**A PROJECT REPORT**

**ON**

**“GOVERNMENT POLYTECHNIC AMBALA CITY (APPLICATION)”**

SUBMITTEDINPARTIALFULFILLMENTOFTHEREQUIREMENTS FORTHEAWARDOF



# DIPLOMAIN

**COMPUTER ENGINEERING**

# SUBMITTEDTO

**HARYANASTATEBOARDOFTECHNICALEDUCATION,HARYANAPANCHKULA**

**SUBMITTED BY**

**Name of Student Enrolment No**

1. **Raghav Kumar Prabhakar 190010800052**
2. **Aditya Bhatnagar 190010800004**

**GUIDED By**

***Mrs Payal Arora (Tutor)***



**GOVT. POLYTECHNIC AMBALA CITY**

**Academic Year**

**2019-2022**

***CERTIFICATE***

**This is to certify that the project entitled “GOVT. POLYTECHNIC AMBALA CITY (APPLICATION) was successfully completed by students’ of sixth semester diploma In Computer Engineering**

1. **Raghav Kumar Prabhakar 190 010800052**
2. **Aditya Bhatnagar 190010800004**



# In partial fulfillment of the requirements for the award of the Diploma in Computer Engineering and submitted to theDepartment of Computer Engineering of Govt.Polytechnic,AmbalaCityworkcarriedoutduringaperiodfortheacademicyear 2022 as percurriculum

# 

# 

# Mrs Payal Arora Mr. Munish Gupta

# Guided by HOD Computer Dept

# Dr. Rajiv Sapra

# External Examiner Principle of GP Ambala



**GOVT. POLYTECHNIC AMBALA CITY**

**Academic Year**

**2019-2022**

# ACKNOWLEDGMENT\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# This project is done as a major project titled “GOVT.POLYTECHNIC AMBALA CITY” , a part of course “Computer Engineering”.

# We are really thankful to the HOD Mr.Munish Gupta , “Computer Engineering”. Govt. Polytechnic, AmbalaCity, for their guidance and assistance , without which the accomplishment of the task would have never been possible.

# We also thankfulGovt Polytechnic Ambala City for giving us this opportunity to explore the real world and complete my project in working limited time.

# We are thankful to our parents, friends and all staff of Computer Engineering for providing us relevant information, necessary clarification and great support.

# 

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**ABSTRACT**

This application has two parts first is admin panel which is used for teachers and staff members and second is user panel which is used for students.The Government Polytechnic Ambala City application uses for teachers and students for both.

* Admin Panel – The admin panel is**included with your build and can be found on your App Dashboard**. It exists in order to give you control over your app once it's built. Start by creating your backend data models, admin, and APIs, and adding them to the admin panel. The backend will serve as the main first deliverable and makes for good demos.
* User panel- The User Panel is the right-side panel that appears on clicking one's profile picture in top right corner of Click page. This panel is the place where all user related actions can be performed. The top part of the panel consists of profile picture, accounts and status, and the body of the panel consists of My Click and Help.

Project Admin Panel is only access by teachers and staff member, which they can update data like Notice, College gallery, E-books, Video lectures, Faculty info for students and this update can only see by students in user panel.

Project User Panel is only access by students which they can only see update in user app which done by the teachers. From admin panel

Students can see video lectures, aware of new notices activities, download e-book which will be provided by teachers.

**CHAPTER 1**

* **Introduction**

Project has two parts first is admin panel and second is user panel this app is used for students and teachers staff members and other communities.This app is built for students and teachers’ good interaction.

In this app first is admin panel where teachers use app and upload all data like eBook lectures live videos and etc.The admin panel is**included with your build and can be found on your App Dashboard**. It exists in order to give you control over your app once it's built. Start by creating your backend data models, admin, and APIs, and adding them to the admin panel. The backend will serve as the main first deliverable and makes for good demos.And the second is user panel where student’s login this app and see all the activities, eBook provided by the teachers. The User Panel is the right-side panel that appears on clicking one's profile picture in top right corner of Click page. This panel is the place where all user related actions can be performed.

* **Background of study**

The scope of this application is for improving the education those students are not come in collegesand not do our studies then they are used for more interacted with teachers and know about all activities of our college.

* **Problem statement**

In this application we can solve many studies related issues with this application now we can share all study related materials like e-books, videos, live lectures, pdfsend etc.

When students not able to come college and wants to do study properly then this application is very useful

Sometimes teachers not able to gives our notices then with this application.They provided our all notifications on time to time.

* **Scope**

This application scope is so high. Because today's generation are mostly smart kids study online so this application is a good option for those kids who wants to study online.Online is also a good choice. Because in online we can understand the topic personally and much easier way also students get more information about other studies they do not did in physical studies.So, this application is a good choice and helpful for students who really interested to do something more in studies.

* Purpose of the project

In easy words to say of this project purpose is to provide more facilities to all students and also provides more about studies.With this application students can do our studies easily and also takes more advantages of digital studies.

**Chapter 2 Literature Review**

On previous days we all saw, when schools and colleges are not going well and closed for a big time period. Then many schools and colleges are used online methods for teaches the students.So, this application is also based on this purpose.

Students not done our studies with come college regularly. They need some more knowledge and information about other studies.

So digital way is a best option to do this in real we also created a application for our college. With this application teachers teaches students more about other studies and teaches students more easily.

* Analysis and design

We analyze the many problems in our college, like time shortage for big projects and not, collecting information by staff on time.

So, this application is also useful for these purposes.

Analysis emphasizes an investigation of the problem and requirements, rather than a solution. For example, if a new computerized library information system is desired, how will it be used?

“Analysis” is a broad term, best qualified, as in requirements analysis (an investigation of the requirements) or object analysis (an investigation of the domain objects).

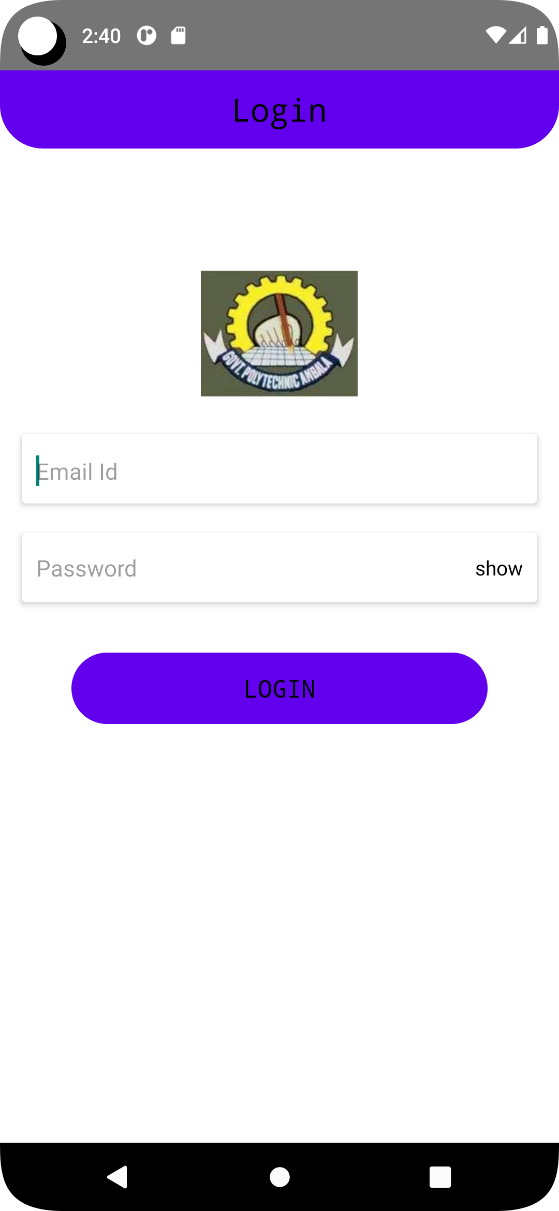
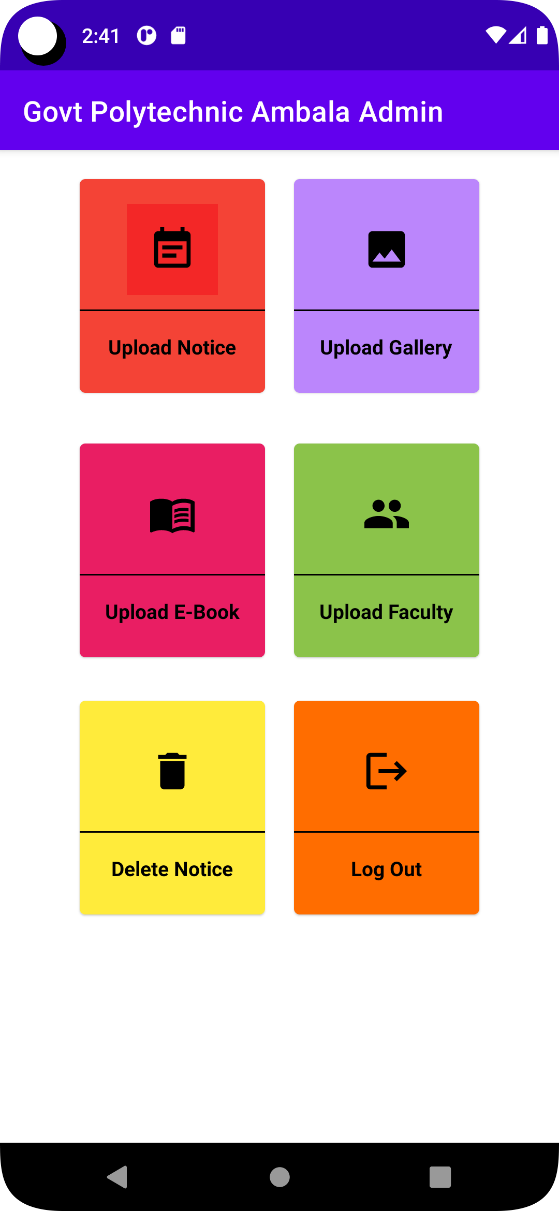
* Design

This application is designed by an educational purpose so this application is just for studying purposes and information, notification collecting on time.

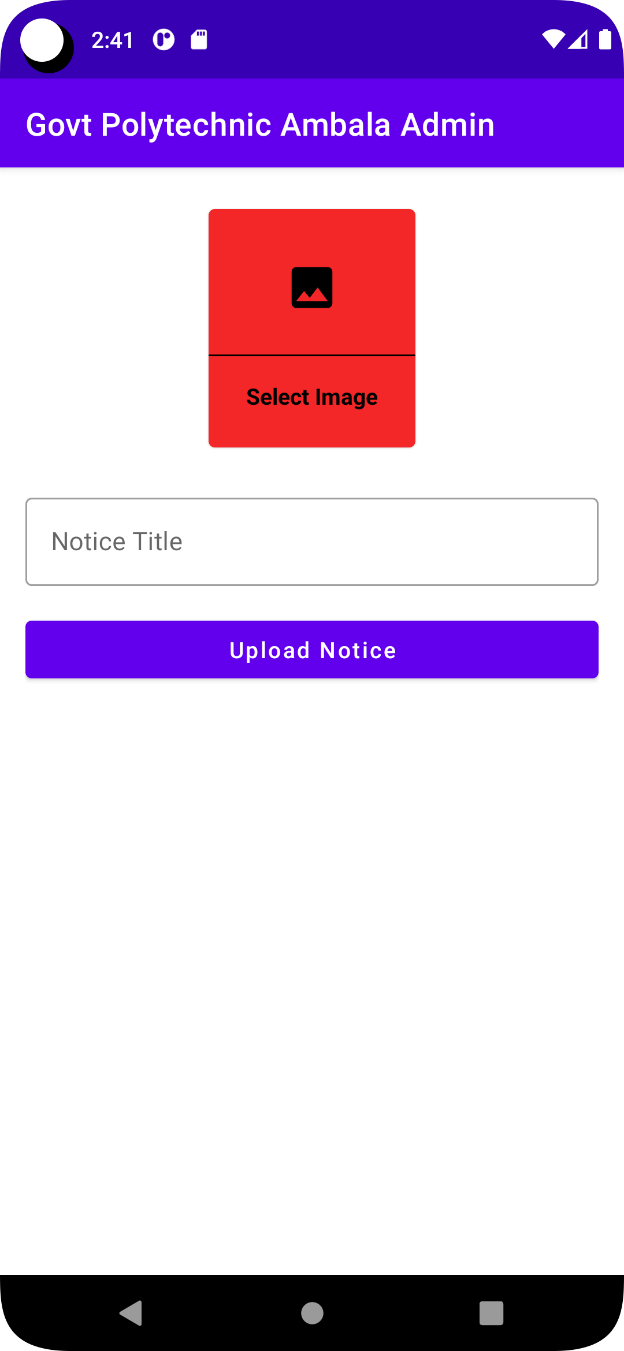
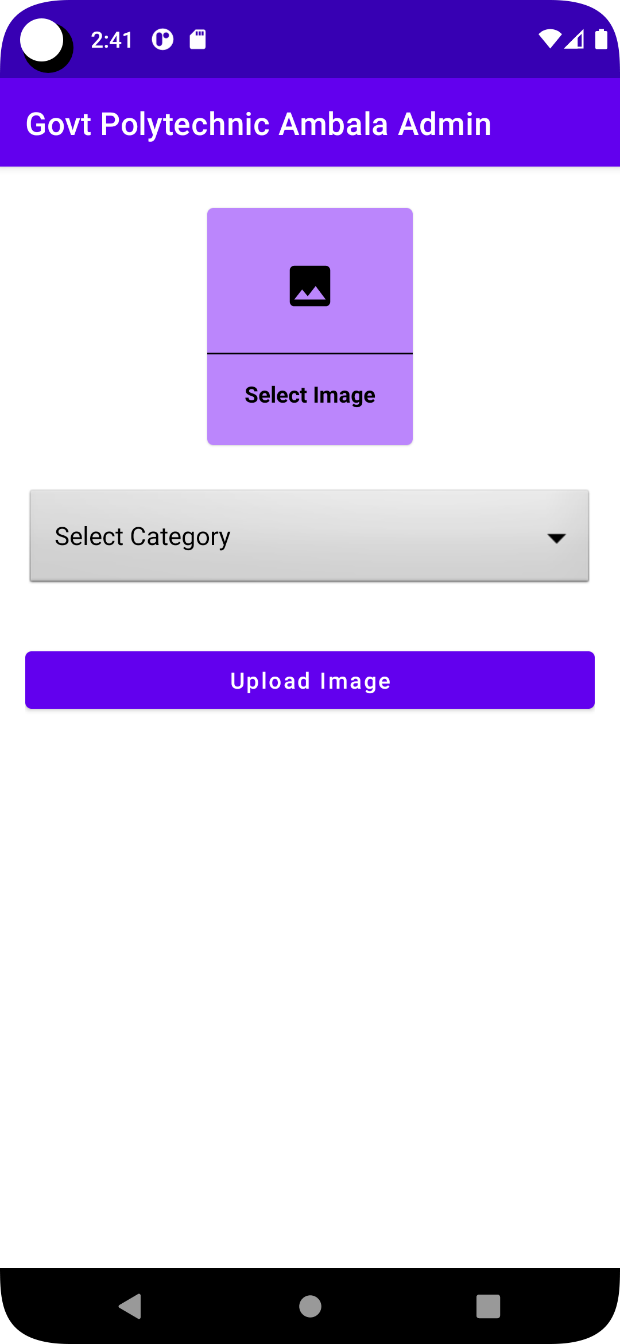
**“Govt Polytechnic Ambala Admin App”**

**(Preview)**

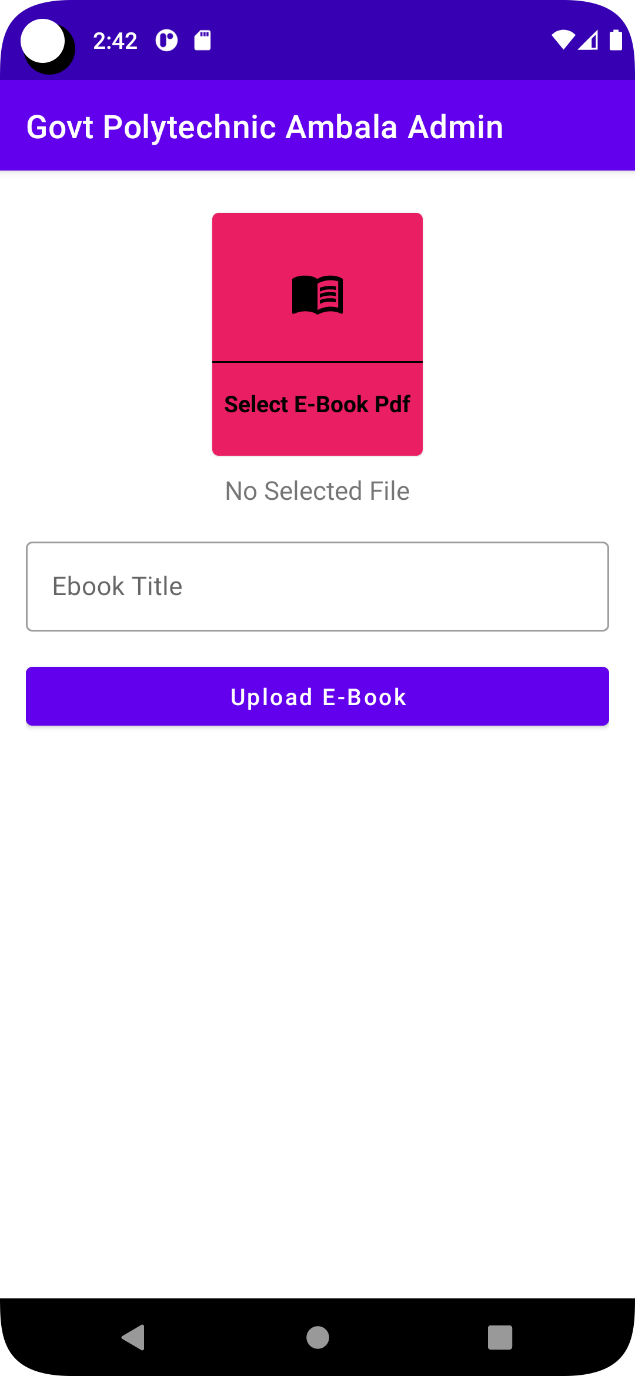
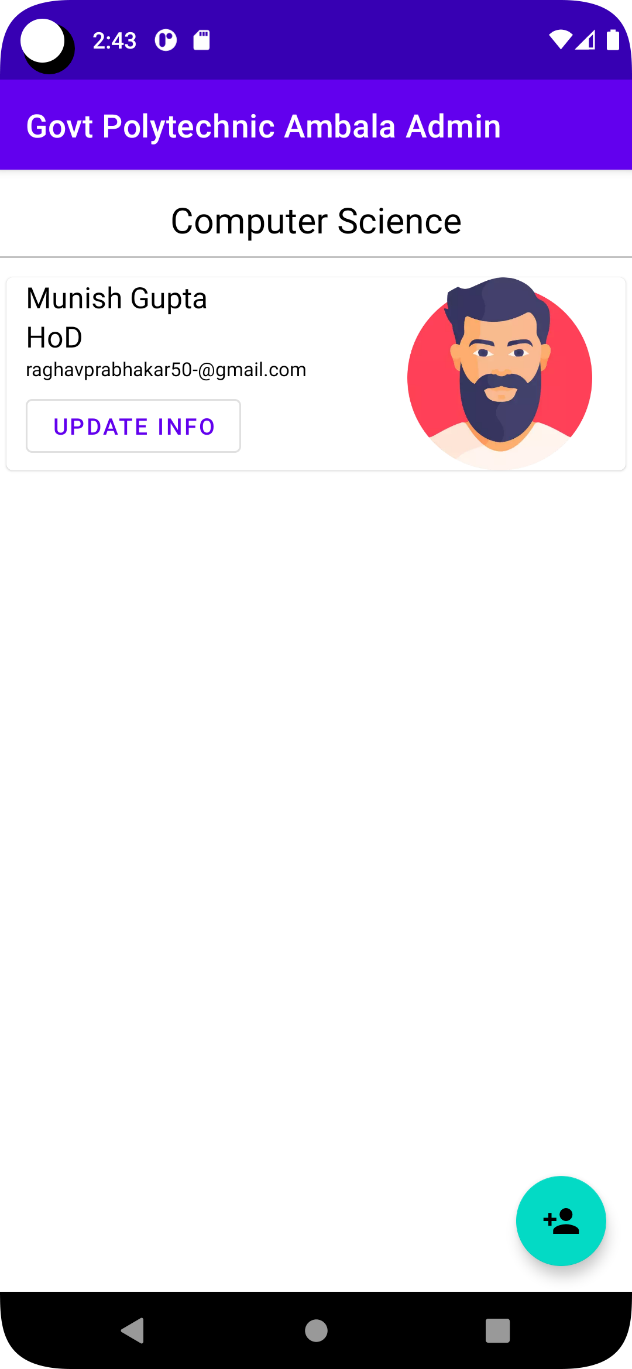
**Login Screen Admin Dashboard**

** **

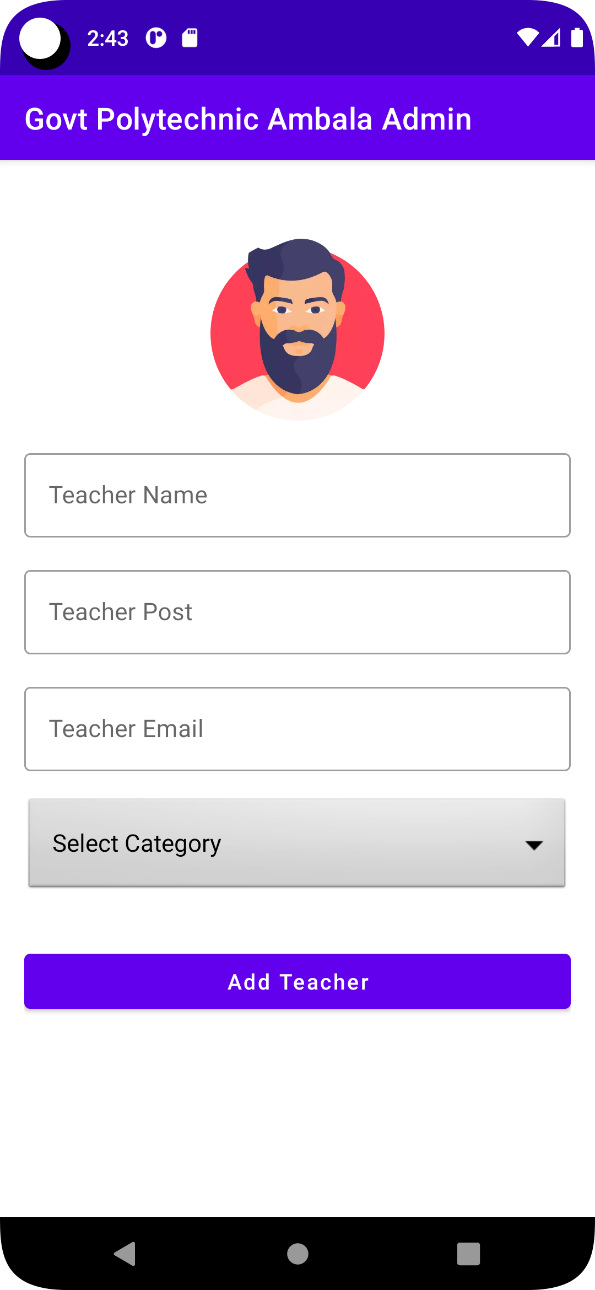
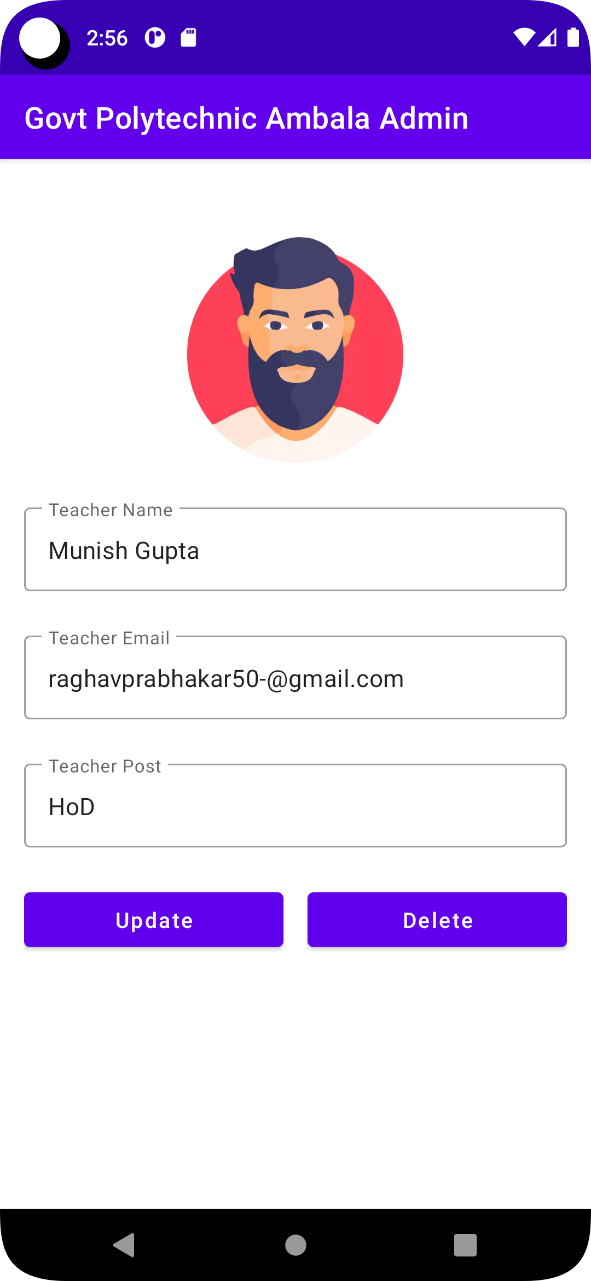
**Upload Notice Upload Gallery**

** **

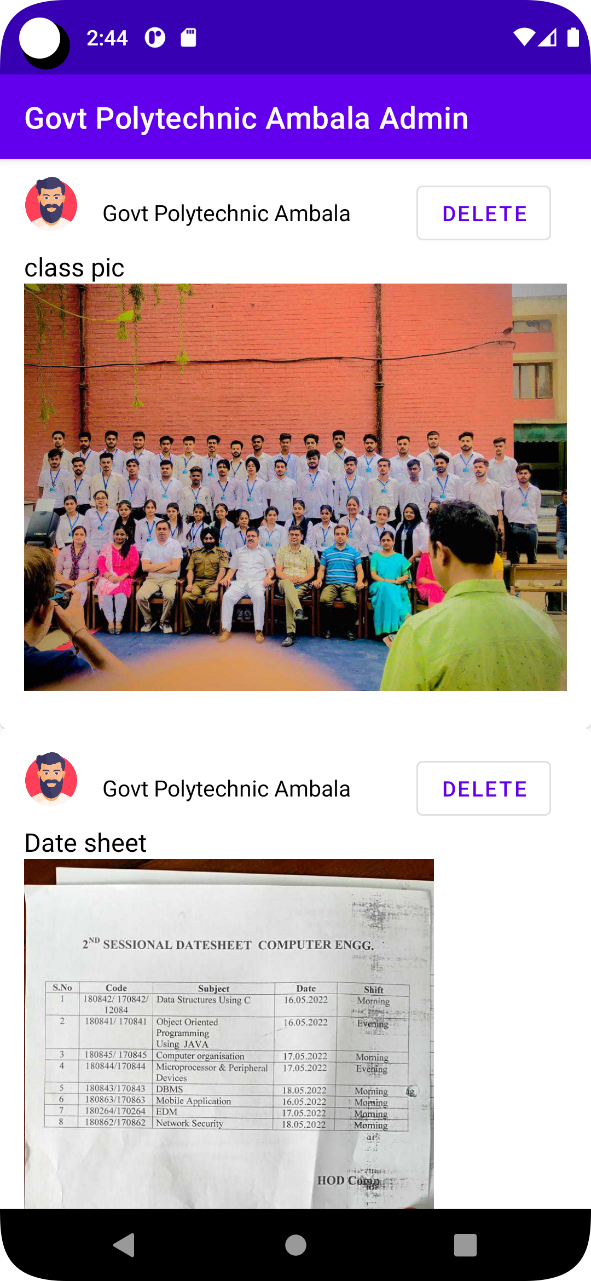
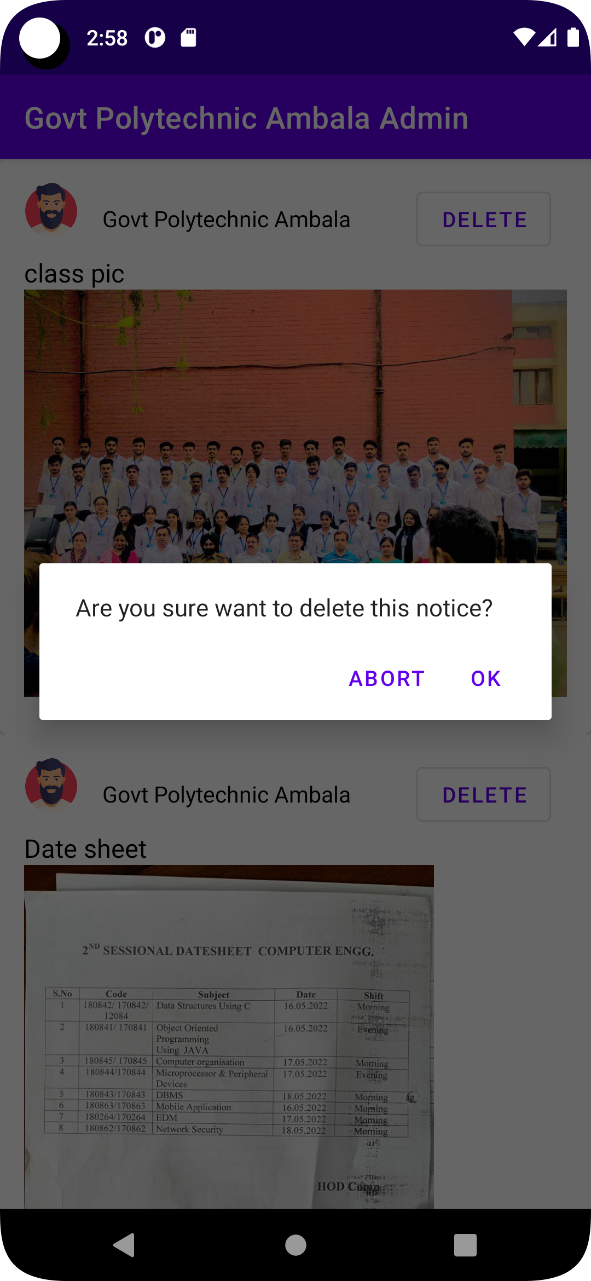
**Upload E-Book Upload faculty**

** **

**Add Teacher Update Teacher**

** **

**Delete Notice**

** **

**Making Of Admin Panel**

**Xml Code of login page**

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

<ScrollViewxmlns:android="http://schemas.android.com/apk/res/android"

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

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

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android:background="@android:color/white"

tools:context=".LoginActivity">

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android:layout\_width="match\_parent"

android:layout\_height="wrap\_content">

<RelativeLayout

android:id="@+id/topBar"

android:layout\_width="match\_parent"

android:layout\_height="55dp"

android:background="@drawable/bottom\_rounded">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Login"

android:textColor="@color/black"

android:layout\_centerInParent="true"

android:textSize="22sp"

android:fontFamily="monospace"/>

</RelativeLayout>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:layout\_below="@id/topBar"

android:orientation="vertical"

android:id="@+id/sign\_in"

android:layout\_marginTop="75dp">

<ImageView

android:layout\_width="110dp"

android:layout\_height="110dp"

android:layout\_gravity="center\_horizontal"

android:src="@drawable/icon"/>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginStart="10dp"

android:layout\_marginEnd="10dp"

android:layout\_marginTop="10dp"

android:orientation="vertical">

<androidx.cardview.widget.CardView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_margin="5dp"

app:cardElevation="3dp"

app:cardCornerRadius="3dp">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_margin="10dp">

<EditText

android:id="@+id/userEmail"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginTop="5dp"

android:layout\_marginBottom="2dp"

android:background="@null"

android:hint="Email Id"

android:fontFamily="sans-serif"

android:inputType="textEmailAddress"

android:textColor="@color/black"

android:textSize="16sp"/>

</LinearLayout>

</androidx.cardview.widget.CardView>

</LinearLayout>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginStart="10dp"

android:layout\_marginEnd="10dp"

android:layout\_marginTop="10dp"

android:orientation="vertical">

<androidx.cardview.widget.CardView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_margin="5dp"

app:cardElevation="3dp"

app:cardCornerRadius="3dp">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_margin="10dp">

<RelativeLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content">

<EditText

android:id="@+id/userPassword"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_centerVertical="true"

android:layout\_marginTop="5dp"

android:layout\_marginBottom="2dp"

android:background="@null"

android:fontFamily="sans-serif"

android:hint="Password"

android:inputType="textPassword"

android:textColor="@color/black"

android:textSize="16sp" />

<TextView

android:id="@+id/txt\_show"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentEnd="true"

android:layout\_centerVertical="true"

android:text="show"

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

</RelativeLayout>

</LinearLayout>

</androidx.cardview.widget.CardView>

</LinearLayout>

</LinearLayout>

<RelativeLayout

android:id="@+id/login\_btn"

android:layout\_width="match\_parent"

android:layout\_height="50dp"

android:layout\_below="@id/sign\_in"

android:background="@drawable/rounded\_corner"

android:layout\_marginStart="50dp"

android:layout\_marginEnd="50dp"

android:layout\_marginTop="30dp">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="LOGIN"

android:layout\_centerInParent="true"

android:textColor="@color/black"

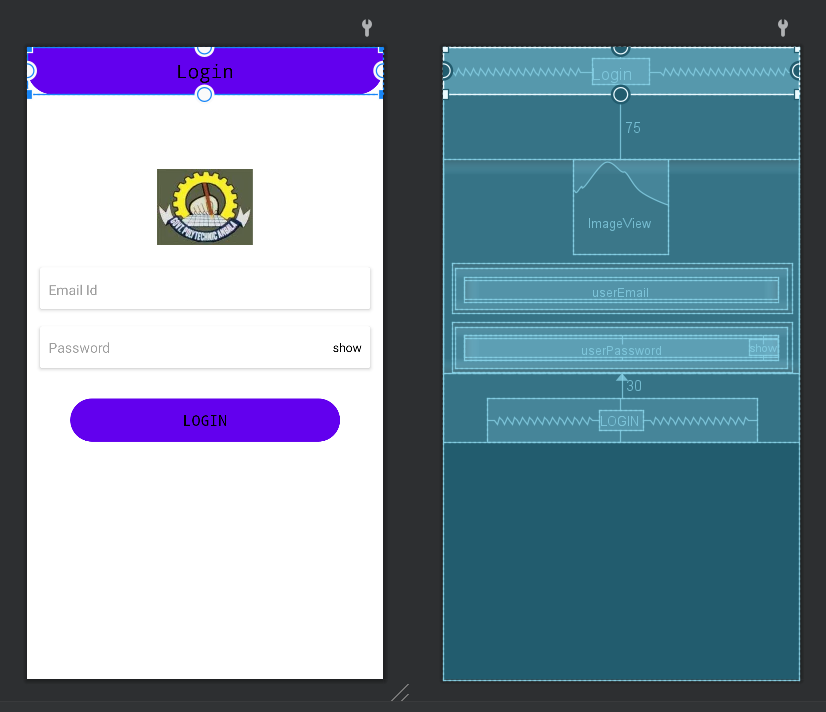
android:textSize="17sp"

android:fontFamily="monospace" />

</RelativeLayout>

</RelativeLayout>

</ScrollView>

****

**Java Coding of Login Page**

package com.example.govtpolytechnicambalaadmin;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.content.SharedPreferences;

import android.os.Bundle;

import android.view.View;

import android.widget.EditText;

import android.widget.RelativeLayout;

import android.widget.TextView;

import android.widget.Toast;

public class LoginActivity extends AppCompatActivity {

private EditTextuserEmail, userPassword;

private TextViewtvShow;

private RelativeLayoutloginBtn;

private SharedPreferencessharedPreferences;

private SharedPreferences.Editor editor;

private String email , pass;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate ( savedInstanceState );

setContentView( R.layout.activity\_login )

userEmail= findViewById ( R.id.userEmail );

userPassword = findViewById( R.id.userPassword );

tvShow = findViewById( R.id.txt\_show);

loginBtn = findViewById( R.id.login\_btn );

sharedPreferences = this.getSharedPreferences ( "Login",MODE\_PRIVATE );

editor = sharedPreferences.edit ();

if (sharedPreferences.getString( "isLogin" ,"false").equals ( "yes" )){

openDash ();

}

tvShow.setOnClickListener( newView.OnClickListener () {

@Override

public void onClick(View v) {

if (userPassword.getInputType () == 144){

userPassword.setInputType(129);

tvShow.setText ("Hide");

}else{

userPassword.setInputType( 144 );

tvShow.setText( "show" );

}

userPassword.setSelection( userPassword.getText ().length () );

}

} );

loginBtn.setOnClickListener( newView.OnClickListener () {

@Override

public void onClick(View v) {

validateData();

}

} );

}

private void validateData() {

email = userEmail.getText ().toString ();

pass = userPassword.getText ().toString ();

if(email.isEmpty ()){

userEmail.setError( "Required" );

userEmail.requestFocus ();

}else if (pass.isEmpty ()){

userPassword.setError( "Required" );

userPassword.requestFocus ();

}else if (email.equals ( "raghavprabhakar50@gmail.com" )&&pass.equals ( "raghav-190010800052" )){

editor.putString ( "isLogin","yes" );

editor.commit ();

openDash();

}else {

Toast.makeText( this, "Please Check Email and Password Again", Toast.LENGTH\_LONG ).show ();

}

}

private void openDash() {

startActivity( new Intent (LoginActivity.this,MainActivity.class) );

finish ();

}

}

**Admin Dashboard**

**Xml File of Admin Dashboard**

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

<LinearLayoutxmlns:android="http://schemas.android.com/apk/res/android"

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity"

android:orientation="vertical">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="horizontal"

android:gravity="center"

android:layout\_margin="10dp">

<com.google.android.material.card.MaterialCardView

android:layout\_width="130dp"

android:layout\_height="150dp"

android:layout\_margin="10dp"

android:id="@+id/addNotice">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

android:background="#F44336"

android:gravity="center">

<ImageView

android:layout\_width="64dp"

android:layout\_height="64dp"

android:background="@drawable/circle\_red"

android:src="@drawable/ic\_notice"

android:padding="15dp"/>

<View

android:layout\_width="match\_parent"

android:layout\_height="1dp"

android:background="@color/black"

android:layout\_marginTop="10dp"/>

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textColor="@color/black"

android:text="Upload Notice"

android:textStyle="bold"

android:padding="5dp"

android:layout\_marginTop="10dp"/>

</LinearLayout>

</com.google.android.material.card.MaterialCardView>

<com.google.android.material.card.MaterialCardView

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android:layout\_height="150dp"

android:layout\_margin="10dp"

android:id="@+id/addGalleryImage">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

android:background="@color/purple\_200"

android:gravity="center">

<ImageView

android:layout\_width="64dp"

android:layout\_height="64dp"

android:background="@drawable/circle\_purple"

android:src="@drawable/ic\_gallery"

android:padding="15dp"/>

<View

android:layout\_width="match\_parent"

android:layout\_height="1dp"

android:background="@color/black"

android:layout\_marginTop="10dp"/>

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textColor="@color/black"

android:text="Upload Gallery"

android:textStyle="bold"

android:padding="5dp"

android:layout\_marginTop="10dp"/>

</LinearLayout>

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</LinearLayout>

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android:orientation="horizontal"

android:gravity="center"

android:layout\_margin="5dp">

<com.google.android.material.card.MaterialCardView

android:layout\_width="130dp"

android:layout\_height="150dp"

android:layout\_margin="10dp"

android:id="@+id/addEbook">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:background="#E91E63"

android:orientation="vertical"

android:gravity="center">

<ImageView

android:layout\_width="64dp"

android:layout\_height="64dp"

android:background="@drawable/circle\_pink"

android:src="@drawable/ic\_ebook"

android:padding="15dp"/>

<View

android:layout\_width="match\_parent"

android:layout\_height="1dp"

android:background="@color/black"

android:layout\_marginTop="10dp"/>

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textColor="@color/black"

android:text="Upload E-Book"

android:textStyle="bold"

android:padding="5dp"

android:layout\_marginTop="10dp"/>

</LinearLayout>

</com.google.android.material.card.MaterialCardView>

<com.google.android.material.card.MaterialCardView

android:layout\_width="130dp"

android:layout\_height="150dp"

android:layout\_margin="10dp"

android:id="@+id/faculty">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

android:background="#8BC34A"

android:gravity="center">

<ImageView

android:layout\_width="64dp"

android:layout\_height="64dp"

android:background="@drawable/circle\_green"

android:src="@drawable/ic\_group"

android:padding="15dp"/>

<View

android:layout\_width="match\_parent"

android:layout\_height="1dp"

android:background="@color/black"

android:layout\_marginTop="10dp"/>

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textColor="@color/black"

android:text="Upload Faculty"

android:textStyle="bold"

android:padding="5dp"

android:layout\_marginTop="10dp"/>

</LinearLayout>

</com.google.android.material.card.MaterialCardView>

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android:gravity="center"

android:layout\_margin="5dp">

<com.google.android.material.card.MaterialCardView

android:layout\_width="130dp"

android:layout\_height="150dp"

android:layout\_margin="10dp"

android:id="@+id/deleteNotice">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

android:background="#FFEB3B"

android:gravity="center">

<ImageView

android:layout\_width="64dp"

android:layout\_height="64dp"

android:background="@drawable/circle\_yellow"

android:src="@drawable/ic\_delete"

android:padding="15dp"/>

<View

android:layout\_width="match\_parent"

android:layout\_height="1dp"

android:background="@color/black"

android:layout\_marginTop="10dp"/>

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textColor="@color/black"

android:text="Delete Notice"

android:textStyle="bold"

android:padding="5dp"

android:layout\_marginTop="10dp"/>

</LinearLayout>

</com.google.android.material.card.MaterialCardView>

<com.google.android.material.card.MaterialCardView

android:layout\_width="130dp"

android:layout\_height="150dp"

android:layout\_margin="10dp"

android:id="@+id/logout">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:background="#FF6D00"

android:orientation="vertical"

android:gravity="center">

<ImageView

android:layout\_width="64dp"

android:layout\_height="64dp"

android:background="#FF6D00"

android:src="@drawable/ic\_baseline\_logout\_24"

android:padding="15dp"/>

<View

android:layout\_width="match\_parent"

android:layout\_height="1dp"

android:background="@color/black"

android:layout\_marginTop="10dp"/>

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textColor="@color/black"

android:text="Log Out"

android:textStyle="bold"

android:padding="5dp"

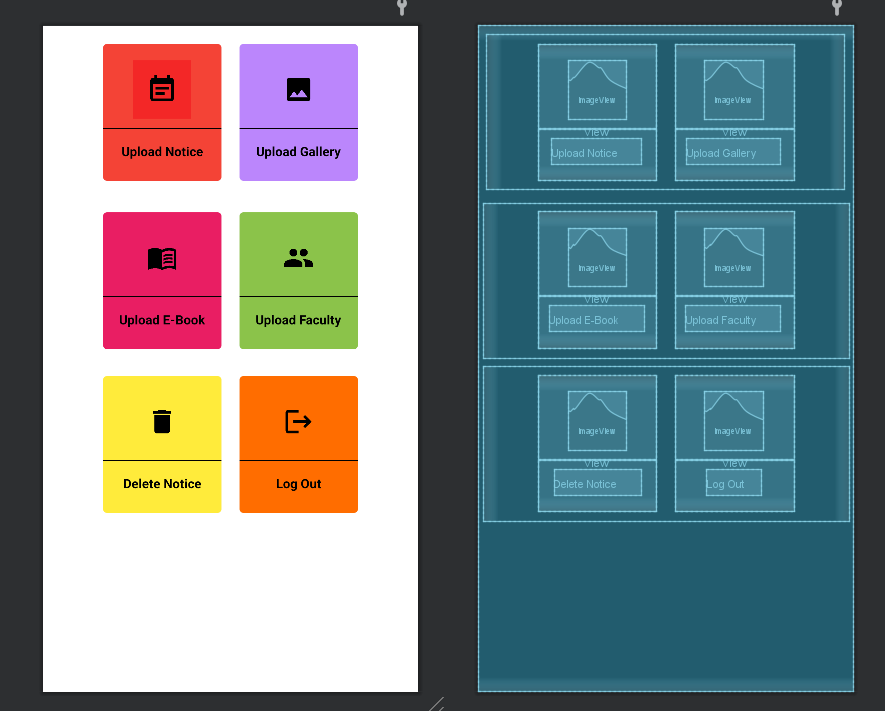
android:layout\_marginTop="10dp"/>

</LinearLayout>

</com.google.android.material.card.MaterialCardView>

</LinearLayout>

</LinearLayout>



**Java coding of Admin Dashboard**

package com.example.govtpolytechnicambalaadmin;

import androidx.appcompat.app.AppCompatActivity;

import androidx.cardview.widget.CardView;

import android.content.Intent;

import android.content.SharedPreferences;

import android.os.Bundle;

import android.view.View;

public class MainActivity extends AppCompatActivity implements View.OnClickListener {

CardViewuploadNotice ,addGalleryImage , addEbook ,faculty ,deleteNotice ,logout;

private SharedPreferencessharedPreferences;

private SharedPreferences.Editor editor;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

sharedPreferences = this.getSharedPreferences ( "Login",MODE\_PRIVATE );

editor = sharedPreferences.edit ();

if (sharedPreferences.getString( "isLogin" ,"false").equals ( "false" )){

openLogin ();

}

uploadNotice = findViewById(R.id.addNotice);

uploadNotice.setOnClickListener(this);

addGalleryImage = findViewById(R.id.addGalleryImage);

addGalleryImage.setOnClickListener(this);

addEbook = findViewById(R.id.addEbook);

addEbook.setOnClickListener(this);

faculty = findViewById(R.id.faculty);

faculty.setOnClickListener(this);

deleteNotice = findViewById(R.id.deleteNotice);

deleteNotice.setOnClickListener(this);

logout = findViewById( R.id.logout );

logout.setOnClickListener ( this );

}

private void openLogin() {

startActivity( new Intent (MainActivity.this,LoginActivity.class) );

finish ();

}

@Override

public void onClick(View view) {

Intent intent;

switch (view.getId()){

case R.id.addNotice:

intent = new Intent(MainActivity.this, UploadNotice.class);

startActivity(intent);

break;

case R.id.addGalleryImage:

intent = new Intent(MainActivity.this,UploadImage.class);

startActivity(intent);

break;

case R.id.addEbook:

intent = new Intent(MainActivity.this,UploadEbook.class);

startActivity(intent);

break;

case R.id.deleteNotice:

intent = new Intent(MainActivity.this,DeleteNoticeActivity.class);

startActivity(intent);

break;

case R.id.faculty:

intent = new Intent(MainActivity.this,UpdateFaculty.class);

startActivity(intent);

break;

case R.id.logout:

editor.putString ( "isLogin","false" );

editor.commit ();

openLogin ();

break;

}

}

}

**Upload Notice**

**Xml Code for Upload Notice**

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

<ScrollViewxmlns: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:padding="16dp"

tools:context=".UploadNotice">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical">

<com.google.android.material.card.MaterialCardView

android:layout\_width="130dp"

android:layout\_height="150dp"

android:layout\_margin="10dp"

android:layout\_gravity="center"

android:id="@+id/addImage">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:background="@drawable/circle\_red"

android:orientation="vertical"

android:gravity="center">

<ImageView

android:layout\_width="64dp"

android:layout\_height="64dp"

android:background="@drawable/circle\_red"

android:src="@drawable/ic\_gallery"

android:padding="15dp"/>

<View

android:layout\_width="match\_parent"

android:layout\_height="1dp"

android:background="@color/black"

android:layout\_marginTop="10dp"/>

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textColor="@color/black"

android:text="Select Image"

android:textStyle="bold"

android:padding="5dp"

android:layout\_marginTop="10dp"/>

</LinearLayout>

</com.google.android.material.card.MaterialCardView>

<com.google.android.material.textfield.TextInputLayout

style="@style/Widget.MaterialComponents.TextInputLayout.OutlinedBox"

android:layout\_width="match\_parent"

android:layout\_marginTop="16dp"

android:layout\_height="match\_parent">

<com.google.android.material.textfield.TextInputEditText

android:id="@+id/noticeTitile"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Notice Title"/>

</com.google.android.material.textfield.TextInputLayout>

<com.google.android.material.button.MaterialButton

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Upload Notice"

android:layout\_marginTop="16dp"

android:textAllCaps="false"

android:id="@+id/uploadNoticeBtn"/>

<com.google.android.material.card.MaterialCardView

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"/>

<ImageView

android:layout\_width="match\_parent"

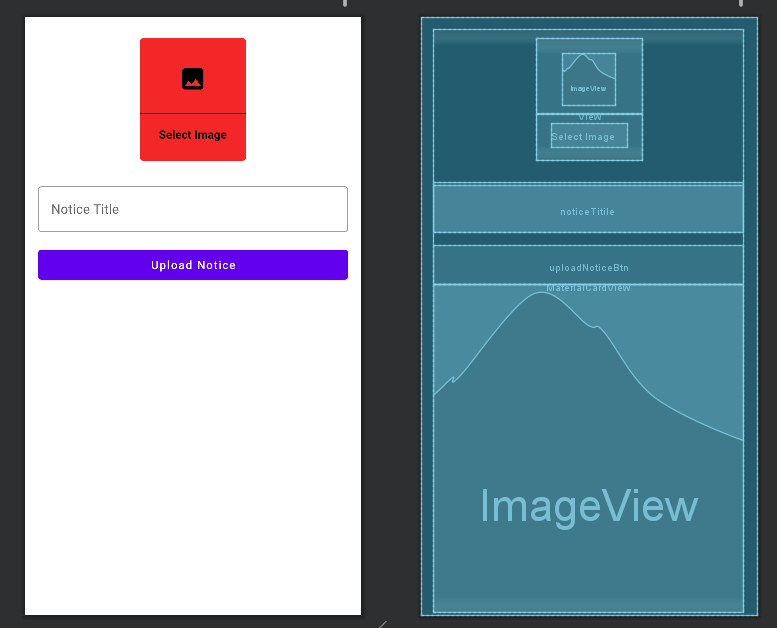
android:layout\_height="400dp"

android:scaleType="fitEnd"

android:id="@+id/noticeImageView"/>

</LinearLayout>

</ScrollView>



**Java Coding of Upload Notice**

**package com.example.govtpolytechnicambalaadmin;**

**import android.app.ProgressDialog;**

**import android.content.Intent;**

**import android.graphics.Bitmap;**

**import android.icu.text.SimpleDateFormat;**

**import android.net.Uri;**

**import android.os.Bundle;**

**import android.provider.MediaStore;**

**import android.widget.Button;**

**import android.widget.EditText;**

**import android.widget.ImageView;**

**import android.widget.Toast;**

**import androidx.annotation.Nullable;**

**import androidx.appcompat.app.AppCompatActivity;**

**import androidx.cardview.widget.CardView;**

**import com.google.firebase.database.DatabaseReference;**

**import com.google.firebase.database.FirebaseDatabase;**

**import com.google.firebase.storage.FirebaseStorage;**

**import com.google.firebase.storage.StorageReference;**

**import com.google.firebase.storage.UploadTask;**

**import java.io.ByteArrayOutputStream;**

**import java.io.IOException;**

**import java.util.Calendar;**

**public class UploadNotice extends AppCompatActivity {**

**private CardViewaddImage;**

**private final int REQ=1;**

**private Bitmap bitmap;**

**private ImageViewnoticeImageView;**

**private Button uploadNoticeButton;**

**private DatabaseReference reference;**

**private StorageReferencestorageReference;**

**private EditTextnoticeTitle;**

**String downloadUrl= "";**

**private ProgressDialog pd;**

**@Override**

**protected void onCreate(Bundle savedInstanceState) {**

**super.onCreate(savedInstanceState);**

**setContentView(R.layout.activity\_upload\_notice);**

**addImage = findViewById(R.id.addImage);**

**noticeImageView = findViewById(R.id.noticeImageView);**

**noticeTitle = findViewById(R.id.noticeTitile);**

**uploadNoticeButton = findViewById(R.id.uploadNoticeBtn);**

**reference = FirebaseDatabase.getInstance().getReference();**

**storageReference = FirebaseStorage.getInstance().getReference();**

**pd = new ProgressDialog(this);**

**addImage.setOnClickListener(view ->openGallery());**

**uploadNoticeButton.setOnClickListener(v -> {**

**if (noticeTitle.getText().toString().isEmpty()){**

**noticeTitle.setError("Empty");**

**noticeTitle.requestFocus();**

**}else if (bitmap == null){**

**uploadData();**

**}else {**

**uploadImage();**

**}**

**});**

**}**

**private void uploadImage() {**

**pd.setTitle("Please wait");**

**pd.setMessage("Uploading");**

**pd.show();**

**ByteArrayOutputStreambyteArrayOutputStream = new ByteArrayOutputStream();**

**bitmap.compress(Bitmap.CompressFormat.JPEG,50,byteArrayOutputStream);**

**byte[] finalImg = byteArrayOutputStream.toByteArray();**

**final StorageReferencefilePath;**

**filePath = storageReference.child("Notice").child(finalImg+"jpg");**

**final UploadTaskuploadTask = filePath.putBytes(finalImg);**

**uploadTask.addOnCompleteListener(UploadNotice.this, task -> {**

**if (task.isSuccessful()){**

**uploadTask.addOnSuccessListener(taskSnapshot ->filePath.getDownloadUrl().addOnSuccessListener(uri -> {**

**downloadUrl = String.valueOf(uri);**

**uploadData();**

**}));**

**}else {**

**pd.dismiss();**

**Toast.makeText(UploadNotice.this, "Something went Wrong", Toast.LENGTH\_SHORT).show();**

**}**

**});**

**}**

**private void uploadData() {**

**reference = reference.child("Notice");**

**final String uniqueKey = reference.push().getKey();**

**String title = noticeTitle.getText().toString();**

**Calendar calFromDate = Calendar.getInstance();**

**SimpleDateFormatcurrentDate = new SimpleDateFormat("dd-MM-yy");**

**String date = currentDate.format(calFromDate.getTime());**

**Calendar calFromTime = Calendar.getInstance();**

**SimpleDateFormatcurrentTime = new SimpleDateFormat("hh:mm a");**

**String time= currentTime.format(calFromTime.getTime());**

**NoticeDatanoticeData = new NoticeData(title,downloadUrl,date,time,uniqueKey);**

**reference.child(uniqueKey).setValue(noticeData).addOnSuccessListener(unused -> {**

**pd.dismiss();**

**Toast.makeText(UploadNotice.this, "Notice Uploaded", Toast.LENGTH\_SHORT).show();**

**}).addOnFailureListener(e -> {**

**pd.dismiss();**

**Toast.makeText(UploadNotice.this, "Something went wrong", Toast.LENGTH\_SHORT).show();**

**});**

**}**

**private void openGallery() {**

**Intent pickImage = new Intent(Intent.ACTION\_PICK, MediaStore.Images.Media.EXTERNAL\_CONTENT\_URI);**

**startActivityForResult(pickImage,REQ);**

**}**

**@Override**

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

**super.onActivityResult(requestCode, resultCode, data);**

**if (requestCode == REQ &&resultCode==RESULT\_OK){**

**Uri uri = data.getData();**

**try {**

**bitmap = MediaStore.Images.Media.getBitmap(getContentResolver(),uri);**

**} catch (IOException e) {**

**e.printStackTrace();**

**}**

**noticeImageView.setImageBitmap(bitmap);**

**}**

**}**

**}**

**Upload Gallery**

**Xml code for Upload Gallery**

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

<ScrollViewxmlns: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:padding="16dp"

tools:context=".UploadImage">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical">

<com.google.android.material.card.MaterialCardView

android:layout\_width="130dp"

android:layout\_height="150dp"

android:layout\_margin="10dp"

android:layout\_gravity="center"

android:id="@+id/addGalleryImage">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:background="@drawable/circle\_purple"

android:orientation="vertical"

android:gravity="center">

<ImageView

android:layout\_width="64dp"

android:layout\_height="64dp"

android:background="@drawable/circle\_purple"

android:src="@drawable/ic\_gallery"

android:padding="15dp"/>

<View

android:layout\_width="match\_parent"

android:layout\_height="1dp"

android:background="@color/black"

android:layout\_marginTop="10dp"/>

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textColor="@color/black"

android:text="Select Image"

android:textStyle="bold"

android:padding="5dp"

android:layout\_marginTop="10dp"/>

</LinearLayout>

</com.google.android.material.card.MaterialCardView>

<Spinner

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:id="@+id/image\_category"

android:spinnerMode="dialog"

android:gravity="center"

android:background="@android:drawable/btn\_dropdown"

android:layout\_marginVertical="16dp"/>

<com.google.android.material.button.MaterialButton

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Upload Image"

android:layout\_marginTop="16dp"

android:textAllCaps="false"

android:id="@+id/uploadImageBtn"/>

<com.google.android.material.card.MaterialCardView

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"/>

<ImageView

android:layout\_width="match\_parent"

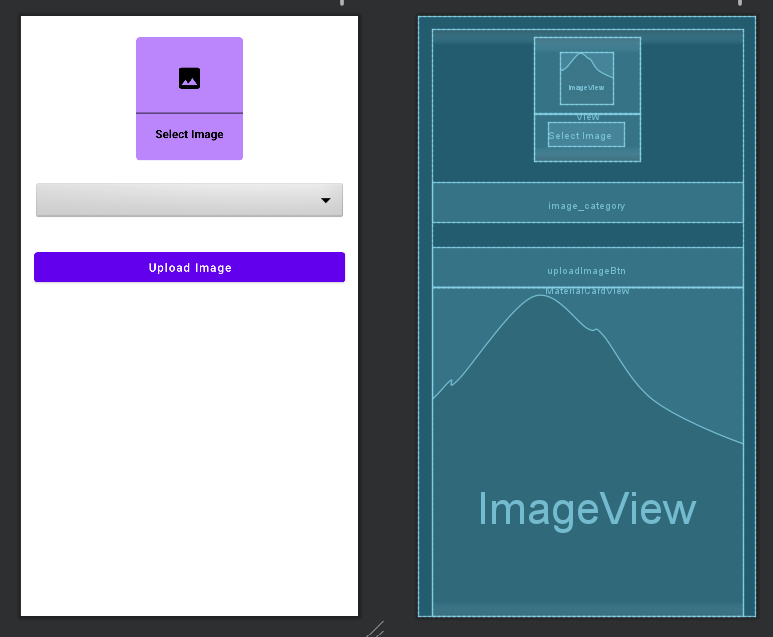
android:layout\_height="400dp"

android:scaleType="center"

android:id="@+id/galleryImageView"/>

</LinearLayout>

</ScrollView>



**Java Code of upload gallery**

package com.example.govtpolytechnicambalaadmin;

import android.app.ProgressDialog;

import android.content.Intent;

import android.graphics.Bitmap;

import android.net.Uri;

import android.os.Bundle;

import android.provider.MediaStore;

import android.view.View;

import android.widget.AdapterView;

import android.widget.ArrayAdapter;

import android.widget.Button;

import android.widget.ImageView;

import android.widget.Spinner;

import android.widget.Toast;

import androidx.annotation.NonNull;

import androidx.annotation.Nullable;

import androidx.appcompat.app.AppCompatActivity;

import androidx.cardview.widget.CardView;

import com.google.android.gms.tasks.OnFailureListener;

import com.google.android.gms.tasks.OnSuccessListener;

import com.google.firebase.database.DatabaseReference;

import com.google.firebase.database.FirebaseDatabase;

import com.google.firebase.storage.FirebaseStorage;

import com.google.firebase.storage.StorageReference;

import com.google.firebase.storage.UploadTask;

import java.io.ByteArrayOutputStream;

import java.io.IOException;

public class UploadImage extends AppCompatActivity {

private Spinner imageCategory;

private CardViewselectImage;

private Button uploadImage;

private ImageViewgalleryImageView;

private String category;

private final int REQ = 1;

private Bitmap bitmap;

private ProgressDialog pd;

private DatabaseReference reference;

private StorageReferencestorageReference;

String downloadUrl;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_upload\_image);

selectImage = findViewById(R.id.addGalleryImage);

imageCategory = findViewById(R.id.image\_category);

uploadImage = findViewById(R.id.uploadImageBtn);

galleryImageView = findViewById(R.id.galleryImageView);

pd = new ProgressDialog(this);

storageReference = FirebaseStorage.getInstance().getReference().child("Gallery");

reference = FirebaseDatabase.getInstance().getReference().child("Gallery");

String[] items= new String[]{"Select Category","IndependenceDay","Tree Plantation", "NCC","Sports","Study","Other Event"};

imageCategory.setAdapter(new ArrayAdapter<String>(this, android.R.layout.simple\_spinner\_dropdown\_item,items));

imageCategory.setOnItemSelectedListener(new AdapterView.OnItemSelectedListener() {

@Override

public void onItemSelected(AdapterView<?> parent, View view, int position, long id) {

category = imageCategory.getSelectedItem().toString();

}

@Override

public void onNothingSelected(AdapterView<?> parent) {

}

});

selectImage.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

openGallery();

}

});

uploadImage.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

if (bitmap==null){

Toast.makeText(UploadImage.this, "Please Select Image", Toast.LENGTH\_SHORT).show();

}else if (category.equals("Select Category")){

Toast.makeText(UploadImage.this, "Please Select Image Category", Toast.LENGTH\_SHORT).show();

}else{

pd.setTitle("Please wait");

pd.setMessage("Uploading.....");

pd.show();

uploadImage();

}

}

});

}

private void uploadImage() {

pd.setTitle("Please wait");

pd.setMessage("Uploading");

pd.show();

ByteArrayOutputStreambyteArrayOutputStream = new ByteArrayOutputStream();

bitmap.compress(Bitmap.CompressFormat.JPEG,50,byteArrayOutputStream);

byte[] finalImg = byteArrayOutputStream.toByteArray();

final StorageReferencefilePath;

filePath = storageReference.child(finalImg+"jpg");

final UploadTaskuploadTask = filePath.putBytes(finalImg);

uploadTask.addOnCompleteListener(UploadImage.this, task -> {

if (task.isSuccessful()){

uploadTask.addOnSuccessListener(taskSnapshot ->filePath.getDownloadUrl().addOnSuccessListener(uri -> {

downloadUrl = String.valueOf(uri);

uploadData();

}));

}else {

pd.dismiss();

Toast.makeText(UploadImage.this, "Something went Wrong", Toast.LENGTH\_SHORT).show();

}

});

}

private void uploadData() {

reference = reference.child(category);

final String uniqueKey = reference.push().getKey();

reference.child(uniqueKey).setValue(downloadUrl).addOnSuccessListener(new OnSuccessListener<Void>() {

@Override

public void onSuccess(Void unused) {

pd.dismiss();

Toast.makeText(UploadImage.this, "Image Uploaded", Toast.LENGTH\_SHORT).show();

}

}).addOnFailureListener(new OnFailureListener() {

@Override

public void onFailure(@NonNull Exception e) {

pd.dismiss();

Toast.makeText(UploadImage.this, "Something went wrong", Toast.LENGTH\_SHORT).show();

}

});

}

private void openGallery() {

Intent pickImage = new Intent(Intent.ACTION\_PICK, MediaStore.Images.Media.EXTERNAL\_CONTENT\_URI);

startActivityForResult(pickImage,REQ);

}

@Override

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

super.onActivityResult(requestCode, resultCode, data);

if (requestCode == REQ &&resultCode==RESULT\_OK){

Uri uri = data.getData();

try {

bitmap = MediaStore.Images.Media.getBitmap(getContentResolver(),uri);

} catch (IOException e) {

e.printStackTrace();

}

galleryImageView.setImageBitmap(bitmap);

}

}

}

**Upload E-Book**

**Xml code of upload gallery**

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

<ScrollView

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

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:padding="16dp"

tools:context=".UploadEbook">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="vertical">

<com.google.android.material.card.MaterialCardView

android:layout\_width="130dp"

android:layout\_height="150dp"

android:layout\_margin="10dp"

android:id="@+id/addEbook"

android:elevation="5dp"

android:layout\_gravity="center">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

android:background="@drawable/circle\_pink"

android:gravity="center">

<ImageView

android:layout\_width="64dp"

android:layout\_height="64dp"

android:background="@drawable/circle\_pink"

android:src="@drawable/ic\_ebook"

android:padding="15dp"/>

<View

android:layout\_width="match\_parent"

android:layout\_height="1dp"

android:background="@color/black"

android:layout\_marginTop="10dp"/>

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textColor="@color/black"

android:text="Select E-Book Pdf"

android:textStyle="bold"

android:padding="5dp"

android:layout\_marginTop="10dp"/>

</LinearLayout>

</com.google.android.material.card.MaterialCardView>

<TextView

android:id="@+id/ebookTextView"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="No Selected File"

android:layout\_gravity="center"

android:textSize="16sp"/>

/>

<com.google.android.material.textfield.TextInputLayout

style="@style/Widget.MaterialComponents.TextInputLayout.OutlinedBox"

android:layout\_width="match\_parent"

android:layout\_marginTop="16dp"

android:layout\_height="match\_parent">

<com.google.android.material.textfield.TextInputEditText

android:id="@+id/ebookTitile"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Ebook Title"/>

</com.google.android.material.textfield.TextInputLayout>

<com.google.android.material.button.MaterialButton

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Upload E-Book"

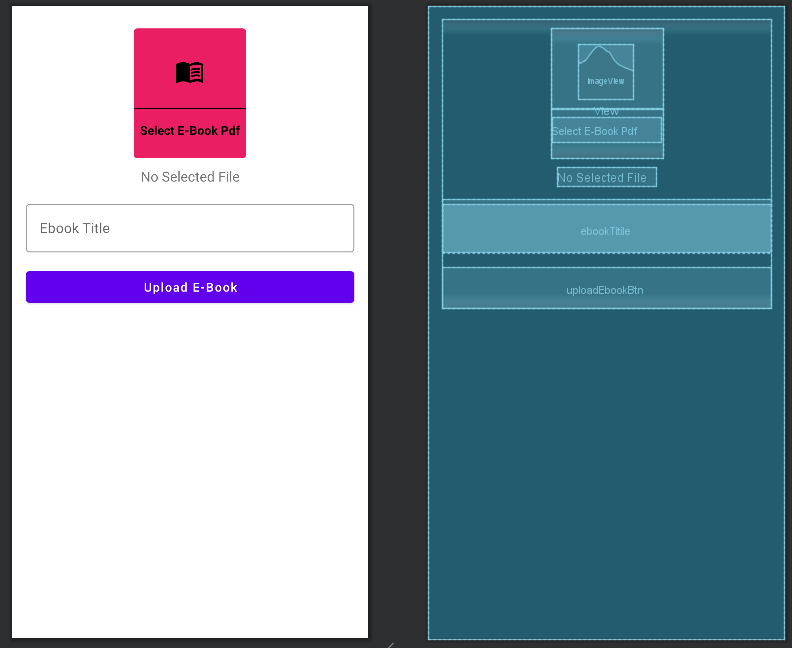
android:layout\_marginTop="16dp"

android:textAllCaps="false"

android:id="@+id/uploadEbookBtn"/>

</LinearLayout>

</ScrollView>



**Java coding of upload ebook**

package com.example.govtpolytechnicambalaadmin;

import androidx.annotation.NonNull;

import androidx.annotation.Nullable;

import androidx.appcompat.app.AppCompatActivity;

import androidx.cardview.widget.CardView;

import android.app.ProgressDialog;

import android.content.Intent;

import android.database.Cursor;

import android.net.Uri;

import android.os.Bundle;

import android.provider.OpenableColumns;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.TextView;

import android.widget.Toast;

import com.google.android.gms.tasks.OnCompleteListener;

import com.google.android.gms.tasks.OnFailureListener;

import com.google.android.gms.tasks.OnSuccessListener;

import com.google.android.gms.tasks.Task;

import com.google.firebase.database.DatabaseReference;

import com.google.firebase.database.FirebaseDatabase;

import com.google.firebase.storage.FirebaseStorage;

import com.google.firebase.storage.StorageReference;

import com.google.firebase.storage.UploadTask;

import java.io.File;

import java.io.IOException;

import java.util.HashMap;

public class UploadEbook extends AppCompatActivity {

private CardViewaddEbook;

private EditTextebookTitle;

private Button uploadEbookBtn;

private final int REQ = 1;

private TextViewebookTextView;

private Uri ebookData;

private DatabaseReferencedatabaseReference;

private StorageReferencestorageReference;

String downloadUrl = "";

private ProgressDialog pd;

private String ebookName ,title;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_upload\_ebook);

databaseReference = FirebaseDatabase.getInstance().getReference();

storageReference = FirebaseStorage.getInstance().getReference();

addEbook = findViewById(R.id.addEbook);

ebookTitle = findViewById(R.id.ebookTitile);

uploadEbookBtn = findViewById(R.id.uploadEbookBtn);

pd= new ProgressDialog(this);

ebookTextView = findViewById(R.id.ebookTextView);

addEbook.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

openGallery();

}

});

uploadEbookBtn.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

title = ebookTitle.getText().toString();

if(title.isEmpty()){

ebookTitle.setError("Empty");

ebookTitle.requestFocus();

}else if(ebookData==null){

Toast.makeText(UploadEbook.this, "Please upload pdf", Toast.LENGTH\_SHORT).show();

}else {

uploadEbook();

}

}

});

}

private void uploadEbook(){

pd.setTitle("Please wait");

pd.setMessage("Uploading");

pd.show();

StorageReference reference = storageReference.child("pdf/"+ebookName+"-"+System.currentTimeMillis()+"-pdf");

reference.putFile(ebookData)

.addOnSuccessListener(new OnSuccessListener<UploadTask.TaskSnapshot>() {

@Override

public void onSuccess(UploadTask.TaskSnapshottaskSnapshot) {

Task<Uri>uriTask = taskSnapshot.getStorage().getDownloadUrl();

while (!uriTask.isComplete());

Uri uri = uriTask.getResult();

uploadData(String.valueOf(uri));

}

}).addOnFailureListener(new OnFailureListener() {

@Override

public void onFailure(@NonNull Exception e) {

Toast.makeText(UploadEbook.this, "Something went wrong", Toast.LENGTH\_SHORT).show();

}

});

}

private void uploadData(String downloadUrl) {

String uniqueKey = databaseReference.child("ebook").push().getKey();

HashMap data = new HashMap();

data.put("ebookTitle",title);

data.put("ebookUrl", downloadUrl);

databaseReference.child("ebook").child(uniqueKey).setValue(data).addOnCompleteListener(task -> {

pd.dismiss();

Toast.makeText(UploadEbook.this, "Ebook uploaded sucessffully", Toast.LENGTH\_SHORT).show();

}).addOnFailureListener(new OnFailureListener() {

@Override

public void onFailure(@NonNull Exception e) {

pd.dismiss();

Toast.makeText(UploadEbook.this, "Failed To Upload Ebook" ,Toast.LENGTH\_SHORT).show();

}

});

}

private void openGallery() {

Intent intent = new Intent();

intent.setType("pdf/docs/ppt");

intent.setAction(Intent.ACTION\_GET\_CONTENT);

startActivityForResult(Intent.createChooser(intent,"Select Pdf File"),REQ);

}

@Override

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

super.onActivityResult(requestCode, resultCode, data);

if (requestCode == REQ &&resultCode == RESULT\_OK) {

ebookData = data.getData();

if (ebookData.toString().startsWith("content://")) {

Cursor cursor = null;

try {

cursor = UploadEbook.this.getContentResolver().query(ebookData, null, null, null, null);

if (cursor != null &&cursor.moveToFirst()) {

ebookName = cursor.getString(cursor.getColumnIndexOrThrow(OpenableColumns.DISPLAY\_NAME));

}

} catch (IllegalArgumentException e) {

e.printStackTrace();

}

} else if (ebookData.toString().startsWith("file://")) {

ebookName = new File(ebookData.toString()).getName();

}

ebookTextView.setText(ebookName);

}

}

}

**Upload Faculty**

**Xml Code of upload Faculty**

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

<androidx.coordinatorlayout.widget.CoordinatorLayoutxmlns: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=".UpdateFaculty">

<com.google.android.material.floatingactionbutton.FloatingActionButton

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/fab"

style="@style/Widget.Design.FloatingActionButton"

android:layout\_gravity="bottom|end"

android:src="@drawable/ic\_person"

android:elevation="5dp"

android:layout\_margin="16dp"/>

<androidx.core.widget.NestedScrollView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical">

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Computer Science"

android:gravity="center"

android:textColor="@color/black"

android:textSize="22sp"

android:layout\_marginTop="16dp"/>

<View

android:layout\_width="match\_parent"

android:layout\_height="1dp"

android:layout\_marginVertical="8dp"

android:background="#c1c1c1"/>

<androidx.recyclerview.widget.RecyclerView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:id="@+id/csDepartment"

android:visibility="gone"

android:nestedScrollingEnabled="false"/>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="vertical"

android:id="@+id/csNoData">

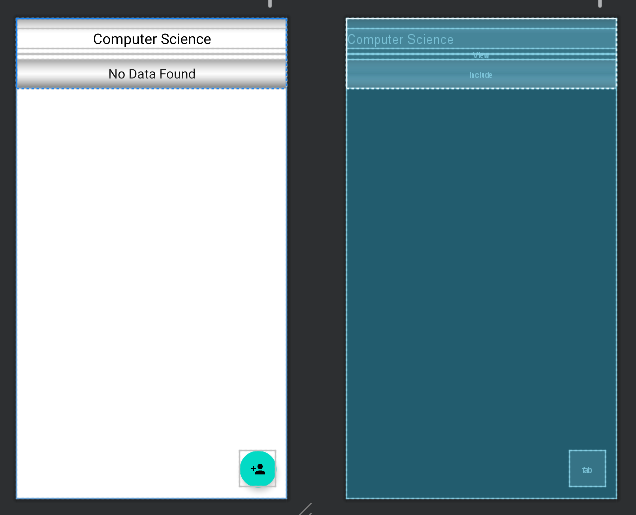
<include layout="@layout/no\_data\_found"/>

</LinearLayout>

</LinearLayout>

</androidx.core.widget.NestedScrollView>

</androidx.coordinatorlayout.widget.CoordinatorLayout>



**Xml code of No data Found**

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

<com.google.android.material.card.MaterialCardViewxmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:id="@+id/noDataFound">

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="No Data Found"

android:textSize="20sp"

android:textColor="@color/black"

android:layout\_margin="8dp"

android:gravity="center"/>

</com.google.android.material.card.MaterialCardView>

Java code of upload faculty

package com.example.govtpolytechnicambalaadmin;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.LinearLayout;

import android.widget.Toast;

import androidx.annotation.NonNull;

import androidx.appcompat.app.AppCompatActivity;

import androidx.recyclerview.widget.LinearLayoutManager;

import androidx.recyclerview.widget.RecyclerView;

import com.google.android.material.floatingactionbutton.FloatingActionButton;

import com.google.firebase.database.DataSnapshot;

import com.google.firebase.database.DatabaseError;

import com.google.firebase.database.DatabaseReference;

import com.google.firebase.database.FirebaseDatabase;

import com.google.firebase.database.ValueEventListener;

import java.util.ArrayList;

import java.util.List;

public class UpdateFaculty extends AppCompatActivity {

private RecyclerViewcsDepartment;

private LinearLayoutcsNoData;

private List<TeacherData> list1;

FloatingActionButton fab;

private DatabaseReferencereference ,dbRef;

private TeacherAdapter adapter;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_update\_faculty);

fab = findViewById(R.id.fab);

fab.setOnClickListener(v ->startActivity(new Intent(UpdateFaculty.this,AddTeacher.class)));

csDepartment = findViewById( R.id.csDepartment );

csNoData = findViewById( R.id.csNoData );

reference = FirebaseDatabase.getInstance ().getReference ().child ( "teachers" );

csDepartment();

}

private void csDepartment() {

dbRef = reference.child ( "Computer Branch" );

dbRef.addValueEventListener( newValueEventListener () {

@Override

public void onDataChange(@NonNull DataSnapshotdataSnapshot) {

list1 = new ArrayList<> ();

if (!dataSnapshot.exists ()){

csNoData.setVisibility( View.VISIBLE );

csDepartment.setVisibility( View.GONE );

}else {

csNoData.setVisibility( View.GONE );

csDepartment.setVisibility( View.VISIBLE );

for (DataSnapshot snapshot: dataSnapshot.getChildren ()){

TeacherData data = snapshot.getValue (TeacherData.class);

list1.add ( data );

}

csDepartment.setHasFixedSize( true );

csDepartment.setLayoutManager( newLinearLayoutManager ( UpdateFaculty.this ) );

adapter = new TeacherAdapter( list1,UpdateFaculty.this,"Computer Branch" );

csDepartment.setAdapter( adapter );

}

}

@Override

public void onCancelled(@NonNull DatabaseErrordatabaseError) {

Toast.makeText( UpdateFaculty.this,databaseError.getMessage (), Toast.LENGTH\_SHORT ).show ();

}

} );

}

}

**Add Teacher**

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

<ScrollViewxmlns: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=".AddTeacher">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:padding="16dp"

android:orientation="vertical">

<de.hdodenhof.circleimageview.CircleImageView

android:layout\_width="120dp"

android:layout\_height="120dp"

android:src="@drawable/man"

android:layout\_gravity="center"

android:layout\_marginTop="36dp"

android:id="@+id/addTeacherImage"/>

<com.google.android.material.textfield.TextInputLayout

style="@style/Widget.MaterialComponents.TextInputLayout.OutlinedBox"

android:layout\_width="match\_parent"

android:layout\_marginTop="16dp"

android:layout\_height="match\_parent">

<com.google.android.material.textfield.TextInputEditText

android:id="@+id/addTeacherName"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:inputType="textPersonName"

android:hint="Teacher Name"/>

</com.google.android.material.textfield.TextInputLayout>

<com.google.android.material.textfield.TextInputLayout

style="@style/Widget.MaterialComponents.TextInputLayout.OutlinedBox"

android:layout\_width="match\_parent"

android:layout\_marginTop="16dp"

android:layout\_height="match\_parent">

<com.google.android.material.textfield.TextInputEditText

android:id="@+id/addTeacherPost"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:inputType="text"

android:hint="Teacher Post"/>

</com.google.android.material.textfield.TextInputLayout>

<com.google.android.material.textfield.TextInputLayout

style="@style/Widget.MaterialComponents.TextInputLayout.OutlinedBox"

android:layout\_width="match\_parent"

android:layout\_marginTop="16dp"

android:layout\_height="match\_parent">

<com.google.android.material.textfield.TextInputEditText

android:id="@+id/addTeacherEmail"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:inputType="textEmailAddress"

android:hint="Teacher Email"/>

</com.google.android.material.textfield.TextInputLayout>

<Spinner

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:id="@+id/addTeacherCategory"

android:spinnerMode="dialog"

android:gravity="center"

android:background="@android:drawable/btn\_dropdown"

android:layout\_marginVertical="16dp"/>

<com.google.android.material.button.MaterialButton

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Add Teacher"

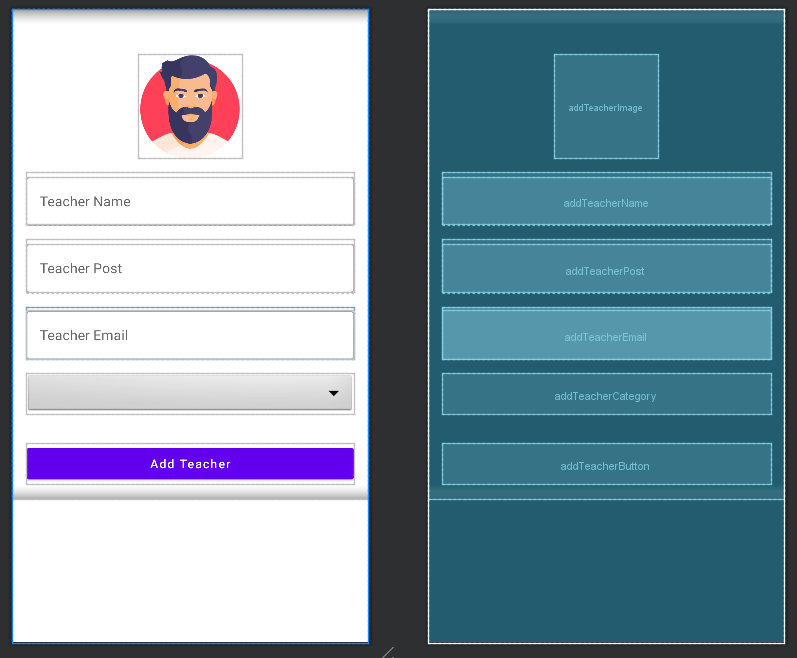
android:layout\_marginTop="16dp"

android:textAllCaps="false"

android:id="@+id/addTeacherButton"/>

</LinearLayout>

</ScrollView>



**Add Teacher java**

package com.example.govtpolytechnicambalaadmin;

import androidx.annotation.Nullable;

import androidx.appcompat.app.AppCompatActivity;

import android.app.ProgressDialog;

import android.content.Intent;

import android.graphics.Bitmap;

import android.icu.text.SimpleDateFormat;

import android.net.Uri;

import android.os.Bundle;

import android.provider.MediaStore;

import android.view.View;

import android.widget.AdapterView;

import android.widget.ArrayAdapter;

import android.widget.Button;

import android.widget.EditText;

import android.widget.ImageView;

import android.widget.Spinner;

import android.widget.Toast;

import com.google.firebase.database.DatabaseReference;

import com.google.firebase.database.FirebaseDatabase;

import com.google.firebase.storage.FirebaseStorage;

import com.google.firebase.storage.StorageReference;

import com.google.firebase.storage.UploadTask;

import java.io.ByteArrayOutputStream;

import java.io.IOException;

import java.util.Calendar;

public class AddTeacher extends AppCompatActivity {

private ImageViewaddTeacherImage;

private EditTextaddTeacherName ,addTeacherEmail , addTeacherPost ;

private Button addTeacherBtn;

private Spinner addTeacherCategory;

private final int REQ=1;

private String category;

private Bitmap bitmap = null;

private String name,email,post,downloadUrl="";

private ProgressDialog pd;

private StorageReferencestorageReference;

private DatabaseReference reference;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_add\_teacher);

addTeacherName = findViewById(R.id.addTeacherName);

addTeacherEmail = findViewById(R.id.addTeacherEmail);

addTeacherPost= findViewById(R.id.addTeacherPost);

addTeacherImage = findViewById(R.id.addTeacherImage);

addTeacherBtn = findViewById(R.id.addTeacherButton);

addTeacherCategory = findViewById(R.id.addTeacherCategory);

pd = new ProgressDialog(this);

storageReference = FirebaseStorage.getInstance().getReference();

reference = FirebaseDatabase.getInstance().getReference().child("teachers");

String[] items= new String[]{"Select Category","AppliedScience","Computer Branch", "Mechanical","Electronics","Electrical","Plastic","Civil","Architecture","Automobile"};

addTeacherCategory.setAdapter(new ArrayAdapter<String>(this, android.R.layout.simple\_spinner\_dropdown\_item,items));

addTeacherCategory.setOnItemSelectedListener(new AdapterView.OnItemSelectedListener() {

@Override

public void onItemSelected(AdapterView<?> parent, View view, int position, long id) {

category = addTeacherCategory.getSelectedItem().toString();

}

@Override

public void onNothingSelected(AdapterView<?> parent) {

}

});

addTeacherImage.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

openGallery();

}

});

addTeacherBtn.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

checkValidation();

}

});

}

private void checkValidation() {

name = addTeacherName.getText().toString();

email = addTeacherEmail.getText().toString();

post = addTeacherPost.getText().toString();

if (name.isEmpty()){

addTeacherName.setError("Empty");

addTeacherName.requestFocus();

}else if (email.isEmpty()){

addTeacherEmail.setError("Empty");

addTeacherEmail.requestFocus();

}else if (post.isEmpty()){

addTeacherPost.setError("Empty");

addTeacherPost.requestFocus();

}else if (category.equals("Select Category")){

Toast.makeText(this, "Please Select Category", Toast.LENGTH\_SHORT).show();

}else if (bitmap==null){

insertData();

}else{

pd.setTitle("Please Wait");

pd.setMessage("Uploading");

pd.show();

uploadImage();

}

}

private void uploadImage() {

pd.setTitle("Please wait");

pd.setMessage("Uploading");

pd.show();

ByteArrayOutputStreambyteArrayOutputStream = new ByteArrayOutputStream();

bitmap.compress(Bitmap.CompressFormat.JPEG,50,byteArrayOutputStream);

byte[] finalImg = byteArrayOutputStream.toByteArray();

final StorageReferencefilePath;

filePath = storageReference.child("teachers").child(finalImg+"jpg");

final UploadTaskuploadTask = filePath.putBytes(finalImg);

uploadTask.addOnCompleteListener(AddTeacher.this, task -> {

if (task.isSuccessful()){

uploadTask.addOnSuccessListener(taskSnapshot ->filePath.getDownloadUrl().addOnSuccessListener(uri -> {

downloadUrl = String.valueOf(uri);

insertData();

}));

}else {

pd.dismiss();

Toast.makeText(AddTeacher.this, "Something went Wrong", Toast.LENGTH\_SHORT).show();

}

});

}

private void insertData() {

reference = reference.child(category);

final String uniqueKey = reference.push().getKey();

TeacherDatateacherData = new TeacherData(name,email,post,downloadUrl,uniqueKey);

reference.child(uniqueKey).setValue(teacherData).addOnSuccessListener(unused -> {

pd.dismiss();

Toast.makeText(AddTeacher.this, "Teacher Added", Toast.LENGTH\_SHORT).show();

}).addOnFailureListener(e -> {

pd.dismiss();

Toast.makeText(AddTeacher.this, "Something went wrong", Toast.LENGTH\_SHORT).show();

});

}

private void openGallery() {

Intent pickImage = new Intent(Intent.ACTION\_PICK, MediaStore.Images.Media.EXTERNAL\_CONTENT\_URI);

startActivityForResult(pickImage,REQ);

}

@Override

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

super.onActivityResult(requestCode, resultCode, data);

if (requestCode == REQ &&resultCode==RESULT\_OK){

Uri uri = data.getData();

try {

bitmap = MediaStore.Images.Media.getBitmap(getContentResolver(),uri);

} catch (IOException e) {

e.printStackTrace();

}

addTeacherImage.setImageBitmap(bitmap);

}

}

}

Conclusion

We created a application for our college. With this application teachers teaches students more about other studies and teaches students more easily.

This application scope is so high. Because today's generation are mostly smart kids study online so this application is a Good option for that kids who wants to study online.

**Purpose of the project**

In easy words to say of this project purpose is to provide more facilities to all students and also provides more about studies. With this application students can do our studies easily and also takes more advantages of digital studies.

In the end we can say this project is study purposes for developing the student’s education