);
        db.execSQL("DROP TABLE IF EXISTS " + TABLE_pta);
        db.execSQL("DROP TABLE IF EXISTS " + TABLE_ci);
        db.execSQL("DROP TABLE IF EXISTS " + TABLE_student);
```

```java
    db.execSQL("DROP TABLE IF EXISTS " + TABLE_STUDENTS);
    // create new tables
    onCreate(db);
}
@Override
public void onCreate(SQLiteDatabase db) {
    // creating required tables
    db.execSQL(CREATE_TABLE_ao);
    db.execSQL(CREATE_TABLE_hod);
    db.execSQL(CREATE_TABLE_pta);
    db.execSQL(CREATE_TABLE_ci);
    db.execSQL(CREATE_TABLE_student);
    db.execSQL(CREATE_TABLE_STUDENTS);
}
public Cursor getdata(){
    SQLiteDatabase db=this.getWritableDatabase();
    Cursor cursor=db.rawQuery("select * from HOD",null);
    return cursor;
}
public Cursor getstddata(String Name){
    SQLiteDatabase db=this.getWritableDatabase();
    Cursor cursor=db.rawQuery("select * from student where mail=?",new String[]{Name});
    return cursor;
}
public Boolean insertdata(String name, Bitmap image, String dept, String year, String rollno){
    String e_mail=rollno+"@nbkrist.org";
    SQLiteDatabase db=this.getWritableDatabase();
    objectByteoutputstream=new ByteArrayOutputStream();
    image.compress(Bitmap.CompressFormat.JPEG,100,objectByteoutputstream);
    imageinbyte=objectByteoutputstream.toByteArray();
    ContentValues contentValues=new ContentValues();
    contentValues.put("name",name);
    contentValues.put("image",imageinbyte);
    contentValues.put("dept",dept);
    contentValues.put("year",year);
    contentValues.put("rollno",rollno);
    contentValues.put("mail",e_mail);
    contentValues.put("pswd",name);
```

```java
        contentValues.put("mother_name",name);
        contentValues.put("father_name",name);
        contentValues.put("Aadhar_no",name);
        contentValues.put("mobile_no",name);
        contentValues.put("hostel",name);
        contentValues.put("address",name);
        long result=db.insert("student",null,contentValues);
        if(result==-1){
            return false;
        }
        else{
            return true;
        }
    }
}
```

GRADLE FILE:

```gradle
plugins {
    id 'com.android.application'
}

android {
    namespace 'com.example.nav'
    compileSdk 33

    defaultConfig {
        applicationId "com.example.nav"
        minSdk 28
        targetSdk 33
        versionCode 1
        versionName "1.0"
        testInstrumentationRunner "androidx.test.runner.AndroidJUnitRunner"
    }
    buildTypes {
        release {
            minifyEnabled false
            proguardFiles getDefaultProguardFile('proguard-android-optimize.txt'), 'proguard-rules.pro'
        }
    }
```

```
compileOptions {
    sourceCompatibility JavaVersion.VERSION_1_8
    targetCompatibility JavaVersion.VERSION_1_8
}
}


dependencies {
    implementation 'androidx.appcompat:appcompat:1.6.1'
    implementation 'com.google.android.material:material:1.8.0'
    implementation 'androidx.constraintlayout:constraintlayout:2.1.4'
    implementation 'androidx.gridlayout:gridlayout:1.0.0'
    implementation 'androidx.drawerlayout:drawerlayout:1.2.0'
    testImplementation 'junit:junit:4.13.2'
    androidTestImplementation 'androidx.test.ext:junit:1.1.5'
    androidTestImplementation 'androidx.test.espresso:espresso-core:3.5.1'
    implementation 'com.google.android.material:material:1.3.0-alpha03'
}
```

CHAPTER 4

RESULTS
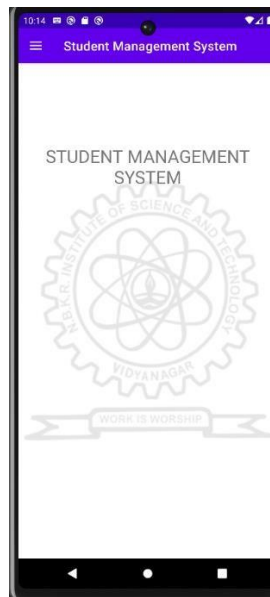
Fig : Home page
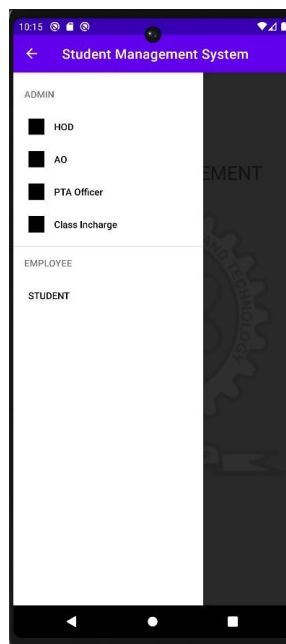
Fig : After click on the menu, it will display the modules of a project
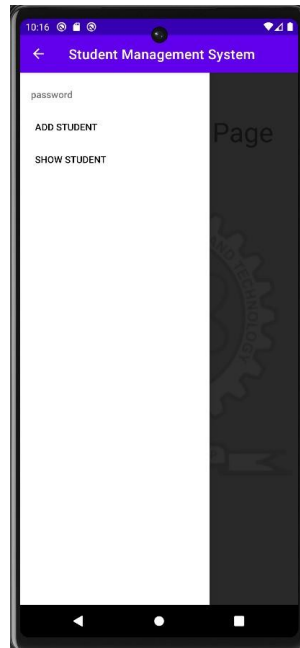
Fig: After Ao login the page it will shows Add student and display the list of the student
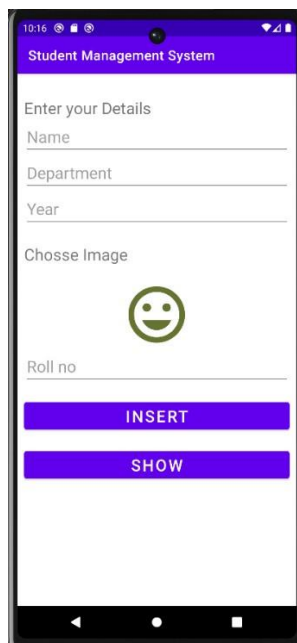
Fig: After click on the addstudent,it will shows student form
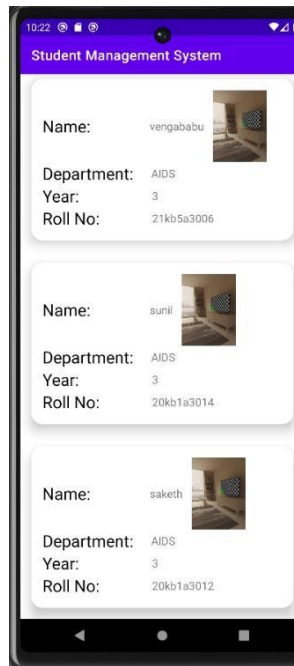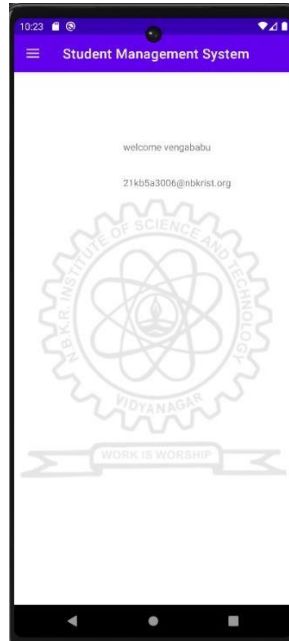
Fig: List of the student.

Fig: Student main page

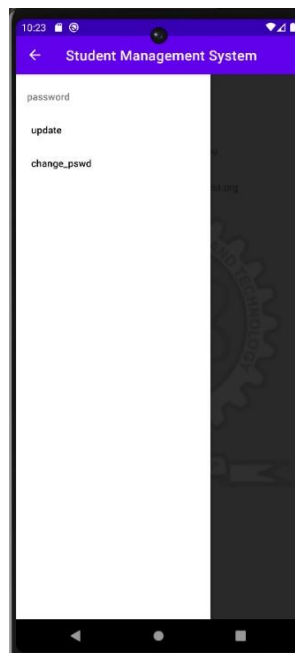Fig: After click on the menu bar it will shows student pages modules.

Fig: Student details update form

CHAPTER 5
CONCLUSION

In conclusion, the student record management system is an essential tool for educational institutions to efficiently manage and organize student information. This documentation has provided a comprehensive overview of the system's features, including student registration, enrollment, attendance tracking, and grade management. The system's user-friendly interface and intuitive design aim to streamline administrative tasks, save time, and enhance data accuracy. It emphasizes the importance of data security and privacy, highlighting measures such as role-based access control and data encryption. Furthermore, the documentation outlines the system's scalability, extensibility, and integration capabilities, enabling seamless integration with other educational systems and services. Overall, the student record management system documentation serves as a valuable resource for administrators, teachers, and staff, empowering them to effectively manage student records and support the educational process.

CHAPTER 6
REFERENCES