Voting System

Semester project

Session 2019-2023

BS in Software Engineering



Department of Software Engineering

Faculty of Computer Science & Information Technology

The Superior College, Lahore

FALL 2021

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Type (Nature of project) | | | [ ✓ ] **D**evelopment [ ] **R**esearch [ ] **R**&**D** | | |
| Area of specialization | | | Mobile Application in Android | | |
| **Project Group Members** | | | | | |
| Sr.# | Reg. # | Student Name | | Email ID | \*Signature |
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| (ii) |  |  | |  |  |
| (iii) |  |  | |  |  |

\*The candidates confirm that the work submitted is their own and appropriate credit has been given where reference has been made to work of others

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# Chapter 1

# Introduction

## Voting system is a mobile application that allows a person to register, login and then create, view, update and delete their created vote listings. A student user can vote in created listing and they can create, delete, update their own listing. A Faculty user can vote as well in created listing and they can create, delete, update their own as well as other’s listings too. A Faculty user can also change the role of different user to be student or to be faculty. A user can also set their own profile picture which they can select from gallery.

# Chapter 2

# Tool & Technology

## I’ve used:

## Android Studio for my overall project development

## Firebase Realtime database for storing info about users as well as Election listings

## Firebase Authentication of logging in user using email & password.

## Firebase Storage to store pictures of different users as well as election related pictures.

# Chapter 3

# Implementation Code

## Activity\_add\_new\_election.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:focusable="true"  
 android:focusableInTouchMode="true"  
 tools:context=".AddNewElection">  
  
 <androidx.constraintlayout.widget.ConstraintLayout  
 android:id="@+id/constraintLayout5"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginVertical="20dp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent">  
  
 <ImageView  
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 android:layout\_width="40dp"  
 android:layout\_height="40dp"  
 android:src="@drawable/go\_back"  
 android:layout\_marginHorizontal="20dp"  
 android:backgroundTint="@color/white"  
 android:textSize="32dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <EditText  
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 android:width="260dp"  
 android:ems="10"  
 android:hint="TITLE / ELECTION FOR"  
 android:backgroundTint="@color/white"  
 android:textColorHint="@color/red"  
 android:inputType="textPersonName"  
 android:textAlignment="center"  
 android:textSize="22dp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.325"  
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 app:layout\_constraintTop\_toTopOf="parent" />  
  
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 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="40dp"  
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 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/constraintLayout5">  
  
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 android:layout\_height="wrap\_content"  
 android:layout\_marginHorizontal="30dp"  
 android:textColor="@color/red"  
 android:text="Person 1"  
 android:textSize="32dp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.508" />  
  
 <TextView  
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 android:layout\_marginHorizontal="30dp"  
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 android:text="Person 2"  
 android:textSize="32dp"  
 android:textStyle="bold"  
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 app:layout\_constraintEnd\_toEndOf="parent"  
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 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/constraintLayout7">  
  
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 android:backgroundTint="@color/red"  
 android:hint="Full Name"  
 android:inputType="textPersonName"  
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 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
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 android:textColorHint="@color/lightGreen"  
 android:backgroundTint="@color/lightGreen"  
 android:inputType="textPersonName"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toEndOf="@+id/name1"  
 app:layout\_constraintTop\_toTopOf="parent" />  
 </androidx.constraintlayout.widget.ConstraintLayout>  
  
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 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="16dp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/constraintLayout6">  
  
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 android:layout\_marginHorizontal="20dp"  
 android:ems="10"  
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 android:textColorHint="@color/lightRed"  
 android:backgroundTint="@color/red"  
 android:inputType="textEmailAddress"  
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 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
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 android:layout\_width="150dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginHorizontal="20dp"  
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 android:inputType="textPersonName"  
 android:textColorHint="@color/lightGreen"  
 android:backgroundTint="@color/lightGreen"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
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 app:layout\_constraintTop\_toTopOf="parent" />  
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 app:layout\_constraintEnd\_toEndOf="parent"  
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 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/constraintLayout8">  
  
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 android:textColorHint="@color/lightRed"  
 android:backgroundTint="@color/red"  
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 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
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 android:layout\_marginHorizontal="20dp"  
 android:ems="10"  
 android:hint="RollNumber"  
 android:inputType="text"  
 android:textColorHint="@color/lightGreen"  
 android:backgroundTint="@color/lightGreen"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
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 app:layout\_constraintTop\_toTopOf="parent" />  
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 <androidx.constraintlayout.widget.ConstraintLayout  
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 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="16dp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/constraintLayout9">  
  
 <ImageView  
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 android:layout\_width="150dp"  
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 android:src="@drawable/uploadpicred"  
 android:layout\_marginHorizontal="20dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <ImageView  
 android:id="@+id/pic2"  
 android:layout\_width="150dp"  
 android:layout\_height="100dp"  
 android:src="@drawable/uploadpicgreen"  
 android:layout\_marginHorizontal="20dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toEndOf="@+id/pic1"  
 app:layout\_constraintTop\_toTopOf="parent" />  
 </androidx.constraintlayout.widget.ConstraintLayout>  
  
 <RadioButton  
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 android:layout\_width="wrap\_content"  
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 android:layout\_marginStart="52dp"  
 android:layout\_marginTop="16dp"  
 android:text="On-Going"  
 android:textSize="16dp"  
 android:textColor="@color/red"  
 android:buttonTint="@color/red"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/constraintLayout10" />  
  
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 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="16dp"  
 android:layout\_marginEnd="52dp"  
 android:text="Concluded"  
 android:textColor="@color/lightGreen"  
 android:textSize="16dp"  
 android:buttonTint="@color/lightGreen"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/constraintLayout10" />  
  
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 android:layout\_height="wrap\_content"  
 android:layout\_marginHorizontal="20dp"  
 android:layout\_marginTop="64dp"  
 android:backgroundTint="@color/white"  
 android:text="SUBMIT"  
 android:textColor="@color/lightGreen"  
 android:textSize="26dp"  
 android:textStyle="bold"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.6"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/constraintLayout10" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

## Activity\_change\_permission.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:focusable="true"  
 android:focusableInTouchMode="true"  
 tools:context=".Change\_Permission">  
  
  
 <androidx.constraintlayout.widget.ConstraintLayout  
 android:id="@+id/constraintLayout11"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:paddingTop="10dp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent">  
  
 <ImageView  
 android:id="@+id/go\_back"  
 android:layout\_width="40dp"  
 android:layout\_height="40dp"  
 android:layout\_marginHorizontal="20dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:srcCompat="@drawable/go\_back" />  
  
 <androidx.appcompat.widget.SearchView  
 android:id="@+id/searchView"  
 android:visibility="invisible"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="70dp"  
 android:layout\_marginRight="20dp"  
 app:iconifiedByDefault="false"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toEndOf="@+id/go\_back"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="1.0" />  
  
 </androidx.constraintlayout.widget.ConstraintLayout>  
  
 <androidx.recyclerview.widget.RecyclerView  
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 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginHorizontal="20dp"  
 android:layout\_marginBottom="20dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/constraintLayout11"  
 app:layout\_constraintVertical\_bias="0.0" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

## Activity\_check\_previous\_election.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:focusable="true"  
 android:focusableInTouchMode="true"  
 tools:context=".CheckPreviousElections">  
  
  
 <androidx.constraintlayout.widget.ConstraintLayout  
 android:id="@+id/constraintLayout11"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:paddingTop="10dp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent">  
  
 <ImageView  
 android:id="@+id/go\_back"  
 android:layout\_width="40dp"  
 android:layout\_height="40dp"  
 android:layout\_marginHorizontal="20dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:srcCompat="@drawable/go\_back" />  
  
 <androidx.appcompat.widget.SearchView  
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 android:visibility="invisible"  
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 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="70dp"  
 android:layout\_marginRight="20dp"  
 app:iconifiedByDefault="false"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toEndOf="@+id/go\_back"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="1.0" />  
  
 </androidx.constraintlayout.widget.ConstraintLayout>  
  
 <androidx.recyclerview.widget.RecyclerView  
 android:id="@+id/recyclerView"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginHorizontal="20dp"  
 android:layout\_marginBottom="20dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/constraintLayout11"  
 app:layout\_constraintVertical\_bias="0.0" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

## Activity\_current\_election.xml

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 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:focusable="true"  
 android:focusableInTouchMode="true"  
 tools:context=".CurrentElections">  
  
 <androidx.constraintlayout.widget.ConstraintLayout  
 android:id="@+id/constraintLayout11"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:paddingTop="10dp"  
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 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent">  
  
 <ImageView  
 android:id="@+id/go\_back"  
 android:layout\_width="40dp"  
 android:layout\_height="40dp"  
 android:layout\_marginHorizontal="20dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:srcCompat="@drawable/go\_back" />  
  
 <androidx.appcompat.widget.SearchView  
 android:id="@+id/searchView"  
 android:visibility="invisible"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="70dp"  
 android:layout\_marginRight="20dp"  
 app:iconifiedByDefault="false"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toEndOf="@+id/go\_back"  
 app:layout\_constraintTop\_toTopOf="parent"  
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 </androidx.constraintlayout.widget.ConstraintLayout>  
  
 <androidx.recyclerview.widget.RecyclerView  
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 android:layout\_height="wrap\_content"  
 android:layout\_marginHorizontal="20dp"  
 android:layout\_marginBottom="20dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/constraintLayout11"  
 app:layout\_constraintVertical\_bias="0.0" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

## Activity\_dashboard.xml

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 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=".Dashboard">  
  
 <androidx.constraintlayout.widget.ConstraintLayout  
 android:id="@+id/constraintLayout4"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:background="@color/darkGreen"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent">  
  
 <TextView  
 android:id="@+id/type\_of\_login"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginHorizontal="20dp"  
 android:textColor="@color/white"  
 android:text="Type"  
 android:textSize="20dp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <TextView  
 android:id="@+id/full\_name"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginHorizontal="20dp"  
 android:textColor="@color/white"  
 android:text="FullName"  
 android:textStyle="bold"  
 android:textSize="20dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toStartOf="@+id/picture"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <de.hdodenhof.circleimageview.CircleImageView  
 android:id="@+id/picture"  
 android:layout\_width="50dp"  
 android:layout\_height="50dp"  
 android:layout\_marginVertical="5dp"  
 android:layout\_marginHorizontal="20dp"  
 app:civ\_border\_color="@color/white"  
 app:civ\_border\_width="2dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 android:src="@drawable/logo"/>  
  
 </androidx.constraintlayout.widget.ConstraintLayout>  
  
 <Button  
 android:id="@+id/on\_going"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginHorizontal="20dp"  
 android:layout\_marginTop="28dp"  
 android:backgroundTint="@color/lightGreen"  
 android:textColor="@color/white"  
 android:text="On-Going Elections"  
 android:paddingVertical="20dp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/constraintLayout4" />  
  
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 android:textColor="@color/white"  
 android:layout\_marginTop="40dp"  
 android:paddingVertical="20dp"  
 android:text="Create New Election"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/on\_going" />  
  
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 android:layout\_height="wrap\_content"  
 android:layout\_marginHorizontal="20dp"  
 android:backgroundTint="@color/darkGreen"  
 android:textColor="@color/white"  
 android:layout\_marginTop="40dp"  
 android:paddingVertical="20dp"  
 android:text="Previous Created Elections"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/add\_new" />  
  
 <Button  
 android:id="@+id/del\_elec"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginHorizontal="20dp"  
 android:layout\_marginTop="40dp"  
 android:backgroundTint="@color/darkRed"  
 android:paddingVertical="20dp"  
 android:text="Delete Any Election"  
 android:textColor="@color/white"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/my\_prev" />  
  
 <Button  
 android:id="@+id/make\_faculty"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginHorizontal="20dp"  
 android:backgroundTint="@color/lightGreen"  
 android:paddingVertical="20dp"  
 android:layout\_marginTop="40dp"  
 android:text="Change Permission"  
 android:textColor="@color/white"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/del\_elec" />  
  
 <androidx.constraintlayout.widget.ConstraintLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="25dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/make\_faculty">  
  
 <Button  
 android:id="@+id/setting\_btn"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="24dp"  
 android:paddingVertical="20dp"  
 android:backgroundTint="@color/white"  
 android:textColor="@color/darkGreen"  
 android:textStyle="bold"  
 android:textSize="18dp"  
 android:text="Settings"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.0" />  
  
 <Button  
 android:id="@+id/logout\_btn"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginEnd="24dp"  
 android:paddingVertical="20dp"  
 android:backgroundTint="@color/white"  
 android:textColor="@color/darkRed"  
 android:textStyle="bold"  
 android:textSize="18dp"  
 android:text="Logout"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 </androidx.constraintlayout.widget.ConstraintLayout>  
  
</androidx.constraintlayout.widget.ConstraintLayout>

## Activity\_del\_any.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:focusable="true"  
 android:focusableInTouchMode="true"  
 tools:context=".Del\_Any">  
  
 <androidx.constraintlayout.widget.ConstraintLayout  
 android:id="@+id/constraintLayout11"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:paddingTop="10dp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent">  
  
 <ImageView  
 android:id="@+id/go\_back"  
 android:layout\_width="40dp"  
 android:layout\_height="40dp"  
 android:layout\_marginHorizontal="20dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:srcCompat="@drawable/go\_back" />  
  
 <androidx.appcompat.widget.SearchView  
 android:id="@+id/searchView"  
 android:visibility="invisible"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="70dp"  
 android:layout\_marginRight="20dp"  
 app:iconifiedByDefault="false"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toEndOf="@+id/go\_back"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="1.0" />  
  
 </androidx.constraintlayout.widget.ConstraintLayout>  
  
 <androidx.recyclerview.widget.RecyclerView  
 android:id="@+id/recyclerView"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginHorizontal="20dp"  
 android:layout\_marginBottom="20dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/constraintLayout11"  
 app:layout\_constraintVertical\_bias="0.0" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

## Activity\_election\_details.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=".Election\_details">  
  
 <androidx.constraintlayout.widget.ConstraintLayout  
 android:id="@+id/constraintLayout13"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:paddingBottom="20dp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent">  
  
 <ImageView  
 android:id="@+id/go\_back"  
 android:layout\_width="40dp"  
 android:layout\_height="40dp"  
 android:layout\_marginHorizontal="20dp"  
 android:layout\_marginVertical="20dp"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:srcCompat="@drawable/go\_back" />  
  
 <TextView  
 android:id="@+id/title\_election"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginVertical="20dp"  
 android:layout\_marginLeft="60dp"  
 android:layout\_marginRight="20dp"  
 android:padding="3dp"  
 android:text="Title For Election"  
 android:textAlignment="center"  
 android:textColor="@color/red"  
 android:textSize="26dp"  
 android:textStyle="bold"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toEndOf="@+id/go\_back"  
 app:layout\_constraintTop\_toTopOf="parent" />  
 </androidx.constraintlayout.widget.ConstraintLayout>  
  
 <androidx.constraintlayout.widget.ConstraintLayout  
 android:id="@+id/constraintLayout14"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="28dp"  
 android:paddingHorizontal="20dp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/constraintLayout13">  
  
 <de.hdodenhof.circleimageview.CircleImageView  
 android:id="@+id/image1"  
 android:layout\_width="150dp"  
 android:layout\_height="150dp"  
 android:src="@drawable/uploadpicgreen"  
 app:civ\_border\_color="@color/lightGreen"  
 app:civ\_border\_width="5dp"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <de.hdodenhof.circleimageview.CircleImageView  
 android:id="@+id/image2"  
 android:layout\_width="150dp"  
 android:layout\_height="150dp"  
 android:src="@drawable/uploadpicred"  
 app:civ\_border\_color="@color/red"  
 app:civ\_border\_width="5dp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <TextView  
 android:id="@+id/Name1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="20dp"  
 android:text="Person 1"  
 android:textColor="@color/lightGreen"  
 android:textSize="22dp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/image1" />  
  
 <TextView  
 android:id="@+id/Name2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="20dp"  
 android:text="Person 2"  
 android:textColor="@color/red"  
 android:textSize="22dp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/image2" />  
  
 </androidx.constraintlayout.widget.ConstraintLayout>  
  
 <androidx.constraintlayout.widget.ConstraintLayout  
 android:id="@+id/constraintLayout15"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginVertical="20dp"  
 android:paddingHorizontal="20dp"  
 app:layout\_constraintTop\_toBottomOf="@+id/constraintLayout14"  
 tools:layout\_editor\_absoluteX="0dp">  
  
 <TextView  
 android:id="@+id/Roll1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="BSEM-F19-000"  
 android:textColor="@color/lightGreen"  
 android:textSize="18dp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <TextView  
 android:id="@+id/Roll2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="BSEM-F19-000"  
 android:textColor="@color/red"  
 android:textSize="18dp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 </androidx.constraintlayout.widget.ConstraintLayout>  
  
 <androidx.constraintlayout.widget.ConstraintLayout  
 android:id="@+id/constraintLayout16"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginVertical="20dp"  
 android:paddingHorizontal="20dp"  
 app:layout\_constraintTop\_toBottomOf="@+id/constraintLayout15"  
 tools:layout\_editor\_absoluteX="16dp">  
  
 <TextView  
 android:id="@+id/Votes1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Votes: "  
 android:textColor="@color/lightGreen"  
 android:textSize="26dp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <TextView  
 android:id="@+id/Votes2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Votes: "  
 android:textColor="@color/red"  
 android:textSize="26dp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 </androidx.constraintlayout.widget.ConstraintLayout>  
  
 <TextView  
 android:id="@+id/textVote"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="---- VOTE ----"  
 android:textColor="@color/black"  
 android:layout\_marginVertical="20dp"  
 android:textSize="32dp"  
 android:textStyle="bold"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/constraintLayout16" />  
  
 <androidx.constraintlayout.widget.ConstraintLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginVertical="20dp"  
 android:paddingHorizontal="20dp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="1.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/textVote">  
  
 <Button  
 android:id="@+id/votesBtn1"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginRight="170dp"  
 android:backgroundTint="@color/lightGreen"  
 android:text="Name 1"  
 android:textColor="@color/white"  
 android:textSize="20dp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <Button  
 android:id="@+id/votesBtn2"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="170dp"  
 android:backgroundTint="@color/red"  
 android:text="Name 2"  
 android:textColor="@color/white"  
 android:textSize="20dp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 </androidx.constraintlayout.widget.ConstraintLayout>  
  
</androidx.constraintlayout.widget.ConstraintLayout>

## Activity\_main.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=".MainActivity">  
  
 <ImageView  
 android:id="@+id/logo"  
 android:layout\_width="match\_parent"  
 android:layout\_height="270dp"  
 android:layout\_marginTop="4dp"  
 android:src="@drawable/logo"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <com.google.android.material.textfield.TextInputLayout  
 android:id="@+id/emaillayout"  
 android:backgroundTint="@color/lightGreen"  
 app:hintTextColor="@color/red"  
 style="@style/Widget.MaterialComponents.TextInputLayout.OutlinedBox"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginHorizontal="40dp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/logo">  
  
 <com.google.android.material.textfield.TextInputEditText  
 android:id="@+id/email"  
 android:inputType="textEmailAddress"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="48dp"  
 android:hint="Email"/>  
  
 </com.google.android.material.textfield.TextInputLayout>  
  
 <com.google.android.material.textfield.TextInputLayout  
 android:id="@+id/passwordlayout"  
 style="@style/Widget.MaterialComponents.TextInputLayout.OutlinedBox"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginHorizontal="40dp"  
 android:layout\_marginTop="24dp"  
 android:hint="Password"  
 app:endIconMode="password\_toggle"  
 android:backgroundTint="@color/lightGreen"  
 app:hintTextColor="@color/red"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.533"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/emaillayout">  
  
 <com.google.android.material.textfield.TextInputEditText  
 android:id="@+id/password"  
 android:inputType="textPassword"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="48dp"/>  
  
 </com.google.android.material.textfield.TextInputLayout>  
  
 <TextView  
 android:id="@+id/to\_register"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:clickable="true"  
 android:onClick="to\_Register"  
 android:text="Register Now"  
 android:textColor="@color/darkRed"  
 android:textStyle="bold"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.855"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/passwordlayout" />  
  
 <Button  
 android:id="@+id/loginbtn"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginHorizontal="80dp"  
 android:layout\_marginTop="16dp"  
 android:backgroundTint="@color/darkGreen"  
 android:textColor="@color/white"  
 android:text="Login"  
 android:textSize="16sp"  
 android:textStyle="bold"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/to\_register" />  
  
</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"  
 tools:context=".Register">  
  
 <com.google.android.material.textfield.TextInputLayout  
 android:id="@+id/Full\_NameLayout"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginHorizontal="40dp"  
 android:layout\_marginTop="112dp"  
 android:backgroundTint="@color/lightRed"  
 app:hintTextColor="@color/darkRed"  
 style="@style/Widget.MaterialComponents.TextInputLayout.OutlinedBox"  
 android:hint="Full Name"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent">  
 <com.google.android.material.textfield.TextInputEditText  
 android:id="@+id/Full\_Name"  
 android:inputType="text"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"/>  
  
 </com.google.android.material.textfield.TextInputLayout>  
  
 <com.google.android.material.textfield.TextInputLayout  
 android:id="@+id/EmailLayout"  
 style="@style/Widget.MaterialComponents.TextInputLayout.OutlinedBox"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginHorizontal="40dp"  
 android:backgroundTint="@color/lightRed"  
 app:hintTextColor="@color/darkRed"  
 android:layout\_marginTop="16dp"  
 android:hint="Email (Superior)"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/Full\_NameLayout">  
 <com.google.android.material.textfield.TextInputEditText  
 android:id="@+id/Email"  
 android:inputType="textEmailAddress"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"/>  
 </com.google.android.material.textfield.TextInputLayout>  
  
 <com.google.android.material.textfield.TextInputLayout  
 android:id="@+id/PasswordLayout"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:backgroundTint="@color/lightRed"  
 app:hintTextColor="@color/darkRed"  
 style="@style/Widget.MaterialComponents.TextInputLayout.OutlinedBox"  
 android:layout\_marginHorizontal="40dp"  
 android:layout\_marginTop="16dp"  
 android:hint="Password"  
 app:endIconMode="password\_toggle"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/EmailLayout">  
 <com.google.android.material.textfield.TextInputEditText  
 android:id="@+id/Password"  
 android:inputType="textPassword"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"/>  
 </com.google.android.material.textfield.TextInputLayout>  
  
 <androidx.constraintlayout.widget.ConstraintLayout  
 android:id="@+id/constraintLayout"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginHorizontal="40dp"  
 android:layout\_marginTop="20dp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/PasswordLayout">  
  
 <com.google.android.material.textfield.TextInputLayout  
 android:id="@+id/AgeLayout"  
 android:layout\_width="100dp"  
 android:layout\_height="wrap\_content"  
 style="@style/Widget.MaterialComponents.TextInputLayout.OutlinedBox"  
 android:hint="AGE"  
 android:backgroundTint="@color/lightRed"  
 app:hintTextColor="@color/darkRed"  
 android:textAlignment="center"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent">  
 <com.google.android.material.textfield.TextInputEditText  
 android:id="@+id/Age"  
 android:inputType="number"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"/>  
 </com.google.android.material.textfield.TextInputLayout>  
  
 <Spinner  
 android:id="@+id/Semester"  
 android:layout\_width="100dp"  
 android:layout\_height="wrap\_content"  
 android:backgroundTint="@color/lightRed"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="1.0"  
 app:layout\_constraintStart\_toEndOf="@+id/AgeLayout"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 </androidx.constraintlayout.widget.ConstraintLayout>  
  
 <androidx.constraintlayout.widget.ConstraintLayout  
 android:id="@+id/constraintLayout2"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginHorizontal="40dp"  
 android:layout\_marginTop="20dp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/constraintLayout">  
  
 <Spinner  
 android:id="@+id/Section"  
 android:layout\_width="100dp"  
 android:layout\_height="wrap\_content"  
 android:backgroundTint="@color/lightRed"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <Spinner  
 android:id="@+id/Session"  
 android:layout\_width="100dp"  
 android:layout\_height="wrap\_content"  
 android:backgroundTint="@color/lightRed"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.966"  
 app:layout\_constraintStart\_toEndOf="@+id/Section"  
 app:layout\_constraintTop\_toTopOf="parent" />  
 </androidx.constraintlayout.widget.ConstraintLayout>  
  
 <androidx.constraintlayout.widget.ConstraintLayout  
 android:id="@+id/constraintLayout3"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginHorizontal="40dp"  
 android:layout\_marginTop="20dp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/constraintLayout2">  
  
 <RadioButton  
 android:id="@+id/asStudent"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="As Student"  
 android:textSize="16dp"  
 android:buttonTint="@color/lightRed"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <RadioButton  
 android:id="@+id/asFaculty"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="As Faculty"  
 android:textSize="16dp"  
 android:buttonTint="@color/lightRed"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="1.0"  
 app:layout\_constraintStart\_toEndOf="@+id/asStudent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
 </androidx.constraintlayout.widget.ConstraintLayout>  
  
 <Button  
 android:id="@+id/submit\_btn"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginHorizontal="40dp"  
 android:layout\_marginTop="36dp"  
 android:backgroundTint="@color/lightRed"  
 android:textColor="@color/white"  
 android:text="Submit"  
 android:textStyle="bold"  
 android:textSize="18dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/constraintLayout3"  
 app:layout\_constraintVertical\_bias="0.133" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

## Activity\_user\_settings.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="@color/white"  
 tools:context=".userSettings">  
  
 <de.hdodenhof.circleimageview.CircleImageView  
 android:id="@+id/imageV"  
 android:layout\_width="match\_parent"  
 android:layout\_height="250dp"  
 android:src="@drawable/uploadpic"  
 app:civ\_border\_color="@color/black"  
 app:civ\_border\_width="8dp"  
 app:layout\_constraintBottom\_toTopOf="@+id/fNameLayout"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.209" />  
  
 <com.google.android.material.textfield.TextInputLayout  
 android:id="@+id/fNameLayout"  
 android:backgroundTint="@color/lightRed"  
 app:hintTextColor="@color/darkRed"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginHorizontal="30dp"  
 android:layout\_marginBottom="36dp"  
 style="@style/Widget.MaterialComponents.TextInputLayout.OutlinedBox"  
 android:hint="Full Name"  
 app:layout\_constraintBottom\_toTopOf="@+id/ageLayout"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent">  
  
 <com.google.android.material.textfield.TextInputEditText  
 android:id="@+id/fName"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content" />  
 </com.google.android.material.textfield.TextInputLayout>  
  
  
 <com.google.android.material.textfield.TextInputLayout  
 android:id="@+id/ageLayout"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:backgroundTint="@color/lightRed"  
 app:hintTextColor="@color/darkRed"  
 android:layout\_marginHorizontal="30dp"  
 android:layout\_marginBottom="60dp"  
 style="@style/Widget.MaterialComponents.TextInputLayout.OutlinedBox"  
 android:hint="Age"  
 app:layout\_constraintBottom\_toTopOf="@+id/constraintLayout12"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent">  
  
 <com.google.android.material.textfield.TextInputEditText  
 android:id="@+id/age"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content" />  
 </com.google.android.material.textfield.TextInputLayout>  
  
 <androidx.constraintlayout.widget.ConstraintLayout  
 android:id="@+id/constraintLayout12"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:padding="30dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="1.0"  
 app:layout\_constraintStart\_toStartOf="parent">  
  
 <ImageView  
 android:id="@+id/go\_back"  
 android:layout\_width="40dp"  
 android:layout\_height="40dp"  
 android:src="@drawable/go\_back"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <Button  
 android:id="@+id/save\_changes"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:backgroundTint="@color/white"  
 android:textColor="@color/darkGreen"  
 android:textSize="18dp"  
 android:textStyle="bold"  
 android:text="Save Changes"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.0" />  
  
 </androidx.constraintlayout.widget.ConstraintLayout>  
  
  
</androidx.constraintlayout.widget.ConstraintLayout>

## Change\_perm.xml

<?xml version="1.0" encoding="utf-8"?>  
<androidx.cardview.widget.CardView  
 xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 app:cardElevation="8dp"  
 app:cardCornerRadius="8dp"  
 android:layout\_margin="10dp"  
 app:cardBackgroundColor="@color/red">  
  
 <LinearLayout  
 android:id="@+id/linearlayout"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_margin="10dp"  
 android:orientation="vertical"  
 android:background="@color/white">  
  
 <TextView  
 android:id="@+id/Fullname"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:padding="5dp"  
 android:text="Name of Person"  
 android:textSize="26dp"  
 android:textStyle="bold"  
 android:textColor="@color/darkRed"  
 android:textAlignment="center"/>  
  
 <androidx.constraintlayout.widget.ConstraintLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:paddingVertical="5dp"  
 android:paddingHorizontal="10dp">  
  
 <TextView  
 android:id="@+id/section"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Section: "  
 android:textColor="@color/lightGreen"  
 android:textSize="20dp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <TextView  
 android:id="@+id/semester"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Semester: "  
 android:textColor="@color/lightGreen"  
 android:textSize="20dp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/section" />  
  
 <TextView  
 android:id="@+id/session"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Session: "  
 android:textColor="@color/lightGreen"  
 android:textSize="20dp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/semester" />  
  
 <TextView  
 android:id="@+id/Type"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_margin="10dp"  
 android:text="TYPE: "  
 android:textColor="@color/darkGreen"  
 android:textSize="20dp"  
 android:textStyle="bold"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/session" />  
  
 <Button  
 android:id="@+id/options"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginVertical="10dp"  
 android:backgroundTint="@color/red"  
 android:textColor="@color/white"  
 android:text="Change Type"  
 android:textSize="16dp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@id/Type"  
 app:layout\_constraintVertical\_bias="1.0" />  
  
 </androidx.constraintlayout.widget.ConstraintLayout>  
  
 </LinearLayout>  
  
</androidx.cardview.widget.CardView>

## Curr\_elections.xml

<?xml version="1.0" encoding="utf-8"?>  
<androidx.cardview.widget.CardView  
 xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 app:cardElevation="8dp"  
 app:cardCornerRadius="8dp"  
 android:layout\_margin="10dp"  
 app:cardBackgroundColor="@color/lightGreen">  
  
 <LinearLayout  
 android:id="@+id/linear\_id"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_margin="10dp"  
 android:orientation="vertical"  
 android:background="@color/black">  
  
 <TextView  
 android:id="@+id/title\_election"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:padding="5dp"  
 android:text="Title For Election"  
 android:textSize="20dp"  
 android:textStyle="bold"  
 android:textColor="@color/red"  
 android:textAlignment="center"/>  
  
 <androidx.constraintlayout.widget.ConstraintLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:paddingVertical="5dp"  
 android:paddingHorizontal="10dp">  
  
 <de.hdodenhof.circleimageview.CircleImageView  
 android:id="@+id/img1"  
 android:layout\_width="100dp"  
 android:layout\_height="100dp"  
 app:civ\_border\_color="@color/lightGreen"  
 app:civ\_border\_width="4dp"  
 android:src="@drawable/uploadpicgreen"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <de.hdodenhof.circleimageview.CircleImageView  
 android:id="@+id/img2"  
 android:layout\_width="100dp"  
 android:layout\_height="100dp"  
 app:civ\_border\_color="@color/red"  
 app:civ\_border\_width="4dp"  
 android:src="@drawable/uploadpicred"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <TextView  
 android:id="@+id/votes1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Votes 1: "  
 android:textColor="@color/lightGreen"  
 android:textSize="18dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/img1" />  
  
 <TextView  
 android:id="@+id/votes2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginEnd="28dp"  
 android:text="Votes 2: "  
 android:textColor="@color/lightRed"  
 android:textSize="18dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/img2"  
 app:layout\_constraintVertical\_bias="0.0" />  
  
 </androidx.constraintlayout.widget.ConstraintLayout>  
  
 </LinearLayout>  
</androidx.cardview.widget.CardView>

## Del\_any\_election.xml

<?xml version="1.0" encoding="utf-8"?>  
<androidx.cardview.widget.CardView  
 xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 app:cardElevation="8dp"  
 app:cardCornerRadius="8dp"  
 android:layout\_margin="10dp"  
 app:cardBackgroundColor="@color/red">  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_margin="10dp"  
 android:orientation="vertical"  
 android:background="@color/white">  
  
 <TextView  
 android:id="@+id/title\_election"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:padding="5dp"  
 android:text="Title For Election"  
 android:textSize="20dp"  
 android:textStyle="bold"  
 android:textColor="@color/darkRed"  
 android:textAlignment="center"/>  
  
 <androidx.constraintlayout.widget.ConstraintLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:paddingVertical="5dp"  
 android:paddingHorizontal="10dp">  
  
 <TextView  
 android:id="@+id/status"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_margin="10dp"  
 android:text="STATUS "  
 android:textColor="@color/darkGreen"  
 android:textSize="20dp"  
 android:textStyle="bold"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/votes2" />  
  
 <TextView  
 android:id="@+id/votes1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Votes 1: "  
 android:textColor="@color/lightGreen"  
 android:textSize="20dp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <TextView  
 android:id="@+id/votes2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Votes 2: "  
 android:textColor="@color/lightGreen"  
 android:textSize="20dp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/votes1" />  
  
 <Button  
 android:id="@+id/delete"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginVertical="10dp"  
 android:backgroundTint="@color/red"  
 android:textColor="@color/white"  
 android:text="Delete"  
 android:textSize="16dp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/status"  
 app:layout\_constraintVertical\_bias="1.0" />  
  
 </androidx.constraintlayout.widget.ConstraintLayout>  
  
 </LinearLayout>  
  
</androidx.cardview.widget.CardView>

## Prev\_elections.xml

<?xml version="1.0" encoding="utf-8"?>  
<androidx.cardview.widget.CardView  
 xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 app:cardElevation="8dp"  
 app:cardCornerRadius="8dp"  
 android:layout\_margin="10dp"  
 app:cardBackgroundColor="@color/red">  
  
 <LinearLayout  
 android:id="@+id/linearlayout"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_margin="10dp"  
 android:orientation="vertical"  
 android:background="@color/white">  
  
 <TextView  
 android:id="@+id/title\_election"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:padding="5dp"  
 android:text="Title For Election"  
 android:textSize="20dp"  
 android:textStyle="bold"  
 android:textColor="@color/darkRed"  
 android:textAlignment="center"/>  
  
 <androidx.constraintlayout.widget.ConstraintLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:paddingVertical="5dp"  
 android:paddingHorizontal="10dp">  
  
 <TextView  
 android:id="@+id/status"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_margin="10dp"  
 android:text="STATUS "  
 android:textColor="@color/darkGreen"  
 android:textSize="20dp"  
 android:textStyle="bold"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/votes2" />  
  
 <TextView  
 android:id="@+id/votes1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Votes 1: "  
 android:textColor="@color/lightGreen"  
 android:textSize="20dp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <TextView  
 android:id="@+id/votes2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Votes 2: "  
 android:textColor="@color/lightGreen"  
 android:textSize="20dp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/votes1" />  
  
 <Button  
 android:id="@+id/options"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginVertical="10dp"  
 android:backgroundTint="@color/red"  
 android:textColor="@color/white"  
 android:text="Edit / Delete"  
 android:textSize="16dp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/status"  
 app:layout\_constraintVertical\_bias="1.0" />  
  
 </androidx.constraintlayout.widget.ConstraintLayout>  
  
 </LinearLayout>  
  
</androidx.cardview.widget.CardView>

## AddNewElection.java

package com.example.votingsystem;  
  
  
import androidx.annotation.NonNull;  
import androidx.annotation.Nullable;  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.app.Activity;  
import android.content.Intent;  
import android.graphics.Bitmap;  
import android.graphics.BitmapFactory;  
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.RadioButton;  
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.auth.FirebaseAuth;  
import com.google.firebase.auth.FirebaseUser;  
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 com.google.firebase.storage.FileDownloadTask;  
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;  
  
public class AddNewElection extends AppCompatActivity  
{  
 ImageView back;  
 ImageView pic\_1;  
 ImageView pic\_2;  
 EditText title, name\_1, name\_2, email\_1, email\_2, roll\_1, roll\_2;  
 Button submit;  
 RadioButton finish, start;  
  
 Uri imageUri1, imageUri2;  
  
 String Tit;  
 String V1;  
 String V2;  
 String usID;  
 String Stat;  
 String I1;  
 String I2;  
 String e1;  
 String e2;  
 String n1;  
 String n2;  
 String r1;  
 String r2;  
  
 FirebaseAuth firebaseAuth;  
 FirebaseStorage firebaseStorage;  
 StorageReference storageReference;  
  
 int incrementElection = 0;  
 int incrementImage = 0;  
  
 boolean uploaded1 = false;  
 boolean uploaded2 = false;  
  
 private FirebaseUser mUser;  
 private DatabaseReference reference;  
 private String uID;  
  
 String tempName = "";  
 String tempName2 = "";  
 String v1 = "0",v2 = "0";  
 String status = "On-Going";  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState)  
 {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_add\_new\_election);  
  
 firebaseAuth = FirebaseAuth.getInstance();  
 firebaseStorage = FirebaseStorage.getInstance();  
 storageReference = FirebaseStorage.getInstance().getReference();  
  
 mUser = FirebaseAuth.getInstance().getCurrentUser();  
 reference = FirebaseDatabase.getInstance().getReference("Users");  
 uID = mUser.getUid();  
  
 start = (RadioButton) findViewById(R.id.ongoin);  
 finish = (RadioButton) findViewById(R.id.conc);  
 title = (EditText) findViewById(R.id.title\_for\_election);  
 pic\_1 = (ImageView) findViewById(R.id.pic1);  
 pic\_2 = (ImageView) findViewById(R.id.pic2);  
 email\_1= (EditText) findViewById(R.id.email1);  
 email\_2= (EditText) findViewById(R.id.email2);  
 name\_1 = (EditText) findViewById(R.id.name1);  
 name\_2 = (EditText) findViewById(R.id.name2);  
 roll\_1 = (EditText) findViewById(R.id.roll1);  
 roll\_2 = (EditText) findViewById(R.id.roll2);  
 submit = (Button) findViewById(R.id.submitbtn);  
  
 start.setVisibility(View.GONE);  
 finish.setVisibility(View.GONE);  
  
 start.setOnClickListener(new View.OnClickListener()  
 {  
 @Override  
 public void onClick(View view)  
 {  
 finish.setChecked(false);  
 status = "On-Going";  
 }  
 });  
 finish.setOnClickListener(new View.OnClickListener()  
 {  
 @Override  
 public void onClick(View view)  
 {  
 start.setChecked(false);  
 status = "Concluded";  
 }  
 });  
  
 Bundle intent = getIntent().getExtras();  
 if(intent != null)  
 {  
 Tit = intent.getString("Tit");  
 e1 = intent.getString("e1");  
 e2 = intent.getString("e2");  
 n1 = intent.getString("n1");  
 n2 = intent.getString("n2");  
 r1 = intent.getString("r1");  
 r2 = intent.getString("r2");  
 V1 = intent.getString("V1");  
 V2 = intent.getString("V2");  
 usID = intent.getString("uID");  
 Stat = intent.getString("Stat");  
 I1 = intent.getString("I1");  
 I2 = intent.getString("I2");  
  
 incrementImage = Integer.parseInt(intent.getString("Position"));  
 incrementElection = Integer.parseInt(intent.getString("Position"));  
// incrementLocation--;  
  
 title.setText(Tit);  
 email\_1.setText(e1);  
 email\_2.setText(e2);  
 name\_1.setText(n1);  
 name\_2.setText(n2);  
 roll\_1.setText(r1);  
 roll\_2.setText(r2);  
 v1 = V1;  
 v2 = V2;  
 status = Stat;  
 start.setVisibility(View.VISIBLE);  
 finish.setVisibility(View.VISIBLE);  
  
 submit.setText("Update Changes");  
 uploaded1 = true;  
 uploaded2 = true;  
  
 StorageReference storageReference = FirebaseStorage.getInstance().getReference(I1);  
 try{  
 File localfile = File.createTempFile("tempfile",".jpg");  
 storageReference.getFile(localfile)  
 .addOnSuccessListener(new OnSuccessListener<FileDownloadTask.TaskSnapshot>()  
 {  
 @Override  
 public void onSuccess(FileDownloadTask.TaskSnapshot taskSnapshot)  
 {  
 Bitmap bitmap = BitmapFactory.decodeFile(localfile.getAbsolutePath());  
 pic\_1.setImageBitmap(bitmap);  
 }  
 }).addOnFailureListener(new OnFailureListener()  
 {  
 @Override  
 public void onFailure(@NonNull Exception e)  
 {  
  
 }  
 });  
 }catch (IOException e)  
 {  
 e.printStackTrace();  
 }  
  
  
 StorageReference storageReference2 = FirebaseStorage.getInstance().getReference(I2);  
 try{  
 File localfile = File.createTempFile("tempfile",".jpg");  
 storageReference2.getFile(localfile)  
 .addOnSuccessListener(new OnSuccessListener<FileDownloadTask.TaskSnapshot>()  
 {  
 @Override  
 public void onSuccess(FileDownloadTask.TaskSnapshot taskSnapshot)  
 {  
 Bitmap bitmap = BitmapFactory.decodeFile(localfile.getAbsolutePath());  
 pic\_2.setImageBitmap(bitmap);  
 }  
 }).addOnFailureListener(new OnFailureListener()  
 {  
 @Override  
 public void onFailure(@NonNull Exception e)  
 {  
  
 }  
 });  
 }catch (IOException e)  
 {  
 e.printStackTrace();  
 }  
 }  
  
 setValueElectionIncrement();  
 SetValueImageIncrement();  
  
 back = (ImageView) findViewById(R.id.go\_back);  
 back.setOnClickListener(new View.OnClickListener()  
 {  
 @Override  
 public void onClick(View view)  
 {  
 Intent intent = new Intent(AddNewElection.this, Dashboard.class);  
 startActivity(intent);  
 finish();  
 }  
 });  
  
 pic\_1.setOnClickListener(new View.OnClickListener()  
 {  
 @Override  
 public void onClick(View view)  
 {  
 Intent openGallery = new Intent(Intent.ACTION\_PICK, MediaStore.Images.Media.EXTERNAL\_CONTENT\_URI);  
 startActivityForResult(openGallery, 100);  
 }  
 });  
 pic\_2.setOnClickListener(new View.OnClickListener()  
 {  
 @Override  
 public void onClick(View view)  
 {  
 Intent openGallery = new Intent(Intent.ACTION\_PICK, MediaStore.Images.Media.EXTERNAL\_CONTENT\_URI);  
 startActivityForResult(openGallery, 200);  
 }  
 });  
  
 submit.setOnClickListener(new View.OnClickListener()  
 {  
 @Override  
 public void onClick(View view)  
 {  
 boolean check = false;  
  
 if(title.getText().toString().trim().isEmpty())  
 {  
 check = true;  
 title.setError("Please Enter a Title");  
 }  
 if(name\_1.getText().toString().trim().isEmpty())  
 {  
 check = true;  
 name\_1.setError("Please Enter Person 1's Name");  
 }  
 if(name\_2.getText().toString().trim().isEmpty())  
 {  
 check = true;  
 name\_2.setError("Please Enter Person 2's Name");  
 }  
 if(email\_1.getText().toString().trim().isEmpty())  
 {  
 check = true;  
 email\_1.setError("Please Enter Person 1's Email");  
 }  
 if(email\_2.getText().toString().trim().isEmpty())  
 {  
 check = true;  
 email\_2.setError("Please Enter Person 2's Email");  
 }  
 if(roll\_1.getText().toString().trim().isEmpty())  
 {  
 check = true;  
 roll\_1.setError("Please Enter Person 1's Email");  
 }  
 if(roll\_2.getText().toString().trim().isEmpty())  
 {  
 check = true;  
 roll\_2.setError("Please Enter Person 2's Email");  
 }  
  
 if(uploaded1 == false && uploaded2 == false)  
 {  
 check = true;  
 Toast.makeText(AddNewElection.this, "Please Upload Person 1's & Person 2's Picture", Toast.LENGTH\_SHORT).show();  
 }  
 else if(uploaded1 == false)  
 {  
 check = true;  
 Toast.makeText(AddNewElection.this, "Please Upload Person 1's Picture", Toast.LENGTH\_SHORT).show();  
 }  
 else if(uploaded2 == false)  
 {  
 check = true;  
 Toast.makeText(AddNewElection.this, "Please Upload Person 2's Picture", Toast.LENGTH\_SHORT).show();  
 }  
  
 if(check == false)  
 {  
 String Title = title.getText().toString().trim();  
 String name1 = name\_1.getText().toString().trim();  
 String name2 = name\_2.getText().toString().trim();  
 String email1 = email\_1.getText().toString().trim();  
 String email2 = email\_2.getText().toString().trim();  
 String roll1 = roll\_1.getText().toString().trim();  
 String roll2 = roll\_2.getText().toString().trim();  
 String userID = uID;  
  
 submitData(Title, name1, name2, email1, email2, roll1, roll2, imageUri1, imageUri2, v1, v2, userID);  
 }  
 }  
 });  
 }  
  
 private void setValueElectionIncrement()  
 {  
 reference.child(uID).addListenerForSingleValueEvent(new ValueEventListener()  
 {  
 @Override  
 public void onDataChange(@NonNull DataSnapshot snapshot)  
 {  
 Userdata userProfile = snapshot.getValue(Userdata.class);  
  
 if(userProfile != null)  
 {  
 tempName = userProfile.fullName;  
  
 if(tempName.substring(tempName.length() - 1).matches("[0-9]") == false)  
 {  
 String nameCopy = tempName + "\_" + incrementElection;  
 incrementElection = Integer.parseInt(nameCopy.substring(nameCopy.length() - 1 ));  
 }  
 else  
 {  
 incrementElection = Integer.parseInt(tempName.substring(tempName.length() - 1 ));  
 }  
 incrementElection++;  
  
 tempName = tempName + "\_" + incrementElection;  
 }  
 }  
  
 @Override  
 public void onCancelled(@NonNull DatabaseError error)  
 {  
 Toast.makeText(AddNewElection.this, "Error: Something went wrong...", Toast.LENGTH\_LONG).show();  
 }  
 });  
 }  
 private void SetValueImageIncrement()  
 {  
 reference.child(uID).addListenerForSingleValueEvent(new ValueEventListener()  
 {  
 @Override  
 public void onDataChange(@NonNull DataSnapshot snapshot)  
 {  
 Userdata userProfile = snapshot.getValue(Userdata.class);  
  
 if(userProfile != null)  
 {  
 tempName2 = userProfile.fullName;  
  
 if(tempName2.substring(tempName2.length() - 1).matches("[0-9]") == false)  
 {  
 String nameCopy = tempName2 + "\_" + incrementImage;  
 incrementImage = Integer.parseInt(nameCopy.substring(nameCopy.length() - 1 ));  
 }  
 else  
 {  
 incrementElection = Integer.parseInt(tempName2.substring(tempName2.length() - 1 ));  
 }  
 incrementImage++;  
  
 tempName2 = tempName2 + "\_" + incrementImage;  
 }  
 }  
  
 @Override  
 public void onCancelled(@NonNull DatabaseError error)  
 {  
 Toast.makeText(AddNewElection.this, "Error: Something went wrong...", Toast.LENGTH\_LONG).show();  
 }  
 });  
 }  
  
 @Override  
 protected void onActivityResult(int requestCode, int resultCode, @Nullable Intent data)  
 {  
 super.onActivityResult(requestCode, resultCode, data);  
 if(requestCode == 100)  
 {  
 if(resultCode == Activity.RESULT\_OK)  
 {  
 imageUri1 = data.getData();  
 pic\_1.setImageURI(imageUri1);  
 uploaded1 = true;  
 }  
 }  
 else if(requestCode == 200)  
 {  
 if(resultCode == Activity.RESULT\_OK)  
 {  
 imageUri2 = data.getData();  
 pic\_2.setImageURI(imageUri2);  
 uploaded2 = true;  
 }  
 }  
 }  
  
 private void submitData(String title, String name1, String name2, String email1, String email2,  
 String roll1, String roll2, Uri imageUri1, Uri imageUri2, String votes1, String votes2, String userID)  
 {  
 SetValueImageIncrement();  
 String img1 = tempName2 + "\_" + name1 + ".jpg";  
 String img2 = tempName2 + "\_" + name2 + ".jpg";  
  
 StorageReference fileRef1 = storageReference.child(img1);  
 fileRef1.putFile(imageUri1).addOnSuccessListener(new OnSuccessListener<UploadTask.TaskSnapshot>()  
 {  
 @Override  
 public void onSuccess(UploadTask.TaskSnapshot taskSnapshot)  
 {  
  
 }  
 }).addOnFailureListener(new OnFailureListener()  
 {  
 @Override  
 public void onFailure(@NonNull Exception e)  
 {  
  
 }  
 });  
 StorageReference fileRef2 = storageReference.child(img2);  
 fileRef2.putFile(imageUri2).addOnSuccessListener(new OnSuccessListener<UploadTask.TaskSnapshot>()  
 {  
 @Override  
 public void onSuccess(UploadTask.TaskSnapshot taskSnapshot)  
 {  
  
 }  
 }).addOnFailureListener(new OnFailureListener()  
 {  
 @Override  
 public void onFailure(@NonNull Exception e)  
 {  
  
 }  
 });  
  
 Electiondata electiondata = new  
 Electiondata(title, name1, name2, email1, email2,  
 roll1, roll2, votes1, votes2, userID, status, img1, img2);  
  
 setValueElectionIncrement();  
  
 FirebaseDatabase.getInstance().getReference("ElectionData")  
 .child(tempName)  
 .setValue(electiondata).addOnCompleteListener(new OnCompleteListener<Void>() {  
 @Override  
 public void onComplete(@NonNull Task<Void> task)  
 {  
 if(task.isSuccessful())  
 {  
 Toast.makeText(AddNewElection.this,"Successfully Created...",Toast.LENGTH\_LONG).show();  
 }  
 else  
 {  
 Toast.makeText(AddNewElection.this,"Error in Data Entry...",Toast.LENGTH\_LONG).show();  
 }  
 }  
 });  
 }  
}

## Change\_Permission.java

package com.example.votingsystem;  
  
import androidx.annotation.NonNull;  
import androidx.appcompat.app.AppCompatActivity;  
import androidx.recyclerview.widget.LinearLayoutManager;  
import androidx.recyclerview.widget.RecyclerView;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.ImageView;  
  
import com.google.firebase.auth.FirebaseAuth;  
import com.google.firebase.auth.FirebaseUser;  
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;  
  
public class Change\_Permission extends AppCompatActivity  
{  
 RecyclerView recyclerView;  
 DatabaseReference databaseReference;  
 MyChangePermAdapter myChangePermAdapter;  
 ArrayList<ChangePermissionData> list;  
  
 ImageView back;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState)  
 {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_change\_permission);  
  
 back = (ImageView) findViewById(R.id.go\_back);  
 back.setOnClickListener(new View.OnClickListener()  
 {  
 @Override  
 public void onClick(View view)  
 {  
 Intent intent = new Intent(Change\_Permission.this, Dashboard.class);  
 startActivity(intent);  
 finish();  
 }  
 });  
  
 recyclerView = findViewById(R.id.recyclerView);  
 databaseReference = FirebaseDatabase.getInstance().getReference("Users");  
  
 recyclerView.setHasFixedSize(true);  
 recyclerView.setLayoutManager(new LinearLayoutManager(this));  
  
 list = new ArrayList<>();  
 myChangePermAdapter = new MyChangePermAdapter(this,list);  
 recyclerView.setAdapter(myChangePermAdapter);  
  
 databaseReference.addValueEventListener(new ValueEventListener()  
 {  
 @Override  
 public void onDataChange(@NonNull DataSnapshot snapshot)  
 {  
 for(DataSnapshot dataSnapshot : snapshot.getChildren())  
 {  
 ChangePermissionData changePermissionData = dataSnapshot.getValue(ChangePermissionData.class);  
 list.add(changePermissionData);  
 }  
 myChangePermAdapter.notifyDataSetChanged();  
 }  
  
 @Override  
 public void onCancelled(@NonNull DatabaseError error)  
 {  
  
 }  
 });  
 }  
}

## ChangePermissionData.java

package com.example.votingsystem;  
  
public class ChangePermissionData  
{  
 String Img, Key, age, email, fullName, password, section, semester, session, type;  
  
 ChangePermissionData()  
 {  
  
 }  
  
 ChangePermissionData(String Img, String age, String email, String fullName, String password, String section, String semester, String session, String type)  
 {  
 this.Img = Img;  
 this.age = age;  
 this.email = email;  
 this.fullName = fullName;  
 this.password = password;  
 this.section = section;  
 this.semester = semester;  
 this.session = session;  
 this.type = type;  
 }  
  
 public void setType(String type) {  
 this.type = type;  
 }  
  
 public String getFullName() {  
 return fullName;  
 }  
 public String getSection() {  
 return section;  
 }  
 public String getSemester() {  
 return semester;  
 }  
 public String getSession() {  
 return session;  
 }  
 public String getType() {  
 return type;  
 }  
 public String getKey() {  
 return Key;  
 }  
 public String getAge() {  
 return age;  
 }  
 public String getEmail() {  
 return email;  
 }  
 public String getImg() {  
 return Img;  
 }  
 public String getPassword() {  
 return password;  
 }  
}

## CheckPreviousElections.java

package com.example.votingsystem;  
  
import androidx.annotation.NonNull;  
import androidx.appcompat.app.AppCompatActivity;  
import androidx.recyclerview.widget.LinearLayoutManager;  
import androidx.recyclerview.widget.RecyclerView;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.ImageView;  
  
import com.google.firebase.auth.FirebaseAuth;  
import com.google.firebase.auth.FirebaseUser;  
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;  
  
public class CheckPreviousElections extends AppCompatActivity  
{  
 RecyclerView recyclerView;  
 DatabaseReference databaseReference;  
 MyPreviousElectionAdapter myPreviousElectionAdapter;  
 ArrayList<PreviousElectionData> list;  
  
 ImageView back;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState)  
 {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_check\_previous\_elections);  
  
 back = (ImageView) findViewById(R.id.go\_back);  
 back.setOnClickListener(new View.OnClickListener()  
 {  
 @Override  
 public void onClick(View view)  
 {  
 Intent intent = new Intent(CheckPreviousElections.this, Dashboard.class);  
 startActivity(intent);  
 finish();  
 }  
 });  
  
 recyclerView = findViewById(R.id.*recyclerView*);  
 databaseReference = FirebaseDatabase.*getInstance*().getReference("ElectionData");  
  
 recyclerView.setHasFixedSize(true);  
 recyclerView.setLayoutManager(new LinearLayoutManager(this));  
  
 list = new ArrayList<>();  
 myPreviousElectionAdapter = new MyPreviousElectionAdapter(this,list);  
 recyclerView.setAdapter(myPreviousElectionAdapter);  
  
 databaseReference.addValueEventListener(new ValueEventListener()  
 {  
 @Override  
 public void onDataChange(@NonNull DataSnapshot snapshot)  
 {  
 for(DataSnapshot dataSnapshot : snapshot.getChildren())  
 {  
 PreviousElectionData previousElectionData = dataSnapshot.getValue(PreviousElectionData.class);  
 FirebaseUser mUser = FirebaseAuth.getInstance().getCurrentUser();  
 String uID = mUser.getUid();  
  
 if(previousElectionData.getUserID().equals(uID))  
 {  
 list.add(previousElectionData);  
 }  
 }  
 myPreviousElectionAdapter.notifyDataSetChanged();  
 }  
  
 @Override  
 public void onCancelled(@NonNull DatabaseError error)  
 {  
  
 }  
 });  
 }  
}

## CurrAdapter.java

package com.example.votingsystem;  
  
import android.annotation.SuppressLint;  
import android.app.AlertDialog;  
import android.content.Context;  
import android.content.DialogInterface;  
import android.content.Intent;  
import android.graphics.Bitmap;  
import android.graphics.BitmapFactory;  
import android.view.LayoutInflater;  
import android.view.View;  
import android.view.ViewGroup;  
import android.widget.ImageView;  
import android.widget.LinearLayout;  
import android.widget.TextView;  
import android.widget.Toast;  
  
import androidx.annotation.NonNull;  
import androidx.recyclerview.widget.RecyclerView;  
  
import com.google.android.gms.tasks.OnFailureListener;  
import com.google.android.gms.tasks.OnSuccessListener;  
import com.google.firebase.auth.FirebaseAuth;  
import com.google.firebase.database.DatabaseReference;  
import com.google.firebase.database.FirebaseDatabase;  
import com.google.firebase.firestore.FirebaseFirestore;  
import com.google.firebase.storage.FileDownloadTask;  
import com.google.firebase.storage.FirebaseStorage;  
import com.google.firebase.storage.StorageReference;  
  
import java.io.File;  
import java.io.IOException;  
import java.util.ArrayList;  
  
import de.hdodenhof.circleimageview.CircleImageView;  
  
public class CurrAdapter extends RecyclerView.Adapter<CurrAdapter.myViewHolder>  
{  
 Context context;  
 ArrayList<CurrElectionData> list;  
 FirebaseFirestore firestore;  
 FirebaseAuth auth;  
 String pos = "";  
  
 public CurrAdapter(Context context, ArrayList<CurrElectionData> list)  
 {  
 this.context = context;  
 this.list = list;  
 firestore = FirebaseFirestore.getInstance();  
 auth = FirebaseAuth.getInstance();  
 }  
  
 @NonNull  
 @Override  
 public myViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int viewType)  
 {  
 View view = LayoutInflater.from(context).inflate(R.layout.curr\_elections,parent,false);  
  
 return new myViewHolder(view);  
 }  
  
 @Override  
 public void onBindViewHolder(@NonNull myViewHolder holder, @SuppressLint("RecyclerView") int position)  
 {  
 CurrElectionData currElectionData = list.get(position);  
 holder.title.setText(currElectionData.getTitle());  
 holder.votes1.setText("Votes 1: " + currElectionData.getVotes1());  
 holder.votes2.setText("Votes 2: " + currElectionData.getVotes2());  
  
 StorageReference storageReference1 = FirebaseStorage.getInstance().getReference(currElectionData.getImg1());  
 try{  
 File localfile1 = File.createTempFile("tempfile",".jpg");  
 storageReference1.getFile(localfile1)  
 .addOnSuccessListener(new OnSuccessListener<FileDownloadTask.TaskSnapshot>()  
 {  
 @Override  
 public void onSuccess(FileDownloadTask.TaskSnapshot taskSnapshot)  
 {  
 Bitmap bitmap = BitmapFactory.decodeFile(localfile1.getAbsolutePath());  
 holder.img1.setImageBitmap(bitmap);  
 }  
 }).addOnFailureListener(new OnFailureListener()  
 {  
 @Override  
 public void onFailure(@NonNull Exception e)  
 {  
  
 }  
 });  
 }catch (IOException e)  
 {  
 e.printStackTrace();  
 }  
 StorageReference storageReference2 = FirebaseStorage.getInstance().getReference(currElectionData.getImg2());  
 try{  
 File localfile2 = File.createTempFile("tempfile",".jpg");  
 storageReference2.getFile(localfile2)  
 .addOnSuccessListener(new OnSuccessListener<FileDownloadTask.TaskSnapshot>()  
 {  
 @Override  
 public void onSuccess(FileDownloadTask.TaskSnapshot taskSnapshot)  
 {  
 Bitmap bitmap = BitmapFactory.decodeFile(localfile2.getAbsolutePath());  
 holder.img2.setImageBitmap(bitmap);  
 }  
 }).addOnFailureListener(new OnFailureListener()  
 {  
 @Override  
 public void onFailure(@NonNull Exception e)  
 {  
  
 }  
 });  
 }catch (IOException e)  
 {  
 e.printStackTrace();  
 }  
  
 holder.linear.setOnClickListener(new View.OnClickListener()  
 {  
 @Override  
 public void onClick(View view)  
 {  
// CurrElectionData curr = list.get(position);  
 Intent intent = new Intent(context, Election\_details.class);  
 intent.putExtra("sendTitle", currElectionData.getTitle());  
 intent.putExtra("sendImg1", currElectionData.getImg1());  
 intent.putExtra("sendImg2", currElectionData.getImg2());  
 intent.putExtra("sendName1", currElectionData.getName1());  
 intent.putExtra("sendName2", currElectionData.getName2());  
 intent.putExtra("sendRoll1", currElectionData.getRoll1());  
 intent.putExtra("sendRoll2", currElectionData.getRoll2());  
 intent.putExtra("sendVotes1", currElectionData.getVotes1());  
 intent.putExtra("sendVotes2", currElectionData.getVotes2());  
 intent.setFlags(Intent.FLAG\_ACTIVITY\_NEW\_TASK);  
  
 context.startActivity(intent);  
 }  
 });  
 }  
  
  
 @Override  
 public int getItemCount() {  
 return list.size();  
 }  
  
 public static class myViewHolder extends RecyclerView.ViewHolder  
 {  
 CircleImageView img1, img2;  
 TextView title,votes1,votes2;  
 LinearLayout linear;  
  
 public myViewHolder(@NonNull View itemView)  
 {  
 super(itemView);  
//  
 img1 = (CircleImageView) itemView.findViewById(R.id.img1);  
 img2 = (CircleImageView) itemView.findViewById(R.id.img2);  
 title= (TextView) itemView.findViewById(R.id.title\_election);  
 votes1= (TextView) itemView.findViewById(R.id.votes1);  
 votes2= (TextView) itemView.findViewById(R.id.votes2);  
 linear = (LinearLayout) itemView.findViewById(R.id.linear\_id);  
 }  
 }  
}

## CurrElectionData.java

package com.example.votingsystem;  
  
public class CurrElectionData  
{  
 String Title, Votes1, Votes2, Img1, Img2, userID, roll1, roll2, name1, name2, Status;  
  
 public String getUserID() {  
 return userID;  
 }  
 public String getImg2() {  
 return Img2;  
 }  
 public String getImg1() {  
 return Img1;  
 }  
 public String getVotes2() {  
 return Votes2;  
 }  
 public String getTitle() {  
 return Title;  
 }  
 public String getVotes1() {  
 return Votes1;  
 }  
 public String getRoll1() {  
 return roll1;  
 }  
 public String getRoll2() {  
 return roll2;  
 }  
 public String getName1() {  
 return name1;  
 }  
 public String getName2() {  
 return name2;  
 }  
 public String getStatus() {  
 return Status;  
 }  
}

## CurrentElections.java

package com.example.votingsystem;  
  
import androidx.annotation.NonNull;  
import androidx.appcompat.app.AppCompatActivity;  
import androidx.recyclerview.widget.LinearLayoutManager;  
import androidx.recyclerview.widget.RecyclerView;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.ImageView;  
  
import com.google.firebase.auth.FirebaseAuth;  
import com.google.firebase.auth.FirebaseUser;  
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;  
  
public class CurrentElections extends AppCompatActivity  
{  
 RecyclerView recyclerView;  
 DatabaseReference databaseReference;  
 CurrAdapter currAdapter;  
 ArrayList<CurrElectionData> currlist;  
  
 ImageView back;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState)  
 {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_current\_elections);  
  
 back = (ImageView) findViewById(R.id.go\_back);  
 back.setOnClickListener(new View.OnClickListener()  
 {  
 @Override  
 public void onClick(View view)  
 {  
 Intent intent = new Intent(CurrentElections.this, Dashboard.class);  
 startActivity(intent);  
 finish();  
 }  
 });  
  
 databaseReference = FirebaseDatabase.*getInstance*().getReference("ElectionData");  
  
 recyclerView = findViewById(R.id.*recyclerViewCurr*);  
 recyclerView.setLayoutManager(new LinearLayoutManager(CurrentElections.this));  
  
 currlist = new ArrayList<>();  
 currAdapter = new CurrAdapter(CurrentElections.this,currlist);  
 recyclerView.setAdapter(currAdapter);  
  
 databaseReference.addValueEventListener(new ValueEventListener()  
 {  
 @Override  
 public void onDataChange(@NonNull DataSnapshot snapshot)  
 {  
 for(DataSnapshot dataSnapshot : snapshot.getChildren())  
 {  
 CurrElectionData currElectionData = dataSnapshot.getValue(CurrElectionData.class);  
  
 if(currElectionData.getStatus().equals("On-Going"))  
 {  
 currlist.add(dataSnapshot.getValue(CurrElectionData.class));  
 }  
 }  
 currAdapter.notifyDataSetChanged();  
 }  
  
  
 @Override  
 public void onCancelled(@NonNull DatabaseError error)  
 {  
  
 }  
 });  
 }  
}

## Dashboard.java

package com.example.votingsystem;  
  
import androidx.annotation.NonNull;  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.graphics.Bitmap;  
import android.graphics.BitmapFactory;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.TextView;  
import android.widget.Toast;  
  
import com.google.android.gms.tasks.OnFailureListener;  
import com.google.android.gms.tasks.OnSuccessListener;  
import com.google.firebase.auth.FirebaseAuth;  
import com.google.firebase.auth.FirebaseUser;  
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 com.google.firebase.storage.FileDownloadTask;  
import com.google.firebase.storage.FirebaseStorage;  
import com.google.firebase.storage.StorageReference;  
  
import java.io.File;  
import java.io.IOException;  
  
import de.hdodenhof.circleimageview.CircleImageView;  
  
public class Dashboard extends AppCompatActivity  
{  
  
 TextView txt1, txt2;  
 CircleImageView pic;  
 Button logout;  
 Button add;  
 Button prev;  
 Button del;  
 Button change;  
 Button current;  
 Button setting;  
  
 public String usertype, fName;  
  
 private FirebaseUser mUser;  
 private DatabaseReference reference;  
  
 private String uID;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState)  
 {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_dashboard);  
  
 mUser = FirebaseAuth.getInstance().getCurrentUser();  
 reference = FirebaseDatabase.getInstance().getReference("Users");  
 uID = mUser.getUid();  
  
 txt1 = (TextView) findViewById(R.id.type\_of\_login);  
 txt2 = (TextView) findViewById(R.id.full\_name);  
 pic = (CircleImageView)findViewById(R.id.picture);  
  
 pic.setOnClickListener(new View.OnClickListener()  
 {  
 @Override  
 public void onClick(View view)  
 {  
 Intent intent = new Intent(Dashboard.this, userSettings.class);  
 startActivity(intent);  
 }  
 });  
  
 reference.child(uID).addListenerForSingleValueEvent(new ValueEventListener()  
 {  
 @Override  
 public void onDataChange(@NonNull DataSnapshot snapshot)  
 {  
 Userdata userProfile = snapshot.getValue(Userdata.class);  
  
 if(userProfile != null)  
 {  
 fName = userProfile.fullName;  
 usertype = userProfile.type;  
  
 StorageReference storageReference = FirebaseStorage.getInstance().getReference(userProfile.Img);  
 try{  
 File localfile2 = File.createTempFile("tempfile",".jpg");  
 storageReference.getFile(localfile2)  
 .addOnSuccessListener(new OnSuccessListener<FileDownloadTask.TaskSnapshot>()  
 {  
 @Override  
 public void onSuccess(FileDownloadTask.TaskSnapshot taskSnapshot)  
 {  
 Bitmap bitmap = BitmapFactory.decodeFile(localfile2.getAbsolutePath());  
 pic.setImageBitmap(bitmap);  
 }  
 }).addOnFailureListener(new OnFailureListener()  
 {  
 @Override  
 public void onFailure(@NonNull Exception e)  
 {  
  
 }  
 });  
 }catch (IOException e)  
 {  
 e.printStackTrace();  
 }  
  
 txt1.setText(usertype);  
 txt2.setText(fName);  
 }  
 }  
  
 @Override  
 public void onCancelled(@NonNull DatabaseError error)  
 {  
 Toast.makeText(Dashboard.this, "Error: Something went wrong...", Toast.LENGTH\_LONG).show();  
 }  
 });  
  
 current = (Button) findViewById(R.id.on\_going);  
 current.setOnClickListener(new View.OnClickListener()  
 {  
 @Override  
 public void onClick(View view)  
 {  
 Intent intent = new Intent(Dashboard.this, CurrentElections.class);  
 startActivity(intent);  
 }  
 });  
  
 add = (Button) findViewById(R.id.add\_new);  
 add.setOnClickListener(new View.OnClickListener()  
 {  
 @Override  
 public void onClick(View view)  
 {  
 Intent intent = new Intent(Dashboard.this, AddNewElection.class);  
 startActivity(intent);  
 }  
 });  
  
 prev = (Button) findViewById(R.id.my\_prev);  
 prev.setOnClickListener(new View.OnClickListener()  
 {  
 @Override  
 public void onClick(View view)  
 {  
 Intent intent = new Intent(Dashboard.this, CheckPreviousElections.class);  
 startActivity(intent);  
 }  
 });  
  
 del = (Button) findViewById(R.id.del\_elec);  
 del.setOnClickListener(new View.OnClickListener()  
 {  
 @Override  
 public void onClick(View view)  
 {  
 reference.child(uID).addValueEventListener(new ValueEventListener()  
 {  
 @Override  
 public void onDataChange(@NonNull DataSnapshot snapshot)  
 {  
 Userdata userProfile = snapshot.getValue(Userdata.class);  
 if(userProfile != null)  
 {  
 if(userProfile.type.equals("Student"))  
 {  
 Toast.makeText(Dashboard.this, "Sorry, Only For Faculty...", Toast.LENGTH\_LONG).show();  
 }  
 else  
 {  
 Intent intent = new Intent(Dashboard.this, Del\_Any.class);  
 startActivity(intent);  
 }  
 }  
 }  
  
 @Override  
 public void onCancelled(@NonNull DatabaseError error)  
 {  
  
 }  
 });  
 }  
 });  
  
 change = (Button) findViewById(R.id.make\_faculty);  
 change.setOnClickListener(new View.OnClickListener()  
 {  
 @Override  
 public void onClick(View view)  
 {  
 reference.child(uID).addValueEventListener(new ValueEventListener()  
 {  
 @Override  
 public void onDataChange(@NonNull DataSnapshot snapshot)  
 {  
 Userdata userProfile = snapshot.getValue(Userdata.class);  
 if(userProfile != null)  
 {  
 if(userProfile.type.equals("Student"))  
 {  
 Toast.makeText(Dashboard.this, "Sorry, Only For Faculty...", Toast.LENGTH\_LONG).show();  
 }  
 else  
 {  
 Intent intent = new Intent(Dashboard.this, Change\_Permission.class);  
 startActivity(intent);  
 }  
 }  
 }  
  
 @Override  
 public void onCancelled(@NonNull DatabaseError error)  
 {  
  
 }  
 });  
 }  
 });  
  
 setting = (Button) findViewById(R.id.setting\_btn);  
 setting.setOnClickListener(new View.OnClickListener()  
 {  
 @Override  
 public void onClick(View view)  
 {  
 Intent intent = new Intent(Dashboard.this, userSettings.class);  
 startActivity(intent);  
 }  
 });  
  
 logout = (Button) findViewById(R.id.logout\_btn);  
 logout.setOnClickListener(new View.OnClickListener()  
 {  
 @Override  
 public void onClick(View view)  
 {  
 FirebaseAuth.getInstance().signOut();  
 startActivity(new Intent(Dashboard.this, MainActivity.class));  
 finish();  
 }  
 });  
 }  
}

## Del\_Any.java

package com.example.votingsystem;  
  
import androidx.annotation.NonNull;  
import androidx.appcompat.app.AppCompatActivity;  
import androidx.recyclerview.widget.LinearLayoutManager;  
import androidx.recyclerview.widget.RecyclerView;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.ImageView;  
  
import com.google.firebase.auth.FirebaseAuth;  
import com.google.firebase.auth.FirebaseUser;  
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;  
  
public class Del\_Any extends AppCompatActivity  
{  
 RecyclerView recyclerView;  
 DatabaseReference databaseReference;  
 MyDelAnyAdapter myDelAnyAdapter;  
 ArrayList<PreviousElectionData> list;  
  
 ImageView back;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState)  
 {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_check\_previous\_elections*);  
  
 back = (ImageView) findViewById(R.id.*go\_back*);  
 back.setOnClickListener(new View.OnClickListener()  
 {  
 @Override  
 public void onClick(View view)  
 {  
 Intent intent = new Intent(Del\_Any.this, Dashboard.class);  
 startActivity(intent);  
 finish();  
 }  
 });  
  
 recyclerView = findViewById(R.id.*recyclerView*);  
 databaseReference = FirebaseDatabase.*getInstance*().getReference("ElectionData");  
  
 recyclerView.setHasFixedSize(true);  
 recyclerView.setLayoutManager(new LinearLayoutManager(this));  
  
 list = new ArrayList<>();  
 myDelAnyAdapter = new MyDelAnyAdapter(this,list);  
 recyclerView.setAdapter(myDelAnyAdapter);  
  
 databaseReference.addValueEventListener(new ValueEventListener()  
 {  
 @Override  
 public void onDataChange(@NonNull DataSnapshot snapshot)  
 {  
 for(DataSnapshot dataSnapshot : snapshot.getChildren())  
 {  
 PreviousElectionData previousElectionData = dataSnapshot.getValue(PreviousElectionData.class);  
 list.add(previousElectionData);  
 }  
 myDelAnyAdapter.notifyDataSetChanged();  
 }  
  
 @Override  
 public void onCancelled(@NonNull DatabaseError error)  
 {  
  
 }  
 });  
 }  
}

## Election\_details.java

package com.example.votingsystem;  
  
import androidx.annotation.NonNull;  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.graphics.Bitmap;  
import android.graphics.BitmapFactory;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.ImageView;  
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.FirebaseDatabase;  
import com.google.firebase.storage.FileDownloadTask;  
import com.google.firebase.storage.FirebaseStorage;  
import com.google.firebase.storage.StorageReference;  
  
import java.io.File;  
import java.io.IOException;  
  
import de.hdodenhof.circleimageview.CircleImageView;  
  
public class Election\_details extends AppCompatActivity  
{  
 ImageView goBack;  
 CircleImageView image1, image2;  
 TextView tit, name1, name2, roll1, roll2, vote1, vote2;  
 Button btn1, btn2;  
  
 String Tit, V1, V2, r1, r2, n1, n2, I1, I2;  
 Integer getValue1, getValue2;  
 boolean voted = false;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState)  
 {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_election\_details);  
  
 tit = (TextView) findViewById(R.id.title\_election);  
 name1 = (TextView) findViewById(R.id.Name1);  
 name2 = (TextView) findViewById(R.id.Name2);  
 roll1 = (TextView) findViewById(R.id.Roll1);  
 roll2 = (TextView) findViewById(R.id.Roll2);  
 vote1 = (TextView) findViewById(R.id.Votes1);  
 vote2 = (TextView) findViewById(R.id.Votes2);  
 image1 = (CircleImageView) findViewById(R.id.image1);  
 image2 = (CircleImageView) findViewById(R.id.image2);  
 btn1 = (Button) findViewById(R.id.votesBtn1);  
 btn2 = (Button) findViewById(R.id.votesBtn2);  
  
 Bundle intent = getIntent().getExtras();  
 if(intent != null)  
 {  
 Tit = intent.getString("sendTitle");  
 n1 = intent.getString("sendName1");  
 n2 = intent.getString("sendName2");  
 r1 = intent.getString("sendRoll1");  
 r2 = intent.getString("sendRoll2");  
 V1 = intent.getString("sendVotes1");  
 V2 = intent.getString("sendVotes2");  
 I1 = intent.getString("sendImg1");  
 I2 = intent.getString("sendImg2");  
  
 tit.setText(Tit);  
 name1.setText(n1);  
 name2.setText(n2);  
 roll1.setText(r1);  
 roll2.setText(r2);  
 vote1.setText("Votes: " + V1);  
 vote2.setText("Votes: " + V2);  
 btn1.setText(n1);  
 btn2.setText(n2);  
  
 StorageReference storageReference = FirebaseStorage.getInstance().getReference(I1);  
 try{  
 File localfile = File.createTempFile("tempfile",".jpg");  
 storageReference.getFile(localfile)  
 .addOnSuccessListener(new OnSuccessListener<FileDownloadTask.TaskSnapshot>()  
 {  
 @Override  
 public void onSuccess(FileDownloadTask.TaskSnapshot taskSnapshot)  
 {  
 Bitmap bitmap = BitmapFactory.decodeFile(localfile.getAbsolutePath());  
 image1.setImageBitmap(bitmap);  
 }  
 }).addOnFailureListener(new OnFailureListener()  
 {  
 @Override  
 public void onFailure(@NonNull Exception e)  
 {  
  
 }  
 });  
 }catch (IOException e)  
 {  
 e.printStackTrace();  
 }  
  
 StorageReference storageReference2 = FirebaseStorage.getInstance().getReference(I2);  
 try{  
 File localfile = File.createTempFile("tempfile",".jpg");  
 storageReference2.getFile(localfile)  
 .addOnSuccessListener(new OnSuccessListener<FileDownloadTask.TaskSnapshot>()  
 {  
 @Override  
 public void onSuccess(FileDownloadTask.TaskSnapshot taskSnapshot)  
 {  
 Bitmap bitmap = BitmapFactory.decodeFile(localfile.getAbsolutePath());  
 image2.setImageBitmap(bitmap);  
 }  
 }).addOnFailureListener(new OnFailureListener()  
 {  
 @Override  
 public void onFailure(@NonNull Exception e)  
 {  
  
 }  
 });  
 }catch (IOException e)  
 {  
 e.printStackTrace();  
 }  
 }  
  
 getValue1 = Integer.*parseInt*(V1);  
 getValue2 = Integer.*parseInt*(V2);  
  
 goBack = (ImageView) findViewById(R.id.*go\_back*);  
 goBack.setOnClickListener(new View.OnClickListener()  
 {  
 @Override  
 public void onClick(View view)  
 {  
 Intent intent = new Intent(Election\_details.this, CurrentElections.class);  
 startActivity(intent);  
 }  
 });  
  
 btn1.setOnClickListener(new View.OnClickListener()  
 {  
 @Override  
 public void onClick(View view)  
 {  
 if(voted == true)  
 {  
 Toast.*makeText*(Election\_details.this, "Sorry, can't have multiple votes...", Toast.*LENGTH\_SHORT*).show();  
 }  
 else  
 {  
 voted = true;  
 getValue1 = getValue1 + 1;  
 vote1.setText("Votes: " + getValue1.toString());  
 Electiondata electiondata = new Electiondata();  
 electiondata.setVotes1(getValue1.toString());  
  
 int count = I1.length() - n1.length();  
 String temp = I1.substring(0,count-5);  
  
 FirebaseDatabase.getInstance().getReference("ElectionData")  
 .child(temp).child("Votes1")  
 .setValue(getValue1.toString()).addOnCompleteListener(new OnCompleteListener<Void>()  
 {  
 @Override  
 public void onComplete(@NonNull Task<Void> task)  
 {  
 if(task.isSuccessful())  
 {  
 Toast.makeText(Election\_details.this,"Successfully Voted...",Toast.LENGTH\_LONG).show();  
 }  
 else  
 {  
 Toast.makeText(Election\_details.this,"Error in Voting...",Toast.LENGTH\_LONG).show();  
 }  
 }  
 });  
 }  
 }  
 });  
 btn2.setOnClickListener(new View.OnClickListener()  
 {  
 @Override  
 public void onClick(View view)  
 {  
 if(voted == true)  
 {  
 Toast.makeText(Election\_details.this, "Sorry, can't have multiple votes...", Toast.LENGTH\_SHORT).show();  
 }  
 else  
 {  
 voted = true;  
 getValue2 = getValue2 + 1;  
 vote2.setText("Votes: " + getValue2.toString());  
 Electiondata electiondata = new Electiondata();  
 electiondata.setVotes2(getValue2.toString());  
  
 int count = I2.length() - n2.length();  
 String temp = I2.substring(0,count-5);  
  
 FirebaseDatabase.getInstance().getReference("ElectionData")  
 .child(temp).child("Votes2")  
 .setValue(getValue2.toString()).addOnCompleteListener(new OnCompleteListener<Void>()  
 {  
 @Override  
 public void onComplete(@NonNull Task<Void> task)  
 {  
 if(task.isSuccessful())  
 {  
 Toast.makeText(Election\_details.this,"Successfully Voted...",Toast.LENGTH\_LONG).show();  
 }  
 else  
 {  
 Toast.makeText(Election\_details.this,"Error in Voting...",Toast.LENGTH\_LONG).show();  
 }  
 }  
 });  
 }  
 }  
 });  
 }  
}

## Electiondata.java

package com.example.votingsystem;  
  
public class Electiondata  
{  
 public String Title, name1, name2, email1, email2, roll1, roll2, Votes1, Votes2, userID, Status, Img1, Img2;  
  
 public Electiondata()  
 {  
  
 }  
 public Electiondata(String title, String name1, String name2,  
 String email1, String email2, String roll1, String roll2,  
 String votes1, String votes2, String uID, String status,  
 String img1, String img2)  
 {  
 this.Title = title;  
 this.name1 = name1;  
 this.name2 = name2;  
 this.email1= email1;  
 this.email2= email2;  
 this.roll1 = roll1;  
 this.roll2 = roll2;  
 this.Votes1 = votes1;  
 this.Votes2 = votes2;  
 this.userID = uID;  
 this.Status = status;  
 this.Img1 = img1;  
 this.Img2 = img2;  
 }  
  
// public String getTitle() {  
// return Title;  
// }  
// public String getVotes1() {  
// return Votes1;  
// }  
// public String getVotes2() {  
// return Votes2;  
// }  
// public String getImg1() {  
// return Img1;  
// }  
// public String getImg2() {  
// return Img2;  
// }  
//  
// public void setTitle(String title) {  
// Title = title;  
// }  
 public void setVotes1(String votes1) {  
 Votes1 = votes1;  
 }  
 public void setVotes2(String votes2) {  
 Votes2 = votes2;  
 }  
// public void setImg1(String img1) {  
// Img1 = img1;  
// }  
// public void setImg2(String img2) {  
// Img2 = img2;  
// }  
}

## MainActivity.java

package com.example.votingsystem;  
  
import androidx.annotation.NonNull;  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.TextView;  
import android.widget.Toast;  
  
import com.google.android.gms.tasks.OnCompleteListener;  
import com.google.android.gms.tasks.Task;  
import com.google.android.material.textfield.TextInputEditText;  
import com.google.firebase.auth.AuthResult;  
import com.google.firebase.auth.FirebaseAuth;  
  
public class MainActivity extends AppCompatActivity  
{  
  
 TextInputEditText email;  
 TextInputEditText password;  
 TextView register\_now;  
 Button login\_btn;  
  
 private FirebaseAuth mAuth;  
  
 public void to\_Register(View view)  
 {  
 register\_now = (TextView) findViewById(R.id.to\_register);  
  
 register\_now.setOnClickListener(new View.OnClickListener()  
 {  
 @Override  
 public void onClick(View view)  
 {  
 Intent intent = new Intent(MainActivity.this, Register.class);  
 startActivity(intent);  
 }  
 });  
 }  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState)  
 {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_main);  
  
 mAuth = FirebaseAuth.getInstance();  
  
 email = (TextInputEditText) findViewById(R.id.email);  
 password = (TextInputEditText) findViewById(R.id.password);  
 login\_btn = (Button) findViewById(R.id.loginbtn);  
  
  
 login\_btn.setOnClickListener(new View.OnClickListener()  
 {  
 @Override  
 public void onClick(View view)  
 {  
 String mail = email.getText().toString().trim();  
 String pass = password.getText().toString().trim();  
  
 if(mail.isEmpty() && pass.isEmpty())  
 {  
 email.setError("");  
 password.setError("");  
 Toast.makeText(MainActivity.this, "Error: Enter Email & Password", Toast.LENGTH\_SHORT).show();  
 }  
 else if(mail.isEmpty())  
 {  
 email.setError("");  
 Toast.makeText(MainActivity.this, "Error: Enter Email", Toast.LENGTH\_SHORT).show();  
 }  
 else if(pass.isEmpty())  
 {  
 password.setError("");  
 Toast.makeText(MainActivity.this, "Error: Enter Password", Toast.LENGTH\_SHORT).show();  
 }  
 else  
 {  
 userLogin(mail,pass);  
 }  
 }  
  
 private void userLogin(String mail, String pass)  
 {  
 mAuth.signInWithEmailAndPassword(mail, pass)  
 .addOnCompleteListener(new OnCompleteListener<AuthResult>() {  
 @Override  
 public void onComplete(@NonNull Task<AuthResult> task)  
 {  
 if(task.isSuccessful())  
 {  
 Intent intent = new Intent(MainActivity.this, Dashboard.class);  
 startActivity(intent);  
 finish();  
 }  
 else  
 {  
 Toast.makeText(MainActivity.this, "Failed to Login, Please Check Entered Credentials... ", Toast.LENGTH\_LONG).show();  
 }  
 }  
 });  
 }  
 });  
  
 }  
}

## MyChangePermAdapter.java

package com.example.votingsystem;  
  
import android.annotation.SuppressLint;  
import android.app.AlertDialog;  
import android.content.Context;  
import android.content.DialogInterface;  
import android.content.Intent;  
import android.view.LayoutInflater;  
import android.view.View;  
import android.view.ViewGroup;  
import android.widget.Button;  
import android.widget.LinearLayout;  
import android.widget.TextView;  
import android.widget.Toast;  
  
import androidx.annotation.NonNull;  
import androidx.recyclerview.widget.RecyclerView;  
  
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.auth.FirebaseAuth;  
import com.google.firebase.auth.FirebaseUser;  
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 com.google.firebase.storage.FirebaseStorage;  
import com.google.firebase.storage.StorageReference;  
import com.google.firebase.storage.UploadTask;  
  
import java.util.ArrayList;  
  
public class MyChangePermAdapter extends RecyclerView.Adapter<MyChangePermAdapter.MyChangePermViewHolder>  
{  
 Context context;  
 ArrayList<ChangePermissionData> list;  
  
 public MyChangePermAdapter(Context context, ArrayList<ChangePermissionData> list)  
 {  
 this.context = context;  
 this.list = list;  
 }  
  
 @NonNull  
 @Override  
 public MyChangePermViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int viewType)  
 {  
 View view = LayoutInflater.from(context).inflate(R.layout.change\_perm,parent,false);  
  
 return new MyChangePermViewHolder(view);  
 }  
  
 @Override  
 public void onBindViewHolder(@NonNull MyChangePermViewHolder holder, @SuppressLint("RecyclerView") int position)  
 {  
 ChangePermissionData changePermissionData = list.get(position);  
 holder.Fname.setText(changePermissionData.getFullName());  
 holder.sec.setText("Section: " + changePermissionData.getSection());  
 holder.sem.setText("Semester: " + changePermissionData.getSemester());  
 holder.ses.setText("Session: " + changePermissionData.getSession());  
 holder.type.setText("TYPE: " + changePermissionData.getType());  
  
 holder.options\_Btn.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 AlertDialog.Builder builder = new AlertDialog.Builder(context);  
 String[] options = {"To Student", "To Faculty"};  
 builder.setItems(options, new DialogInterface.OnClickListener() {  
 @Override  
 public void onClick(DialogInterface dialogInterface, int i)  
 {  
 if(i == 0)  
 {  
 ChangePermissionData changePermissionData1 = list.get(position);  
 changePermissionData1.setType("Student");  
 FirebaseDatabase.getInstance().getReference("Users").child(changePermissionData1.getKey())  
 .setValue(changePermissionData1).addOnCompleteListener(new OnCompleteListener<Void>() {  
 @Override  
 public void onComplete(@NonNull Task<Void> task)  
 {  
 if(task.isSuccessful())  
 {  
 Toast.makeText(context,"Successfully Created...",Toast.LENGTH\_LONG).show();  
 }  
 else  
 {  
 Toast.makeText(context,"Error in Data Entry...",Toast.LENGTH\_LONG).show();  
 }  
 }  
 });  
 }  
 else  
 {  
 changePermissionData.setType("Faculty");  
 FirebaseDatabase.getInstance().getReference("Users").child(changePermissionData.getKey())  
 .setValue(changePermissionData).addOnCompleteListener(new OnCompleteListener<Void>() {  
 @Override  
 public void onComplete(@NonNull Task<Void> task)  
 {  
 if(task.isSuccessful())  
 {  
 Toast.*makeText*(context,"Successfully Created...",Toast.*LENGTH\_LONG*).show();  
 }  
 else  
 {  
 Toast.*makeText*(context,"Error in Data Entry...",Toast.*LENGTH\_LONG*).show();  
 }  
 }  
 });  
 }  
 }  
 });  
 builder.create().show();  
 }  
 });  
 }  
  
 @Override  
 public int getItemCount()  
 {  
 return list.size();  
 }  
  
 public static class MyChangePermViewHolder extends RecyclerView.ViewHolder  
 {  
 TextView Fname;  
 TextView sec;  
 TextView sem;  
 TextView ses;  
 TextView type;  
 Button options\_Btn;  
  
 public MyChangePermViewHolder(@NonNull View itemView)  
 {  
 super(itemView);  
  
 Fname = (TextView) itemView.findViewById(R.id.Fullname);  
 sec = (TextView) itemView.findViewById(R.id.section);  
 sem = (TextView) itemView.findViewById(R.id.semester);  
 ses = (TextView) itemView.findViewById(R.id.session);  
 type= (TextView) itemView.findViewById(R.id.Type);  
 options\_Btn = (Button) itemView.findViewById(R.id.options);  
  
 }  
 }  
}

## MyDelAnyAdapter.java

package com.example.votingsystem;  
  
import android.annotation.SuppressLint;  
import android.app.AlertDialog;  
import android.content.Context;  
import android.content.DialogInterface;  
import android.content.Intent;  
import android.view.LayoutInflater;  
import android.view.View;  
import android.view.ViewGroup;  
import android.widget.Button;  
import android.widget.TextView;  
import android.widget.Toast;  
  
import androidx.annotation.NonNull;  
import androidx.recyclerview.widget.RecyclerView;  
  
import com.google.android.gms.tasks.OnFailureListener;  
import com.google.android.gms.tasks.OnSuccessListener;  
import com.google.firebase.auth.FirebaseAuth;  
import com.google.firebase.auth.FirebaseUser;  
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 com.google.firebase.storage.FirebaseStorage;  
import com.google.firebase.storage.StorageReference;  
import com.google.firebase.storage.UploadTask;  
  
import java.util.ArrayList;  
  
public class MyDelAnyAdapter extends RecyclerView.Adapter<MyDelAnyAdapter.MyDelAnyViewHolder>  
{  
 Context context;  
 ArrayList<PreviousElectionData> list;  
 String pos;  
  
  
 public MyDelAnyAdapter(Context context, ArrayList<PreviousElectionData> list)  
 {  
 this.context = context;  
 this.list = list;  
 }  
  
 @NonNull  
 @Override  
 public MyDelAnyViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int viewType)  
 {  
 View view = LayoutInflater.*from*(context).inflate(R.layout.*del\_any\_election*,parent,false);  
  
 return new MyDelAnyViewHolder(view);  
 }  
  
 @Override  
 public void onBindViewHolder(@NonNull MyDelAnyViewHolder holder, @SuppressLint("RecyclerView") int position)  
 {  
 PreviousElectionData previousElectionData = list.get(position);  
 holder.title.setText(previousElectionData.getTitle());  
 holder.votes1.setText("Votes of Person 1: " + previousElectionData.getVotes1());  
 holder.votes2.setText("Votes of Person 2: " + previousElectionData.getVotes2());  
 holder.status.setText("STATUS: " + previousElectionData.getStatus());  
  
 holder.del.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 PreviousElectionData previous = list.get(position);  
  
 //Delete  
 StorageReference sto1 = FirebaseStorage.getInstance().getReference(previous.getImg1());  
 sto1.delete();  
 StorageReference sto2 = FirebaseStorage.getInstance().getReference(previous.getImg2());  
 sto2.delete();  
  
 DatabaseReference ref = FirebaseDatabase.getInstance().getReference().child("ElectionData");  
 int count = previous.getImg1().length() - previous.getName1().length();  
  
 String name = previous.getImg1().substring(0,count-5);  
  
 ref.child(name).removeValue();  
 list.remove(list.get(position));  
 Toast.makeText(context, "Deleted...", Toast.LENGTH\_SHORT).show();  
 notifyDataSetChanged();  
 }  
 });  
 }  
  
 @Override  
 public int getItemCount()  
 {  
 return list.size();  
 }  
  
 public static class MyDelAnyViewHolder extends RecyclerView.ViewHolder  
 {  
 TextView title;  
 TextView votes1;  
 TextView votes2;  
 TextView status;  
 Button del;  
  
 public MyDelAnyViewHolder(@NonNull View itemView)  
 {  
 super(itemView);  
  
 title = (TextView) itemView.findViewById(R.id.title\_election);  
 votes1 = (TextView) itemView.findViewById(R.id.votes1);  
 votes2 = (TextView) itemView.findViewById(R.id.votes2);  
 status = (TextView) itemView.findViewById(R.id.status);  
 del = (Button) itemView.findViewById(R.id.delete);  
  
 }  
 }  
}

## MyPreviousElectionAdapter.java

package com.example.votingsystem;  
  
import android.annotation.SuppressLint;  
import android.app.AlertDialog;  
import android.content.Context;  
import android.content.DialogInterface;  
import android.content.Intent;  
import android.view.LayoutInflater;  
import android.view.View;  
import android.view.ViewGroup;  
import android.widget.Button;  
import android.widget.LinearLayout;  
import android.widget.TextView;  
import android.widget.Toast;  
  
import androidx.annotation.NonNull;  
import androidx.recyclerview.widget.RecyclerView;  
  
import com.google.android.gms.tasks.OnFailureListener;  
import com.google.android.gms.tasks.OnSuccessListener;  
import com.google.firebase.auth.FirebaseAuth;  
import com.google.firebase.auth.FirebaseUser;  
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 com.google.firebase.storage.FirebaseStorage;  
import com.google.firebase.storage.StorageReference;  
import com.google.firebase.storage.UploadTask;  
  
import java.util.ArrayList;  
  
public class MyPreviousElectionAdapter extends RecyclerView.Adapter<MyPreviousElectionAdapter.MyPreviousElectionViewHolder>  
{  
 Context context;  
 ArrayList<PreviousElectionData> list;  
 String pos;  
  
 private FirebaseUser mUser;  
 private DatabaseReference reference;  
 private String usID;  
  
 public MyPreviousElectionAdapter(Context context, ArrayList<PreviousElectionData> list)  
 {  
 this.context = context;  
 this.list = list;  
 }  
  
 @NonNull  
 @Override  
 public MyPreviousElectionViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int viewType)  
 {  
 View view = LayoutInflater.from(context).inflate(R.layout.prev\_elections,parent,false);  
  
 return new MyPreviousElectionViewHolder(view);  
 }  
  
 @Override  
 public void onBindViewHolder(@NonNull MyPreviousElectionViewHolder holder, @SuppressLint("RecyclerView") int position)  
 {  
 PreviousElectionData previousElectionData = list.get(position);  
 holder.title.setText(previousElectionData.getTitle());  
 holder.votes1.setText("Votes of Person 1: " + previousElectionData.getVotes1());  
 holder.votes2.setText("Votes of Person 2: " + previousElectionData.getVotes2());  
 holder.status.setText("STATUS: " + previousElectionData.getStatus());  
  
 holder.options\_Btn.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 PreviousElectionData previous = list.get(position);  
 String Tit = previous.getTitle();  
 String V1 = previous.getVotes1();  
 String V2 = previous.getVotes2();  
 String uID = previous.getUserID();  
 String Stat = previous.getStatus();  
 String I1 = previous.getImg1();  
 String I2 = previous.getImg2();  
 String e1 = previous.getEmail1();  
 String e2 = previous.getEmail2();  
 String n1 = previous.getName1();  
 String n2 = previous.getName2();  
 String r1 = previous.getRoll1();  
 String r2 = previous.getRoll2();  
 pos = Integer.toString(position);  
  
 AlertDialog.Builder builder = new AlertDialog.Builder(context);  
 String[] options = {"Update", "Delete"};  
 builder.setItems(options, new DialogInterface.OnClickListener() {  
 @Override  
 public void onClick(DialogInterface dialogInterface, int i)  
 {  
 if(i == 0)  
 {  
 //Update  
 Intent intent = new Intent(context, AddNewElection.class);  
 intent.putExtra("Tit", Tit);  
 intent.putExtra("V1", V1);  
 intent.putExtra("V2", V2);  
 intent.putExtra("uID", uID);  
 intent.putExtra("Stat", Stat);  
 intent.putExtra("e1", e1);  
 intent.putExtra("e2", e2);  
 intent.putExtra("n1", n1);  
 intent.putExtra("n2", n2);  
 intent.putExtra("r1", r1);  
 intent.putExtra("r2", r2);  
 intent.putExtra("I1", I1);  
 intent.putExtra("I2", I2);  
 intent.putExtra("Position", pos);  
 context.startActivity(intent);  
 }  
 if(i == 1)  
 {  
 //Delete  
 StorageReference sto1 = FirebaseStorage.getInstance().getReference(previous.getImg1());  
 sto1.delete();  
 StorageReference sto2 = FirebaseStorage.getInstance().getReference(previous.getImg2());  
 sto2.delete();  
  
 DatabaseReference ref = FirebaseDatabase.getInstance().getReference().child("ElectionData");  
 int count = previous.getImg1().length() - previous.getName1().length();  
  
 String name = previous.getImg1().substring(0,count-5);  
  
 ref.child(name).removeValue();  
 list.remove(list.get(position));  
 Toast.makeText(context, "Deleted...", Toast.LENGTH\_SHORT).show();  
 notifyDataSetChanged();  
 }  
 }  
 });  
 builder.create().show();  
 }  
 });  
  
 holder.linear.setOnClickListener(new View.OnClickListener()  
 {  
 @Override  
 public void onClick(View view)  
 {  
// CurrElectionData curr = list.get(position);  
 Intent intent = new Intent(context, Election\_details.class);  
 intent.putExtra("sendTitle", previousElectionData.getTitle());  
 intent.putExtra("sendImg1", previousElectionData.getImg1());  
 intent.putExtra("sendImg2", previousElectionData.getImg2());  
 intent.putExtra("sendName1", previousElectionData.getName1());  
 intent.putExtra("sendName2", previousElectionData.getName2());  
 intent.putExtra("sendRoll1", previousElectionData.getRoll1());  
 intent.putExtra("sendRoll2", previousElectionData.getRoll2());  
 intent.putExtra("sendVotes1", previousElectionData.getVotes1());  
 intent.putExtra("sendVotes2", previousElectionData.getVotes2());  
 intent.setFlags(Intent.FLAG\_ACTIVITY\_NEW\_TASK);  
  
 context.startActivity(intent);  
 }  
 });  
 }  
  
 @Override  
 public int getItemCount()  
 {  
 return list.size();  
 }  
  
 public static class MyPreviousElectionViewHolder extends RecyclerView.ViewHolder  
 {  
 TextView title;  
 TextView votes1;  
 TextView votes2;  
 TextView status;  
 Button options\_Btn;  
 LinearLayout linear;  
  
 public MyPreviousElectionViewHolder(@NonNull View itemView)  
 {  
 super(itemView);  
  
 title = (TextView) itemView.findViewById(R.id.*title\_election*);  
 votes1 = (TextView) itemView.findViewById(R.id.votes1);  
 votes2 = (TextView) itemView.findViewById(R.id.votes2);  
 status = (TextView) itemView.findViewById(R.id.status);  
 options\_Btn= (Button) itemView.findViewById(R.id.options);  
 linear = (LinearLayout) itemView.findViewById(R.id.linearlayout);  
  
 }  
 }  
}

## PreviousElectionData.java

package com.example.votingsystem;  
  
public class PreviousElectionData  
{  
 String Title;  
 String Votes1;  
 String Votes2;  
 String userID;  
 String Status;  
 String Img1;  
 String Img2;  
 String email1;  
 String email2;  
 String name1;  
 String name2;  
 String roll1;  
 String roll2;  
  
 public String getTitle()  
 {  
 return Title;  
 }  
 public String getVotes1()  
 {  
 return Votes1;  
 }  
 public String getVotes2()  
 {  
 return Votes2;  
 }  
 public String getUserID() {  
 return userID;  
 }  
 public String getStatus() {  
 return Status;  
 }  
  
 public String getImg1() {  
 return Img1;  
 }  
 public String getImg2() {  
 return Img2;  
 }  
 public String getRoll1() {  
 return roll1;  
 }  
 public String getRoll2() {  
 return roll2;  
 }  
 public String getEmail1() {  
 return email1;  
 }  
 public String getEmail2() {  
 return email2;  
 }  
 public String getName1() {  
 return name1;  
 }  
 public String getName2() {  
 return name2;  
 }  
}

## Register.java

package com.example.votingsystem;  
  
import androidx.annotation.NonNull;  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.text.TextUtils;  
import android.util.Patterns;  
import android.view.View;  
import android.widget.ArrayAdapter;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.RadioButton;  
import android.widget.Spinner;  
import android.widget.Toast;  
  
import com.google.android.gms.tasks.OnCompleteListener;  
import com.google.android.gms.tasks.Task;  
import com.google.android.material.textfield.TextInputEditText;  
import com.google.firebase.auth.AuthResult;  
import com.google.firebase.auth.FirebaseAuth;  
import com.google.firebase.database.FirebaseDatabase;  
  
public class Register extends AppCompatActivity  
{  
 TextInputEditText name;  
 TextInputEditText email;  
 TextInputEditText pass;  
 TextInputEditText age;  
 Button submit;  
 Spinner semester, section, session;  
 RadioButton asFac, asStud;  
 String type = "";  
  
 ArrayAdapter sem;  
 ArrayAdapter sec;  
 ArrayAdapter ses;  
  
 private FirebaseAuth mAuth;  
// private ProgressDialog progressDialog;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState)  
 {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_register);  
  
 mAuth = FirebaseAuth.getInstance();  
  
 name = (TextInputEditText)findViewById(R.id.Full\_Name);  
 email = (TextInputEditText)findViewById(R.id.Email);  
 pass = (TextInputEditText)findViewById(R.id.*Password*);  
 age = (TextInputEditText)findViewById(R.id.*Age*);  
  
 semester = (Spinner) findViewById(R.id.*Semester*);  
 section = (Spinner) findViewById(R.id.*Section*);  
 session = (Spinner) findViewById(R.id.*Session*);  
 asFac = (RadioButton) findViewById(R.id.*asFaculty*);  
 asStud = (RadioButton) findViewById(R.id.*asStudent*);  
  
 asFac.setVisibility(View.*GONE*);  
 asStud.setVisibility(View.*GONE*);  
  
 asFac.setOnClickListener(new View.OnClickListener()  
 {  
 @Override  
 public void onClick(View view)  
 {  
 asStud.setChecked(false);  
 type = "Faculty";  
 }  
 });  
 asStud.setOnClickListener(new View.OnClickListener()  
 {  
 @Override  
 public void onClick(View view)  
 {  
 asFac.setChecked(false);  
 type = "Student";  
 }  
 });  
  
  
 String[] seme = {"1st", "2nd", "3rd", "4th", "5th", "6th", "7th", "8th"};  
 sem = new ArrayAdapter(this,R.layout.support\_simple\_spinner\_dropdown\_item,seme);  
 semester.setAdapter(sem);  
  
 String[] sect = {"A", "B", "C", "D"};  
 sec = new ArrayAdapter(this,R.layout.support\_simple\_spinner\_dropdown\_item,sect);  
 section.setAdapter(sec);  
  
 String[] sess = {"F15", "F16", "F17", "F18", "F19", "F20", "F21"};  
 ses = new ArrayAdapter(this,R.layout.support\_simple\_spinner\_dropdown\_item,sess);  
 session.setAdapter(ses);  
  
 submit = (Button) findViewById(R.id.submit\_btn);  
 submit.setOnClickListener(new View.OnClickListener()  
 {  
 @Override  
 public void onClick(View view)  
 {  
 boolean check = false;  
  
 if(email.getText().toString().trim().isEmpty())  
 {  
 check = true;  
 email.setError("Please Enter Email...");  
 email.requestFocus();  
 }  
 else  
 {  
 check = false;  
 }  
  
 if(pass.getText().toString().trim().isEmpty())  
 {  
 check = true;  
 pass.setError("Please Enter Password...");  
 pass.requestFocus();  
 }  
 else  
 {  
 check = false;  
 }  
  
 if(name.getText().toString().trim().isEmpty())  
 {  
 check = true;  
 name.setError("Please Enter Your Name...");  
 }  
 else  
 {  
 check = false;  
 }  
  
 if(age.getText().toString().trim().isEmpty())  
 {  
 check = true;  
 age.setError("Please Enter Your Age...");  
 }  
 else  
 {  
 check = false;  
 }  
  
 if(type.equals(""))  
 {  
 Toast.makeText(Register.this, "Select Type...", Toast.LENGTH\_SHORT).show();  
 }  
  
 if(check == false)  
 {  
 String mail = email.getText().toString().trim();  
 String pas = pass.getText().toString().trim();  
 String fName = name.getText().toString().trim();  
 String Age = age.getText().toString().trim();  
 String Sem = semester.getSelectedItem().toString();  
 String Sec = section.getSelectedItem().toString();  
 String Ses = session.getSelectedItem().toString();  
 String Img = fName + ".jpg";  
  
 Register(fName, Age, mail, pas, Sec, Ses, Sem, type, Img);  
 }  
 }  
 });  
 }  
  
 public void Register(String fullName, String age, String mail, String pass,  
 String Sec, String Ses, String Sem, String Type, String img)  
 {  
 mAuth.createUserWithEmailAndPassword(mail, pass)  
 .addOnCompleteListener(new OnCompleteListener<AuthResult>() {  
 @Override  
 public void onComplete(@NonNull Task<AuthResult> task)  
 {  
 if(task.isSuccessful())  
 {  
 Userdata user = new  
 Userdata(fullName, age, mail, pass, Sec, Ses, Sem, Type, img, FirebaseAuth.getInstance().getCurrentUser().getUid());  
  
 // Users is a Database Table  
 FirebaseDatabase.getInstance().getReference("Users")  
 .child(FirebaseAuth.getInstance().getCurrentUser().getUid())  
 .setValue(user).addOnCompleteListener(new OnCompleteListener<Void>() {  
 @Override  
 public void onComplete(@NonNull Task<Void> task)  
 {  
 if(task.isSuccessful())  
 {  
 Toast.makeText(Register.this,"Successfully registered...",Toast.LENGTH\_LONG).show();  
 }  
 else  
 {  
 Toast.makeText(Register.this,"Registration Error...",Toast.LENGTH\_LONG).show();  
 }  
 }  
 });  
 }  
 else  
 {  
 Toast.makeText(Register.this,"Registration Error...",Toast.LENGTH\_LONG).show();  
 }  
 }  
 });  
 }  
  
  
}

## Userdata.java

package com.example.votingsystem;  
  
public class Userdata  
{  
 public String fullName, age, email, password, section, session, semester, type, Img, Key;  
  
 public Userdata()  
 {  
  
 }  
  
 public Userdata(String fullName, String age, String email, String password, String section, String session, String semester, String type, String img, String key)  
 {  
 this.fullName = fullName;  
 this.age = age;  
 this.email = email;  
 this.password = password;  
 this.section = section;  
 this.session = session;  
 this.semester = semester;  
 this.type = type;  
 this.Img = img;  
 this.Key = key;  
 }  
  
 public Userdata(String fullName, String age, String Img, String password)  
 {  
 this.fullName = fullName;  
 this.age = age;  
 this.email = email;  
 this.password = password;  
 }  
}

## userSettings.java

package com.example.votingsystem;  
  
import androidx.annotation.NonNull;  
import androidx.annotation.Nullable;  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.app.Activity;  
import android.content.Intent;  
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;  
  
import com.google.android.gms.tasks.OnFailureListener;  
import com.google.android.gms.tasks.OnSuccessListener;  
import com.google.android.material.textfield.TextInputEditText;  
import com.google.firebase.auth.FirebaseAuth;  
import com.google.firebase.auth.FirebaseUser;  
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 com.google.firebase.storage.FirebaseStorage;  
import com.google.firebase.storage.StorageReference;  
import com.google.firebase.storage.UploadTask;  
  
import de.hdodenhof.circleimageview.CircleImageView;  
  
public class userSettings extends AppCompatActivity  
{  
 DatabaseReference databaseReference;  
 StorageReference storageReference;  
 FirebaseUser mUser;  
 String uID;  
  
 CircleImageView imageV;  
 TextInputEditText Name;  
 TextInputEditText Age;  
 ImageView back;  
 Button submit;  
 String imgName = "";  
  
 Uri imageURI;  
 boolean uploaded = false;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState)  
 {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_user\_settings);  
  
 imageV = (CircleImageView) findViewById(R.id.imageV);  
 Name = (TextInputEditText) findViewById(R.id.fName);  
 Age = (TextInputEditText) findViewById(R.id.age);  
 back = (ImageView) findViewById(R.id.go\_back);  
 submit = (Button) findViewById(R.id.save\_changes);  
  
 storageReference = FirebaseStorage.getInstance().getReference();  
  
 imageV.setOnClickListener(new View.OnClickListener()  
 {  
 @Override  
 public void onClick(View view)  
 {  
 Intent openGallery = new Intent(Intent.ACTION\_PICK, MediaStore.Images.Media.EXTERNAL\_CONTENT\_URI);  
 startActivityForResult(openGallery, 100);  
 }  
 });  
  
 submit.setOnClickListener(new View.OnClickListener()  
 {  
 @Override  
 public void onClick(View view)  
 {  
 boolean check = false;  
 if(Name.getText().toString().trim().isEmpty())  
 {  
 Name.setError("Please Enter Name...");  
 Name.requestFocus();  
 check = true;  
 }  
 else  
 {  
 check = false;  
 }  
  
 if(Age.getText().toString().trim().isEmpty())  
 {  
 Age.setError("Please Enter Age...");  
 Age.requestFocus();  
 check = true;  
 }  
 else  
 {  
 check = false;  
 }  
  
 if(uploaded == false)  
 {  
 check = true;  
 Toast.makeText(userSettings.this, "Please Upload Profile Picture...", Toast.LENGTH\_SHORT).show();  
 }  
 else  
 {  
 check = false;  
 }  
  
 if(check == false)  
 {  
 String fName = Name.getText().toString().trim();  
 String age = Age.getText().toString().trim();  
  
 mUser = FirebaseAuth.getInstance().getCurrentUser();  
 uID = mUser.getUid();  
 databaseReference = FirebaseDatabase.getInstance().getReference("Users");  
 databaseReference.child(uID).addValueEventListener(new ValueEventListener() {  
 @Override  
 public void onDataChange(@NonNull DataSnapshot snapshot)  
 {  
 Userdata userProfile = snapshot.getValue(Userdata.class);  
 if(userProfile != null)  
 {  
 imgName = userProfile.fullName + ".jpg";  
  
 StorageReference fileRef1 = storageReference.child(imgName);  
 fileRef1.putFile(imageURI).addOnSuccessListener(new OnSuccessListener<UploadTask.TaskSnapshot>()  
 {  
 @Override  
 public void onSuccess(UploadTask.TaskSnapshot taskSnapshot)  
 {  
 Toast.makeText(userSettings.this, "Updated Successfully...", Toast.LENGTH\_SHORT).show();  
 }  
 }).addOnFailureListener(new OnFailureListener()  
 {  
 @Override  
 public void onFailure(@NonNull Exception e)  
 {  
  
 }  
 });  
  
 }  
 }  
  
 @Override  
 public void onCancelled(@NonNull DatabaseError error)  
 {  
  
 }  
 });  
 }  
 }  
 });  
  
 back.setOnClickListener(new View.OnClickListener()  
 {  
 @Override  
 public void onClick(View view)  
 {  
 Intent intent = new Intent(userSettings.this, Dashboard.class);  
 startActivity(intent);  
 }  
 });  
 }  
  
 @Override  
 protected void onActivityResult(int requestCode, int resultCode, @Nullable Intent data)  
 {  
 super.onActivityResult(requestCode, resultCode, data);  
 if(requestCode == 100)  
 {  
 if(resultCode == Activity.RESULT\_OK)  
 {  
 imageURI = data.getData();  
 imageV.setImageURI(imageURI);  
 uploaded = true;  
 }  
 }  
 }  
}

# Chapter 4

# Result

















