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| package com.example.itps\_applicant\_app;  import androidx.appcompat.app.AppCompatActivity; import androidx.annotation.NonNull; import androidx.appcompat.app.AppCompatActivity; import androidx.cardview.widget.CardView; import android.content.Intent; import android.os.Bundle; import android.util.Log; import android.view.View; import android.widget.ImageView; import android.widget.TextView; import com.google.firebase.auth.FirebaseAuth; 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.Map; import java.util.Objects;  import static android.content.ContentValues.*TAG*;   public class dashboard extends AppCompatActivity {   TextView fullname;  CardView c1, c2,c3;  ImageView widget;  FirebaseDatabase database = FirebaseDatabase.*getInstance*();  FirebaseDatabase databaseReference;  FirebaseDatabase Dbase = FirebaseDatabase.*getInstance*();  String UID = Objects.*requireNonNull*(FirebaseAuth.*getInstance*().getCurrentUser()).getUid();    @Override  protected void onCreate(Bundle savedInstanceState) {  super.onCreate(savedInstanceState);  setContentView(R.layout.*activity\_dashboard*);   fullname = findViewById(R.id.textTitle);  widget = findViewById(R.id.widget);  c1 = findViewById(R.id.card1);  c2 = findViewById(R.id.card2);  c3 = findViewById(R.id.card3);  databaseReference = FirebaseDatabase.getInstance();      DatabaseReference myref = Dbase.getReference("users/" + UID);   myref.addValueEventListener(new ValueEventListener() {  @Override  public void onDataChange(@NonNull DataSnapshot snapshot) {   usermodel user = snapshot.getValue(usermodel.class);  assert user != null;  String name = user.getFullname();  fullname.setText(name);    }   @Override  public void onCancelled(@NonNull DatabaseError error) {   }  });     widget.setOnClickListener(new View.OnClickListener() {   @Override  public void onClick(View v) {  startActivity(new Intent(dashboard.this, setting.class));  }  });   c1.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View v) {  startActivity(new Intent(dashboard.this, profile.class));  }  });   c2.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View v) {  startActivity(new Intent(dashboard.this, request.class));  }  });     c3.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View v) {  //startActivity(new Intent(MainActivity.this, activityHistory.class));  startActivity(new Intent(dashboard.this, status.class));  }  });    } } |

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| package com.example.itps\_applicant\_app;  import android.app.Activity; import android.content.Intent; import android.net.Uri; import android.os.Bundle; import android.provider.MediaStore; import android.util.Log; import android.view.View; import android.widget.Button; import android.widget.EditText; import android.widget.ImageView; import android.widget.Toast; import androidx.annotation.NonNull; import androidx.appcompat.app.AlertDialog; import androidx.appcompat.app.AppCompatActivity; 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.DatabaseReference; import com.google.firebase.database.FirebaseDatabase; import com.google.firebase.storage.FirebaseStorage; import com.google.firebase.storage.StorageReference; import com.google.firebase.storage.UploadTask; import com.squareup.picasso.Picasso;  import java.util.Objects;  public class editprofilepage extends AppCompatActivity {   DatabaseReference databaseReference = FirebaseDatabase.*getInstance*().getReferenceFromUrl("https://itps-1c7c7-default-rtdb.asia-southeast1.firebasedatabase.app/");  String UID = Objects.*requireNonNull*(FirebaseAuth.*getInstance*().getCurrentUser()).getUid(); // edited  FirebaseUser user = FirebaseAuth.*getInstance*().getCurrentUser(); //edited  EditText profileFullName, profileEmail, profilePhone;  ImageView profileImageView;  FirebaseAuth fAuth;  Button saveBtn, ChgPassBtn, ChgImgBtn;  StorageReference storageReference = FirebaseStorage.*getInstance*().getReference();    @Override  protected void onCreate(Bundle savedInstanceState) {  super.onCreate(savedInstanceState);  setContentView(R.layout.*activity\_editprofilepage*);   ChgPassBtn = findViewById(R.id.*ChgPassBtn*);  ChgImgBtn = findViewById(R.id.*ChgImgBtn*);  profileFullName = findViewById(R.id.*fullnametv*);  profilePhone = findViewById(R.id.*phoneTv*);  profileImageView = findViewById(R.id.*imageView2*);  saveBtn = findViewById(R.id.*saveBtn*);  profileEmail = findViewById(R.id.*emailtv*);  fAuth = FirebaseAuth.*getInstance*();   StorageReference profileRef = storageReference.child("users/"+fAuth.getCurrentUser().getUid()+"profile.jpg");  profileRef.getDownloadUrl().addOnSuccessListener(new OnSuccessListener<Uri>() {  @Override  public void onSuccess(Uri uri) {  Picasso.*get*().load(uri).into(profileImageView);  }  });     //get data once  databaseReference.child("users").child(UID).get().addOnCompleteListener(task -> {  if (!task.isSuccessful()) {  Log.*e*("firebase", "Error getting data", task.getException());  } else {  //Log.d("firebase", String.valueOf(task.getResult().getValue()));  usermodel userData = Objects.*requireNonNull*(task.getResult()).getValue(usermodel.class);  assert userData != null;  profileFullName.setText(userData.getFullname());  profileEmail.setText(userData.getemail());  profilePhone.setText(userData.getPhone());  //add get profile image example provided below  //profilePicture.setImageURI(userData.getProfilePicture());  //to use this, u need to modify usermodel class by adding this  //private Uri profilePicture;  //public usermodel(....., Uri profilePicture){  //......;  // this.profilePicture = profilePicture;  //}  //public Uri getProfilePicture(){ return profilePicture;}  }  });   saveBtn.setOnClickListener(v -> {  if (profileFullName.getText().toString().isEmpty() || profileEmail.getText().toString().isEmpty() || profilePhone.getText().toString().isEmpty()) {  Toast.*makeText*(editprofilepage.this, "One or Many fields are empty.", Toast.*LENGTH\_SHORT*).show();  return;  }   final String email = profileEmail.getText().toString();  user.updateEmail(email).addOnSuccessListener(unused -> {  Toast.*makeText*(editprofilepage.this, "saved", Toast.*LENGTH\_SHORT*).show();  //update database after done update email  databaseReference.child("users").child(user.getUid()).child("fullname").setValue(profileFullName.getText().toString());  databaseReference.child("users").child(user.getUid()).child("email").setValue(email);  databaseReference.child("users").child(user.getUid()).child("phone").setValue(profilePhone.getText().toString());  // Toast.makeText(editprofilepage.this, "Profile Updated", Toast.LENGTH\_SHORT).show();  // startActivity(new Intent(getApplicationContext(), MainActivity.class));  // finish();  }).addOnFailureListener(e -> Toast.*makeText*(editprofilepage.this, e.getMessage(), Toast.*LENGTH\_SHORT*).show()); // profileEmail.setText(email); // profileFullName.setText(fullName); // profilePhone.setText(phone); // Log.d(TAG, "onCreate: " + fullName + " " + email + " " + phone);  });   ChgImgBtn.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View v) {  Intent openGalleryIntent = new Intent(Intent.*ACTION\_PICK*, MediaStore.Images.Media.*EXTERNAL\_CONTENT\_URI*);  startActivityForResult(openGalleryIntent,1000);  }  });   ChgPassBtn.setOnClickListener(v -> {  //password reset or change password?  final EditText resetPassword = new EditText(v.getContext());  final AlertDialog.Builder passwordResetDialog = new AlertDialog.Builder(v.getContext());  passwordResetDialog.setTitle("Change Password?");  passwordResetDialog.setMessage("Enter New Password");  passwordResetDialog.setView(resetPassword);   passwordResetDialog.setPositiveButton("Yes", (dialog, which) -> {  //validation if empty input  String newPassword = resetPassword.getText().toString();  if(!newPassword.equals("")){  user.updatePassword(newPassword).addOnSuccessListener(new OnSuccessListener<Void>() {  @Override  public void onSuccess(Void aVoid) {  databaseReference.child("users").child(user.getUid()).child("password").setValue(newPassword);  Toast.*makeText*(editprofilepage.this, "Password Changed Successfully.", Toast.*LENGTH\_SHORT*).show();  }  }).addOnFailureListener(e -> Toast.*makeText*(editprofilepage.this, "Password Changed Failed.", Toast.*LENGTH\_SHORT*).show());  }else{  Toast.*makeText*(editprofilepage.this, "Password field empty!.", Toast.*LENGTH\_SHORT*).show();  }  });   passwordResetDialog.setNegativeButton("No", (dialog, which) -> {  // close the dialog  });   passwordResetDialog.create().show();   });  }   @Override  protected void onActivityResult(int requestCode, int resultCode, @androidx.annotation.Nullable Intent data) {  super.onActivityResult(requestCode, resultCode, data);  if(requestCode == 1000){  if(resultCode == Activity.*RESULT\_OK*){  Uri imageUri = data.getData();   // profileImageView.setImageURI(imageUri);   uploadImageToFirebase(imageUri);    }  }   }   private void uploadImageToFirebase(Uri imageUri) {  //upload image to firebase storage  StorageReference fileRef = storageReference.child("users/"+fAuth.getCurrentUser().getUid()+"profile.jpg");  fileRef.putFile(imageUri).addOnSuccessListener(new OnSuccessListener<UploadTask.TaskSnapshot>() {  @Override  public void onSuccess(UploadTask.TaskSnapshot taskSnapshot) {   Toast.*makeText*(editprofilepage.this,"Image Upload.", Toast.*LENGTH\_SHORT*).show();  fileRef.getDownloadUrl().addOnSuccessListener(new OnSuccessListener<Uri>() {  @Override  public void onSuccess(Uri uri) {  Picasso.*get*().load(uri).into(profileImageView);  }  });  }  }).addOnFailureListener(new OnFailureListener() {  @Override  public void onFailure(@NonNull Exception e) {  Toast.*makeText*(editprofilepage.this,"Failed.", Toast.*LENGTH\_SHORT*).show();  }  });  } } |

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| package com.example.itps\_applicant\_app;  import androidx.appcompat.app.AppCompatActivity;  import android.util.Log; import android.text.TextUtils; import android.view.View; import android.widget.Button; import android.widget.EditText; import android.widget.Toast; import androidx.annotation.NonNull; import com.google.android.gms.tasks.OnCompleteListener; import com.google.android.gms.tasks.Task; import com.google.firebase.auth.FirebaseAuth; import android.os.Bundle; import static android.content.ContentValues.*TAG*;  public class ForgotPassword extends AppCompatActivity {  private EditText edtEmail;  private Button btnResetPassword;  private Button btnBack;  private FirebaseAuth mAuth;   @Override  protected void onCreate(Bundle savedInstanceState) {  super.onCreate(savedInstanceState);  setContentView(R.layout.*activity\_forgot\_password*);   edtEmail = (EditText) findViewById(R.id.*email*);  btnResetPassword = (Button) findViewById(R.id.*submitBtn*);  btnBack = (Button) findViewById(R.id.*BackBtn*);   mAuth = FirebaseAuth.*getInstance*();   btnResetPassword.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View v) {   String email = edtEmail.getText().toString().trim();   if (TextUtils.*isEmpty*(email)) {  Toast.*makeText*(getApplicationContext(), "Enter your email!", Toast.*LENGTH\_SHORT*).show();  return;  }   mAuth.sendPasswordResetEmail(email)  .addOnCompleteListener(new OnCompleteListener<Void>() {  @Override  public void onComplete(@NonNull Task<Void> task) {  if (task.isSuccessful()) {  Log.*d*(*TAG*, "Email sent.");  }  }  });   }  });   btnBack.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View v) {  finish();  }  });  } } |

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| package com.example.itps\_applicant\_app;  public class formmodel {  private String nama;  private String id;  private String policeStn;  private String travelReas;  private String destinationAdd;  private String returnDate;  private String DepatureDate;  private String dependent;  private String veichlePlate;  private String VeichleType;  private String address;  private String citizenship;   public formmodel(){   }        public String getNama() {  return nama;  }  public String getIc(){  return id;  }  public String getPoliceStn(){  return policeStn;  }  public String getTravelReas(){  return travelReas;  }  public String getDestinationAdd(){  return destinationAdd;  }  public String getReturnDate(){  return returnDate;  }  public String getDepatureDate(){  return DepatureDate;  }  public String getVeichlePlate(){  return veichlePlate;  }  public String getVeichleType(){  return VeichleType;  }  public String getAddress(){  return address;  }  public String getCitizenship(){  return citizenship;  }  public String getDependent(){ return dependent; }   public void settravelReas(String travelReasTxt) {  this.travelReas = travelReasTxt;  }   public void setdestinationAdd(String destinationAddTxt) {  this.destinationAdd = destinationAddTxt;  }   public void setreturnDate(String returnDateTxt) {  this.returnDate = returnDateTxt;  }   public void setDepatureDate(String depatureDateTxt) {  this.DepatureDate = depatureDateTxt;  }   public void setdependent(String dependentTxt) {  this.dependent = dependentTxt;  }   public void setVeichleType(String veichleTypeTxt) {  this.VeichleType = veichleTypeTxt;  }   public void setveichlePlate(String veichlePlateTxt) {  this.veichlePlate = veichlePlateTxt;  }   public void setnama(String namaTxt) {  this.nama = namaTxt;  }   public void setid(String idTxt) {  this.id = idTxt;  }   public void setcitizenship(String citizenshipTxt) {  this.citizenship = citizenshipTxt;  }   public void setpoliceStn(String policeStnTxt) {  this.policeStn = policeStnTxt;  }   public void setaddress(String addressTxt) {  this.address = addressTxt;  } } |

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| package com.example.itps\_applicant\_app;  import androidx.annotation.NonNull; import androidx.appcompat.app.AppCompatActivity;  import android.content.Intent; import android.os.Bundle; import android.util.Log; import android.view.View; import android.widget.Button; import android.widget.EditText; import android.widget.TextView; import android.widget.Toast;  import com.google.android.gms.tasks.OnCompleteListener; import com.google.android.gms.tasks.Task; import com.google.firebase.auth.AuthResult; import com.google.firebase.auth.FirebaseAuth; import com.google.firebase.auth.FirebaseUser;  import static android.content.ContentValues.*TAG*;  public class Login extends AppCompatActivity {  private FirebaseAuth mAuth;   @Override  protected void onCreate(Bundle savedInstanceState) {  super.onCreate(savedInstanceState);  setContentView(R.layout.*activity\_login*);   mAuth = FirebaseAuth.*getInstance*();   final EditText email = findViewById(R.id.*email*);  final EditText password = findViewById(R.id.*password*);  final Button loginBtn = findViewById(R.id.*LoginBtn*);  final TextView registerNowBtn = findViewById(R.id.*registerNowBtn*);  final TextView ForgotPassword = findViewById(R.id.*FgtPasswordBtn* );   loginBtn.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View v) {   final String emailTxt = email.getText().toString();  final String passwordTxt = password.getText().toString();   if(emailTxt.isEmpty() || passwordTxt.isEmpty()){  Toast.*makeText*(Login.this, "Please enter your email or Password", Toast.*LENGTH\_SHORT*).show();  }  else if (passwordTxt.isEmpty()){  Toast.*makeText*(Login.this, "Please enter your Password", Toast.*LENGTH\_SHORT*).show();  }  else if (emailTxt.isEmpty()){  Toast.*makeText*(Login.this, "Please enter your email", Toast.*LENGTH\_SHORT*).show();  }  else{  login(emailTxt,passwordTxt);  }  }  });    registerNowBtn.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View v) {   //open Register activity   startActivity(new Intent(Login.this,register.class));  }  });   ForgotPassword.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View v) {   //open Forgot password activity   startActivity(new Intent(Login.this,ForgotPassword.class));  }  });   }   private void login (String email, String password){  mAuth.signInWithEmailAndPassword(email, password)  .addOnCompleteListener(this, new OnCompleteListener<AuthResult>() {    @Override  public void onComplete(@NonNull Task<AuthResult> task) {  if (task.isSuccessful()) {  // Sign in success, update UI with the signed-in user's information  Log.*d*(*TAG*, "signInWithEmail:success");  FirebaseUser user = mAuth.getCurrentUser();  if(!user.isEmailVerified()){  startActivity(new Intent(Login.this,verify.class));  }else{  Log.*d*(*TAG*, "can enter dashboard");  startActivity(new Intent(Login.this,dashboard.class));   }  //updateUI(user);  } else {  // If sign in fails, display a message to the user.  Log.*w*(*TAG*, "signInWithEmail:failure", task.getException());  Toast.*makeText*(Login.this, "Authentication failed.",  Toast.*LENGTH\_SHORT*).show();  //updateUI(null);  }  }  });    } } |

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| package com.example.itps\_applicant\_app;  import androidx.appcompat.app.AppCompatActivity;  import android.content.Intent; import android.os.Bundle; import android.os.Handler;  public class MainActivity extends AppCompatActivity {   @Override  protected void onCreate(Bundle savedInstanceState) {  super.onCreate(savedInstanceState);  setContentView(R.layout.*activity\_main*);   new Handler().postDelayed(new Runnable() {     @Override   public void run() {   Intent i = new Intent(MainActivity.this, Login.class);   startActivity(i);     finish();   }   }, 3000);  } } |

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| package com.example.itps\_applicant\_app;  import android.content.Intent; import android.net.Uri; import android.os.Bundle; import android.util.Log; import android.view.View; import android.widget.Button; import android.widget.ImageView; import android.widget.TextView;  import androidx.annotation.NonNull; import androidx.appcompat.app.AppCompatActivity;  import com.google.android.gms.tasks.OnSuccessListener; import com.google.firebase.auth.FirebaseAuth; 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.squareup.picasso.Picasso;  import java.util.Objects;  import static android.content.ContentValues.*TAG*;  public class profile extends AppCompatActivity {   FirebaseDatabase database = FirebaseDatabase.*getInstance*();  DatabaseReference databaseReference = database.getReferenceFromUrl("https://itps-1c7c7-default-rtdb.asia-southeast1.firebasedatabase.app/");  StorageReference storageReference = FirebaseStorage.*getInstance*().getReference();  String UID = Objects.*requireNonNull*(FirebaseAuth.*getInstance*().getCurrentUser()).getUid();  FirebaseAuth fAuth;  TextView fullname, email,phone,ic;  ImageView profileimageView2;   @Override  protected void onCreate(Bundle savedInstanceState) {  super.onCreate(savedInstanceState);  setContentView(R.layout.*activity\_profile*);   fullname = findViewById(R.id.*fullnametv*);  email = findViewById(R.id.*emailtv*);  phone = findViewById(R.id.*phoneTv*);  ic = findViewById(R.id.*IcTv*);  profileimageView2 = findViewById(R.id.*imageView2*);  getprofile();  fAuth = FirebaseAuth.*getInstance*();  final Button editBtn = findViewById(R.id.*editbtn*);    StorageReference profileRef = storageReference.child("users/"+fAuth.getCurrentUser().getUid()+"profile.jpg");   profileRef.getDownloadUrl().addOnSuccessListener(new OnSuccessListener<Uri>() {  @Override  public void onSuccess(Uri uri) {  Picasso.*get*().load(uri).into(profileimageView2);  }  });    editBtn.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View v) {  startActivity(new Intent(profile.this, editprofilepage.class));  }  });   }   public void getprofile() {  //get data once  databaseReference.child("users").child(UID).get().addOnCompleteListener(task -> {  if (!task.isSuccessful()) {  Log.*e*("firebase", "Error getting data", task.getException());  } else {  //Log.d("firebase", String.valueOf(task.getResult().getValue()));  usermodel userData = Objects.*requireNonNull*(task.getResult()).getValue(usermodel.class);  assert userData != null;  fullname.setText(userData.getFullname());  email.setText(userData.getemail());  phone.setText(userData.getPhone());  ic.setText(userData.getIc());   }  });    DatabaseReference myRef =database.getReference("users/" + UID);    // Read from the database  myRef.addValueEventListener(new ValueEventListener() {  @Override  public void onDataChange(@NonNull DataSnapshot dataSnapshot) {  // This method is called once with the initial value and again  // whenever data at this location is updated.  usermodel user = dataSnapshot.getValue(usermodel.class);  Log.*d*(*TAG*, "Value is: " + user);  assert user != null;  fullname.setText(user.getFullname());  email.setText(user.getemail());  phone.setText(user.getPhone());  ic.setText(user.getIc());  Log.*d*(*TAG*, "Value is: " + user.getFullname());  Log.*d*(*TAG*, "Value is: " + user.getemail());  Log.*d*(*TAG*, "Value is: " + user.getPhone());  Log.*d*(*TAG*, "Value is: " + user.getPassword());   }   @Override  public void onCancelled(@NonNull DatabaseError error) {  // Failed to read value  Log.*w*(*TAG*, "Failed to read value.", error.toException());  }  });   } } |

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| package com.example.itps\_applicant\_app;  import androidx.annotation.NonNull; import androidx.appcompat.app.AppCompatActivity; import android.content.Intent; import android.os.Bundle; import android.util.Log; import android.view.View; import android.widget.Button; import android.widget.EditText; import android.widget.TextView; import android.widget.Toast; import com.google.android.gms.tasks.OnCompleteListener; import com.google.android.gms.tasks.Task; import com.google.firebase.auth.AuthResult; 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 static android.content.ContentValues.*TAG*;  public class register extends AppCompatActivity {   DatabaseReference databaseReference = FirebaseDatabase.*getInstance*().getReferenceFromUrl("https://itps-1c7c7-default-rtdb.asia-southeast1.firebasedatabase.app/");  private FirebaseAuth mAuth;    @Override  protected void onCreate(Bundle savedInstanceState) {  super.onCreate(savedInstanceState);  setContentView(R.layout.*activity\_register*);   mAuth = FirebaseAuth.*getInstance*();   final EditText fullname = findViewById(R.id.*fullname*);  final EditText email = findViewById(R.id.*email*);  final EditText phone = findViewById(R.id.*phone*);  final EditText password = findViewById(R.id.*password*);  final EditText conPassword = findViewById(R.id.*conPassword*);  final EditText ic = findViewById(R.id.*Ic*);  final Button registerBtn = findViewById(R.id.*registerBtn*);  final TextView loginNowBtn = findViewById(R.id.*loginNow*);   registerBtn.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View v) {   final String fullnameTxt = fullname.getText().toString();  final String emailTxt = email.getText().toString();  final String phoneTxt = phone.getText().toString();  final String passwordTxt = password.getText().toString();  final String conPasswordTxt = conPassword.getText().toString();  final String icTxt = ic.getText().toString();   if (fullnameTxt.isEmpty() ||icTxt.isEmpty() || emailTxt.isEmpty() || phoneTxt.isEmpty() || passwordTxt.isEmpty()) {  Toast.*makeText*(register.this, "Please fill all fields", Toast.*LENGTH\_SHORT*).show();  } else if (!passwordTxt.equals(conPasswordTxt)) {  Toast.*makeText*(register.this, "password are not matching", Toast.*LENGTH\_SHORT*).show();  } else {   createAccount(icTxt, emailTxt, passwordTxt, phoneTxt, fullnameTxt);      }  }   });    loginNowBtn.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View v) {  finish();  }  });   }   private void createAccount(String ic, String email, String password, String phone, String fullname) {  mAuth.createUserWithEmailAndPassword(email, password)  .addOnCompleteListener(this, new OnCompleteListener<AuthResult>() {  @Override  public void onComplete(@NonNull Task<AuthResult> task) {  if (task.isSuccessful()) {  // Sign in success, update UI with the signed-in user's information  Log.*d*(*TAG*, "createUserWithEmail:success");  FirebaseUser user = mAuth.getCurrentUser();  //updateUI(user);   databaseReference.child("users").addListenerForSingleValueEvent(new ValueEventListener() {  @Override  public void onDataChange(@NonNull DataSnapshot snapshot) {   if (snapshot.hasChild(user.getUid())) {  Toast.*makeText*(register.this, "email is already registered", Toast.*LENGTH\_SHORT*).show();  } else {  databaseReference.child("users").child(user.getUid()).child("fullname").setValue(fullname);  databaseReference.child("users").child(user.getUid()).child("email").setValue(email);  databaseReference.child("users").child(user.getUid()).child("password").setValue(password);  databaseReference.child("users").child(user.getUid()).child("phone").setValue(phone);  databaseReference.child("users").child(user.getUid()).child("ic").setValue(ic);   Toast.*makeText*(register.this, "user registered succsesfully", Toast.*LENGTH\_SHORT*).show();  if(!user.isEmailVerified()){  startActivity(new Intent(register.this,verify.class));  }  finish();  }  }   @Override  public void onCancelled(@NonNull DatabaseError error) {   }  });  } else {  // If sign in fails, display a message to the user.  Log.*w*(*TAG*, "createUserWithEmail:failure", task.getException());   Toast.*makeText*(register.this, "Authentication failed.",  Toast.*LENGTH\_SHORT*).show();  //updateUI(null);  }  }    });  } } |

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| package com.example.itps\_applicant\_app;  import androidx.annotation.NonNull; import androidx.appcompat.app.ActionBar; import androidx.appcompat.app.AppCompatActivity;  import android.app.ProgressDialog; import android.content.Intent; import android.graphics.Bitmap; import android.graphics.Color; import android.graphics.drawable.ColorDrawable; import android.net.Uri; import android.os.Bundle; import android.provider.MediaStore; import android.text.TextUtils; import android.util.Log; import android.view.View; import android.widget.Button; import android.widget.EditText; import android.widget.ImageView; import android.widget.Spinner; 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.auth.AuthResult; 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.OnProgressListener; import com.google.firebase.storage.StorageReference; import com.google.firebase.storage.UploadTask;  import java.io.IOException; import java.text.Normalizer; import java.util.Objects; import java.util.UUID;  import static android.content.ContentValues.*TAG*;  public class request extends AppCompatActivity {    EditText policeStn,nama,id,citizenship,address,VeichleType,veichlePlate;  EditText dependent,DepatureDate,returnDate,destinationAdd,travelReas;  private Button icBtn,supportBtn,RoadtaxBtn,otherBtn,confirmBtn;  private ImageView IcImg,supportImg, roadImg,otherImg;   private Uri filePath;  private final int PICK\_IMAGE\_REQUEST = 22;   private FirebaseAuth mAuth;   FirebaseStorage storage;  StorageReference storageReference;    FirebaseDatabase firebaseDatabase;   // creating a variable for our Database  // Reference for Firebase.  DatabaseReference databaseReference;   // creating a variable for  // our object class  formmodel formmodel;     @Override  protected void onCreate(Bundle savedInstanceState) {  super.onCreate(savedInstanceState);  setContentView(R.layout.*activity\_request*);   ActionBar actionBar;  actionBar = getSupportActionBar();  ColorDrawable colorDrawable  = new ColorDrawable(  Color.*parseColor*("#0F9D58"));  actionBar.setBackgroundDrawable(colorDrawable);    policeStn = findViewById(R.id.*PoliceStation*);  nama = findViewById(R.id.*fullname*);  id = findViewById(R.id.*Ic*);  citizenship = findViewById(R.id.*citizenship*);  address = findViewById(R.id.*Address*);  VeichleType = findViewById(R.id.*Veichle*);  veichlePlate = findViewById(R.id.*carPlate*);  dependent = findViewById(R.id.*Dependent*);  DepatureDate = findViewById(R.id.*depatureDate*);  returnDate = findViewById(R.id.*returnDate*);  destinationAdd = findViewById(R.id.*DestinationAddress*);  travelReas = findViewById(R.id.*TravelReasons*);   firebaseDatabase = FirebaseDatabase.*getInstance*();   // below line is used to get reference for our database.  databaseReference = firebaseDatabase.getReference("RequestForm");   // initializing our object  // class variable.  formmodel = new formmodel();    icBtn = findViewById(R.id.*uploadIcCopy*);  supportBtn = findViewById(R.id.*AddSupportingDetails*);  RoadtaxBtn = findViewById(R.id.*uploadRoadtax*);  otherBtn = findViewById(R.id.*uploadOther*);  confirmBtn = findViewById(R.id.*ConfirmBtn*);   IcImg = findViewById(R.id.*IcImage*);  supportImg = findViewById(R.id.*SupportingDetailsImage*);  roadImg = findViewById(R.id.*RoadtaxImage*);  otherImg = findViewById(R.id.*OtherImage*);   storage = FirebaseStorage.*getInstance*();  storageReference = storage.getReference();   icBtn.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View v)  {   SelectImage();  }  });   supportBtn.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View v)  {   SelectImage1();  }  });   RoadtaxBtn.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View v)  {   SelectImage2();  }  });     otherBtn.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View v)  {   SelectImage3();  }  });     confirmBtn.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View v) {   uploadImage();  uploadImage1();  uploadImage2();  uploadImage3();      String namaTxt = nama.getText().toString();  String idTxt = id.getText().toString();  String policeStnTxt = policeStn.getText().toString();  String citizenshipTxt = citizenship.getText().toString();  String addressTxt = address.getText().toString();  String VeichleTypeTxt = VeichleType.getText().toString();  String veichlePlateTxt = veichlePlate.getText().toString();  String dependentTxt = dependent.getText().toString();  String DepatureDateTxt = DepatureDate.getText().toString();  String returnDateTxt = returnDate.getText().toString();  String destinationAddTxt = destinationAdd.getText().toString();  String travelReasTxt = travelReas.getText().toString();   // below line is for checking weather the  // edittext fields are empty or not.  if ( TextUtils.*isEmpty*(destinationAddTxt) && TextUtils.*isEmpty*(travelReasTxt)  && TextUtils.*isEmpty*(returnDateTxt) && TextUtils.*isEmpty*(DepatureDateTxt) && TextUtils.*isEmpty*(dependentTxt)  && TextUtils.*isEmpty*(veichlePlateTxt) && TextUtils.*isEmpty*(VeichleTypeTxt) && TextUtils.*isEmpty*(policeStnTxt)  && TextUtils.*isEmpty*(namaTxt) && TextUtils.*isEmpty*(idTxt) && TextUtils.*isEmpty*(citizenshipTxt)  && TextUtils.*isEmpty*(addressTxt)) {  // if the text fields are empty  // then show the below message.  Toast.*makeText*(request.this, "Please add some data.", Toast.*LENGTH\_SHORT*).show();  } else {  // else call the method to add  // data to our database.  addDatatoFirebase(idTxt,travelReasTxt,destinationAddTxt,returnDateTxt,returnDateTxt,DepatureDateTxt,  dependentTxt,veichlePlateTxt,VeichleTypeTxt,addressTxt,citizenshipTxt,policeStnTxt,namaTxt);  }   }   });    }  private void SelectImage()  {     // Defining Implicit Intent to mobile gallery  Intent intent = new Intent();  intent.setType("ICimage/\*");  intent.setAction(Intent.*ACTION\_GET\_CONTENT*);  startActivityForResult(  Intent.*createChooser*(  intent,  "Select Image from here..."),  PICK\_IMAGE\_REQUEST);  }  private void SelectImage1()  {   // Defining Implicit Intent to mobile gallery  Intent intent = new Intent();  intent.setType("SupportImage/\*");  intent.setAction(Intent.*ACTION\_GET\_CONTENT*);  startActivityForResult(  Intent.*createChooser*(  intent,  "Select Image from here..."),  PICK\_IMAGE\_REQUEST);  }   private void SelectImage2()  {   // Defining Implicit Intent to mobile gallery  Intent intent = new Intent();  intent.setType("RoadImage/\*");  intent.setAction(Intent.*ACTION\_GET\_CONTENT*);  startActivityForResult(  Intent.*createChooser*(  intent,  "Select Image from here..."),  PICK\_IMAGE\_REQUEST);  }   private void SelectImage3()  {   // Defining Implicit Intent to mobile gallery  Intent intent = new Intent();  intent.setType("OtherImage/\*");  intent.setAction(Intent.*ACTION\_GET\_CONTENT*);  startActivityForResult(  Intent.*createChooser*(  intent,  "Select Image from here..."),  PICK\_IMAGE\_REQUEST);  }     @Override  protected void onActivityResult(int requestCode,  int resultCode,  Intent data)  {   super.onActivityResult(requestCode,  resultCode,  data);   // checking request code and result code  // if request code is PICK\_IMAGE\_REQUEST and  // resultCode is RESULT\_OK  // then set image in the image view  if (requestCode == PICK\_IMAGE\_REQUEST  && resultCode == *RESULT\_OK* && data != null  && data.getData() != null) {   // Get the Uri of data  filePath = data.getData();   try {   // Setting image on image view using Bitmap  Bitmap bitmap = MediaStore  .Images  .Media  .*getBitmap*(  getContentResolver(),  filePath);  IcImg.setImageBitmap(bitmap);  supportImg.setImageBitmap(bitmap);  roadImg.setImageBitmap(bitmap);  otherImg.setImageBitmap(bitmap);  }   catch (IOException e) {  // Log the exception  e.printStackTrace();  }     }  }  private void uploadImage()  {  if (filePath != null) {   // Code for showing progressDialog while uploading  ProgressDialog progressDialog  = new ProgressDialog(this);  progressDialog.setTitle("Uploading...");  progressDialog.show();   // Defining the child of storageReference  StorageReference ref  = storageReference  .child(  "ICimage/"  + UUID.*randomUUID*().toString());   // adding listeners on upload  // or failure of image  ref.putFile(filePath)  .addOnSuccessListener(  new OnSuccessListener<UploadTask.TaskSnapshot>() {   @Override  public void onSuccess(  UploadTask.TaskSnapshot taskSnapshot)  {   // Image uploaded successfully  // Dismiss dialog  progressDialog.dismiss();  Toast  .*makeText*(request.this,  "Image Uploaded!!",  Toast.*LENGTH\_SHORT*)  .show();  }  })   .addOnFailureListener(new OnFailureListener() {  @Override  public void onFailure(@NonNull Exception e)  {   // Error, Image not uploaded  progressDialog.dismiss();  Toast  .*makeText*(request.this,  "Failed " + e.getMessage(),  Toast.*LENGTH\_SHORT*)  .show();  }  })  .addOnProgressListener(  new OnProgressListener<UploadTask.TaskSnapshot>() {   // Progress Listener for loading  // percentage on the dialog box  @Override  public void onProgress(  UploadTask.TaskSnapshot taskSnapshot)  {  double progress  = (100.0  \* taskSnapshot.getBytesTransferred()  / taskSnapshot.getTotalByteCount());  progressDialog.setMessage(  "Uploaded "  + (int)progress + "%");  }  });  }  }   private void uploadImage1()  {  if (filePath != null) {   // Code for showing progressDialog while uploading  ProgressDialog progressDialog  = new ProgressDialog(this);  progressDialog.setTitle("Uploading...");  progressDialog.show();   // Defining the child of storageReference  StorageReference ref  = storageReference  .child(  "SupportImage/"  + UUID.*randomUUID*().toString());   // adding listeners on upload  // or failure of image  ref.putFile(filePath)  .addOnSuccessListener(  new OnSuccessListener<UploadTask.TaskSnapshot>() {   @Override  public void onSuccess(  UploadTask.TaskSnapshot taskSnapshot)  {   // Image uploaded successfully  // Dismiss dialog  progressDialog.dismiss();  Toast  .*makeText*(request.this,  "Image Uploaded!!",  Toast.*LENGTH\_SHORT*)  .show();  }  })   .addOnFailureListener(new OnFailureListener() {  @Override  public void onFailure(@NonNull Exception e)  {   // Error, Image not uploaded  progressDialog.dismiss();  Toast  .*makeText*(request.this,  "Failed " + e.getMessage(),  Toast.*LENGTH\_SHORT*)  .show();  }  })  .addOnProgressListener(  new OnProgressListener<UploadTask.TaskSnapshot>() {   // Progress Listener for loading  // percentage on the dialog box  @Override  public void onProgress(  UploadTask.TaskSnapshot taskSnapshot)  {  double progress  = (100.0  \* taskSnapshot.getBytesTransferred()  / taskSnapshot.getTotalByteCount());  progressDialog.setMessage(  "Uploaded "  + (int)progress + "%");  }  });  }  }  private void uploadImage2()  {  if (filePath != null) {   // Code for showing progressDialog while uploading  ProgressDialog progressDialog  = new ProgressDialog(this);  progressDialog.setTitle("Uploading...");  progressDialog.show();   // Defining the child of storageReference  StorageReference ref  = storageReference  .child(  "RoadImage/"  + UUID.*randomUUID*().toString());   // adding listeners on upload  // or failure of image  ref.putFile(filePath)  .addOnSuccessListener(  new OnSuccessListener<UploadTask.TaskSnapshot>() {   @Override  public void onSuccess(  UploadTask.TaskSnapshot taskSnapshot)  {   // Image uploaded successfully  // Dismiss dialog  progressDialog.dismiss();  Toast  .*makeText*(request.this,  "Image Uploaded!!",  Toast.*LENGTH\_SHORT*)  .show();  }  })   .addOnFailureListener(new OnFailureListener() {  @Override  public void onFailure(@NonNull Exception e)  {   // Error, Image not uploaded  progressDialog.dismiss();  Toast  .*makeText*(request.this,  "Failed " + e.getMessage(),  Toast.*LENGTH\_SHORT*)  .show();  }  })  .addOnProgressListener(  new OnProgressListener<UploadTask.TaskSnapshot>() {   // Progress Listener for loading  // percentage on the dialog box  @Override  public void onProgress(  UploadTask.TaskSnapshot taskSnapshot)  {  double progress  = (100.0  \* taskSnapshot.getBytesTransferred()  / taskSnapshot.getTotalByteCount());  progressDialog.setMessage(  "Uploaded "  + (int)progress + "%");  }  });  }  }  private void uploadImage3()  {  if (filePath != null) {   // Code for showing progressDialog while uploading  ProgressDialog progressDialog  = new ProgressDialog(this);  progressDialog.setTitle("Uploading...");  progressDialog.show();   // Defining the child of storageReference  StorageReference ref  = storageReference  .child(  "OtherImage/"  + UUID.*randomUUID*().toString());   // adding listeners on upload  // or failure of image  ref.putFile(filePath)  .addOnSuccessListener(  new OnSuccessListener<UploadTask.TaskSnapshot>() {   @Override  public void onSuccess(  UploadTask.TaskSnapshot taskSnapshot)  {   // Image uploaded successfully  // Dismiss dialog  progressDialog.dismiss();  Toast  .*makeText*(request.this,  "Image Uploaded!!",  Toast.*LENGTH\_SHORT*)  .show();  }  })   .addOnFailureListener(new OnFailureListener() {  @Override  public void onFailure(@NonNull Exception e)  {   // Error, Image not uploaded  progressDialog.dismiss();  Toast  .*makeText*(request.this,  "Failed " + e.getMessage(),  Toast.*LENGTH\_SHORT*)  .show();  }  })  .addOnProgressListener(  new OnProgressListener<UploadTask.TaskSnapshot>() {   // Progress Listener for loading  // percentage on the dialog box  @Override  public void onProgress(  UploadTask.TaskSnapshot taskSnapshot)  {  double progress  = (100.0  \* taskSnapshot.getBytesTransferred()  / taskSnapshot.getTotalByteCount());  progressDialog.setMessage(  "Uploaded "  + (int)progress + "%");  }  });  }  }    private void addDatatoFirebase(String travelReasTxt, String destinationAddTxt, String returnDateTxt, String DepatureDateTxt, String dependentTxt, String veichlePlateTxt, String VeichleTypeTxt, String namaTxt, String idTxt, String policeStnTxt, String citizenshipTxt, String addressTxt, String txt){  formmodel.settravelReas(travelReasTxt);  formmodel.setdestinationAdd(destinationAddTxt);  formmodel.setreturnDate(returnDateTxt);  formmodel.setDepatureDate(DepatureDateTxt);  formmodel.setdependent(dependentTxt);  formmodel.setveichlePlate(veichlePlateTxt);  formmodel.setVeichleType(VeichleTypeTxt);  formmodel.setnama(namaTxt);  formmodel.setid(idTxt);  formmodel.setpoliceStn(policeStnTxt);  formmodel.setcitizenship(citizenshipTxt);  formmodel.setaddress(addressTxt);   mAuth = FirebaseAuth.*getInstance*();   FirebaseUser user = mAuth.getCurrentUser();   databaseReference.addValueEventListener(new ValueEventListener() {  @Override  public void onDataChange(@NonNull DataSnapshot snapshot) {   if (snapshot.hasChild(user.getUid())) {  Toast.*makeText*(request.this, "email is already registered", Toast.*LENGTH\_SHORT*).show();  } else {  databaseReference.child("RequestForm").child(user.getUid()).child("travelReasons").setValue(travelReasTxt);  databaseReference.child("RequestForm").child(user.getUid()).child("DestinationAddress").setValue(destinationAddTxt);  databaseReference.child("RequestForm").child(user.getUid()).child("returnDate").setValue(returnDateTxt);  databaseReference.child("RequestForm").child(user.getUid()).child("DepatureDate").setValue(DepatureDateTxt);  databaseReference.child("RequestForm").child(user.getUid()).child("Dependent").setValue(dependentTxt);  databaseReference.child("RequestForm").child(user.getUid()).child("VeichlePlate").setValue(veichlePlateTxt);  databaseReference.child("RequestForm").child(user.getUid()).child("VeichleType").setValue(VeichleTypeTxt);  databaseReference.child("RequestForm").child(user.getUid()).child("nama").setValue(namaTxt);  databaseReference.child("RequestForm").child(user.getUid()).child("id").setValue(idTxt);  databaseReference.child("RequestForm").child(user.getUid()).child("policeStation").setValue(policeStnTxt);  databaseReference.child("RequestForm").child(user.getUid()).child("Citizenship").setValue(citizenshipTxt);  databaseReference.child("RequestForm").child(user.getUid()).child("Address").setValue(addressTxt);      Toast.*makeText*(request.this, "user registered succsesfully", Toast.*LENGTH\_SHORT*).show();   }    // after adding this data we are showing toast message.  Toast.*makeText*(request.this, "data added", Toast.*LENGTH\_SHORT*).show();  }   @Override  public void onCancelled(@NonNull DatabaseError error) {   Toast.*makeText*(request.this, "Fail to add data " + error, Toast.*LENGTH\_SHORT*).show();  }  });     }      } |

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| package com.example.itps\_applicant\_app;  import androidx.appcompat.app.AppCompatActivity; import androidx.cardview.widget.CardView;  import android.content.Intent; import android.os.Bundle; import android.view.View;  import android.widget.LinearLayout; import android.widget.TextView;  public class setting extends AppCompatActivity {   @Override  protected void onCreate(Bundle savedInstanceState) {  super.onCreate(savedInstanceState);  setContentView(R.layout.*activity\_setting*);   final CardView c1 = findViewById(R.id.*settingCard1*);  final CardView c2 = findViewById(R.id.*settingCard2*);  final CardView c3 = findViewById(R.id.*settingCard3*);  final CardView logout = findViewById(R.id.*logout*);   c1.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View v) {  startActivity(new Intent(setting.this,profile.class));  }  });     c2.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View v) {  startActivity(new Intent(setting.this,request.class));  }  });  c3.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View v) {  startActivity(new Intent(setting.this,status.class));  }  });   logout.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View v) {  startActivity(new Intent(setting.this,Login.class));  }  });  } } |

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| package com.example.itps\_applicant\_app;  import androidx.annotation.NonNull; import androidx.appcompat.app.AppCompatActivity;  import android.os.Bundle; import android.widget.ImageView; import android.widget.Toast;  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.squareup.picasso.Picasso;  public class status extends AppCompatActivity {   ImageView rImage;   @Override  protected void onCreate(Bundle savedInstanceState) {  super.onCreate(savedInstanceState);  setContentView(R.layout.*activity\_status*);   rImage = findViewById(R.id.*imageView2*);   FirebaseDatabase firebaseDatabase = FirebaseDatabase.*getInstance*();   // we will get a DatabaseReference for the database root node  DatabaseReference databaseReference = firebaseDatabase.getReference();   // Here "image" is the child node value we are getting  // child node data in the getImage variable  DatabaseReference getImage = databaseReference.child("imej");   // Adding listener for a single change  // in the data at this location.  // this listener will triggered once  // with the value of the data at the location  getImage.addListenerForSingleValueEvent(new ValueEventListener() {  @Override  public void onDataChange(@NonNull DataSnapshot dataSnapshot) {  // getting a DataSnapshot for the location at the specified  // relative path and getting in the link variable  String link = dataSnapshot.getValue(String.class);   // loading that data into rImage  // variable which is ImageView  Picasso.*get*().load(link).into(rImage);  }   // this will called when any problem  // occurs in getting data  @Override  public void onCancelled(@NonNull DatabaseError databaseError) {  // we are showing that error message in toast  Toast.*makeText*(status.this, "Error Loading Image", Toast.*LENGTH\_SHORT*).show();  }  });  } } |

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| package com.example.itps\_applicant\_app;  public class usermodel {   private String fullname;  private String email;  private String phone;  private String password;  private String ic;    public usermodel() {}   public usermodel(String email, String fullname,String password,String phone) {  this.email = email;  this.fullname = fullname;  this.phone = phone;  this.password = password;  this.ic = ic;     }   public String getFullname() {  return fullname;  }   public String getemail() {  return email;  }   public String getPhone(){  return phone;  }   public String getPassword(){  return password;  }  public String getIc(){  return ic;  }  } |

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| package com.example.itps\_applicant\_app;  import androidx.annotation.NonNull; import androidx.appcompat.app.AppCompatActivity; import android.os.Bundle; import android.util.Log; import android.view.View; import android.widget.Button; import android.widget.Toast; import com.google.android.gms.tasks.OnCompleteListener; import com.google.android.gms.tasks.Task; import com.google.firebase.auth.FirebaseAuth; import com.google.firebase.auth.FirebaseUser; import java.util.Timer; import java.util.TimerTask; import static android.content.ContentValues.*TAG*;  public class verify extends AppCompatActivity {   FirebaseAuth auth = FirebaseAuth.*getInstance*();  FirebaseUser user = auth.getCurrentUser();  boolean \_once = false;   @Override  protected void onCreate(Bundle savedInstanceState) {  super.onCreate(savedInstanceState);  setContentView(R.layout.*activity\_verify*);  Button verifyBtn = findViewById(R.id.*button*);   verifyBtn.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View v) {   verify();  if (!\_once){   \_once = true;  Timer t = new Timer();  TimerTask verifyCheck= new TimerTask() {  public void run() {   //perform your action here  user.reload();  if(user.isEmailVerified()){   t.cancel();  t.purge();  finish();  }  }  };  t.schedule(verifyCheck,1, 1000);  }  }  });  }  private void verify (){   user.sendEmailVerification()  .addOnCompleteListener(new OnCompleteListener<Void>() {  @Override  public void onComplete(@NonNull Task<Void> task) {  if (task.isSuccessful()) {  Log.*d*(*TAG*, "Email sent.");  }  }  });   } } |

ADMIN

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| package com.example.adminapp;  import androidx.annotation.NonNull; import androidx.appcompat.app.AppCompatActivity; import androidx.cardview.widget.CardView;  import android.app.AlertDialog; import android.content.DialogInterface; import android.content.Intent; import android.os.Bundle; import android.view.View; import android.widget.ImageView; import android.widget.TextView; import android.widget.Toast; import com.google.zxing.integration.android.IntentIntegrator; import com.google.zxing.integration.android.IntentResult; import com.google.firebase.auth.FirebaseAuth; 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.Objects;  public class dashboard extends AppCompatActivity {   TextView fullname;  CardView c1, c2,c3;  ImageView widget;  FirebaseDatabase database = FirebaseDatabase.*getInstance*();  FirebaseDatabase databaseReference;  FirebaseDatabase Dbase = FirebaseDatabase.*getInstance*();  String UID = Objects.*requireNonNull*(FirebaseAuth.*getInstance*().getCurrentUser()).getUid();     @Override  protected void onCreate(Bundle savedInstanceState) {  super.onCreate(savedInstanceState);  setContentView(R.layout.*activity\_dashboard*);   fullname = findViewById(R.id.*textTitle*);  widget = findViewById(R.id.*widget*);  c1 = findViewById(R.id.*card1*);  c2 = findViewById(R.id.*card2*);   databaseReference = FirebaseDatabase.*getInstance*();      DatabaseReference myref = Dbase.getReference("admins/" + UID);   myref.addValueEventListener(new ValueEventListener() {  @Override  public void onDataChange(@NonNull DataSnapshot snapshot) {   usermodel user = snapshot.getValue(usermodel.class);  assert user != null;  String name = user.getFullname();  fullname.setText(name);    }   @Override  public void onCancelled(@NonNull DatabaseError error) {   }  });   widget.setOnClickListener(new View.OnClickListener() {   @Override  public void onClick(View v) {  startActivity(new Intent(dashboard.this, setting.class));  }  });   c1.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View v) {  startActivity(new Intent(dashboard.this, profile.class));  }  });   c2.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View view) {    startActivity(new Intent(dashboard.this,QrGen.class));   }  });      }   } |

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| package com.example.adminapp;  import androidx.annotation.NonNull; import androidx.appcompat.app.AlertDialog; 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.util.Log; 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.firebase.auth.FirebaseAuth; import com.google.firebase.auth.FirebaseUser; import com.google.firebase.database.DatabaseReference; import com.google.firebase.database.FirebaseDatabase; import com.google.firebase.storage.FirebaseStorage; import com.google.firebase.storage.StorageReference; import com.google.firebase.storage.UploadTask; import com.squareup.picasso.Picasso;  import java.util.Objects;  public class editprofilepage extends AppCompatActivity {    DatabaseReference databaseReference = FirebaseDatabase.*getInstance*().getReferenceFromUrl("https://itps-1c7c7-default-rtdb.asia-southeast1.firebasedatabase.app/");  String UID = Objects.*requireNonNull*(FirebaseAuth.*getInstance*().getCurrentUser()).getUid(); // edited  FirebaseUser user = FirebaseAuth.*getInstance*().getCurrentUser(); //edited  EditText profileFullName, profileEmail, profilePhone;  ImageView profileImageView;  FirebaseAuth fAuth;  Button saveBtn, ChgPassBtn, ChgImgBtn;  StorageReference storageReference = FirebaseStorage.*getInstance*().getReference();    @Override  protected void onCreate(Bundle savedInstanceState) {  super.onCreate(savedInstanceState);  setContentView(R.layout.*activity\_editprofilepage*);   ChgPassBtn = findViewById(R.id.*ChgPassBtn*);  ChgImgBtn = findViewById(R.id.*ChgImgBtn*);  profileFullName= findViewById(R.id.*fullnametv*);  profileEmail = findViewById(R.id.*emailtv*);  profilePhone = findViewById(R.id.*phoneTv*);  profileImageView = findViewById(R.id.*imageView2*);  saveBtn = findViewById(R.id.*saveBtn*);  fAuth = FirebaseAuth.*getInstance*();   StorageReference profileRef = storageReference.child("admins/"+fAuth.getCurrentUser().getUid()+"profile.jpg");  profileRef.getDownloadUrl().addOnSuccessListener(new OnSuccessListener<Uri>() {  @Override  public void onSuccess(Uri uri) {  Picasso.*get*().load(uri).into(profileImageView);  }  });     //get data once  databaseReference.child("admins").child(UID).get().addOnCompleteListener(task -> {  if (!task.isSuccessful()) {  Log.*e*("firebase", "Error getting data", task.getException());  } else {  //Log.d("firebase", String.valueOf(task.getResult().getValue()));  usermodel userData = Objects.*requireNonNull*(task.getResult()).getValue(usermodel.class);  assert userData != null;  profileFullName.setText(userData.getFullname());  profileEmail.setText(userData.getemail());  profilePhone.setText(userData.getPhone());  //add get profile image example provided below  //profilePicture.setImageURI(userData.getProfilePicture());  //to use this, u need to modify usermodel class by adding this  //private Uri profilePicture;  //public usermodel(....., Uri profilePicture){  //......;  // this.profilePicture = profilePicture;  //}  //public Uri getProfilePicture(){ return profilePicture;}  }  });   saveBtn.setOnClickListener(v -> {  if (profileFullName.getText().toString().isEmpty() || profileEmail.getText().toString().isEmpty() || profilePhone.getText().toString().isEmpty()) {  Toast.*makeText*(editprofilepage.this, "One or Many fields are empty.", Toast.*LENGTH\_SHORT*).show();  return;  }   final String email = profileEmail.getText().toString();  user.updateEmail(email).addOnSuccessListener(unused -> {  Toast.*makeText*(editprofilepage.this, "saved", Toast.*LENGTH\_SHORT*).show();  //update database after done update email  databaseReference.child("admins").child(user.getUid()).child("fullname").setValue(profileFullName.getText().toString());  databaseReference.child("admins").child(user.getUid()).child("email").setValue(email);  databaseReference.child("admins").child(user.getUid()).child("phone").setValue(profilePhone.getText().toString());  // Toast.makeText(editprofilepage.this, "Profile Updated", Toast.LENGTH\_SHORT).show();  // startActivity(new Intent(getApplicationContext(), MainActivity.class));  // finish();  }).addOnFailureListener(e -> Toast.*makeText*(editprofilepage.this, e.getMessage(), Toast.*LENGTH\_SHORT*).show()); // profileEmail.setText(email); // profileFullName.setText(fullName); // profilePhone.setText(phone); // Log.d(TAG, "onCreate: " + fullName + " " + email + " " + phone);  });   ChgImgBtn.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View v) {  Intent openGalleryIntent = new Intent(Intent.*ACTION\_PICK*, MediaStore.Images.Media.*EXTERNAL\_CONTENT\_URI*);  startActivityForResult(openGalleryIntent,1000);  }  });   ChgPassBtn.setOnClickListener(v -> {  //password reset or change password?  final EditText resetPassword = new EditText(v.getContext());  final AlertDialog.Builder passwordResetDialog = new AlertDialog.Builder(v.getContext());  passwordResetDialog.setTitle("Change Password?");  passwordResetDialog.setMessage("Enter New Password");  passwordResetDialog.setView(resetPassword);   passwordResetDialog.setPositiveButton("Yes", (dialog, which) -> {  //validation if empty input  String newPassword = resetPassword.getText().toString();  if(!newPassword.equals("")){  user.updatePassword(newPassword).addOnSuccessListener(new OnSuccessListener<Void>() {  @Override  public void onSuccess(Void aVoid) {  databaseReference.child("admins").child(user.getUid()).child("password").setValue(newPassword);  Toast.*makeText*(editprofilepage.this, "Password Changed Successfully.", Toast.*LENGTH\_SHORT*).show();  }  }).addOnFailureListener(e -> Toast.*makeText*(editprofilepage.this, "Password Changed Failed.", Toast.*LENGTH\_SHORT*).show());  }else{  Toast.*makeText*(editprofilepage.this, "Password field empty!.", Toast.*LENGTH\_SHORT*).show();  }  });   passwordResetDialog.setNegativeButton("No", (dialog, which) -> {  // close the dialog  });   passwordResetDialog.create().show();   });  }   @Override  protected void onActivityResult(int requestCode, int resultCode, @androidx.annotation.Nullable Intent data) {  super.onActivityResult(requestCode, resultCode, data);  if(requestCode == 1000){  if(resultCode == Activity.*RESULT\_OK*){  Uri imageUri = data.getData();   // profileImageView.setImageURI(imageUri);   uploadImageToFirebase(imageUri);    }  }   }   private void uploadImageToFirebase(Uri imageUri) {  //upload image to firebase storage  StorageReference fileRef = storageReference.child("admins/"+fAuth.getCurrentUser().getUid()+"profile.jpg");  fileRef.putFile(imageUri).addOnSuccessListener(new OnSuccessListener<UploadTask.TaskSnapshot>() {  @Override  public void onSuccess(UploadTask.TaskSnapshot taskSnapshot) {   Toast.*makeText*(editprofilepage.this,"Image Upload.", Toast.*LENGTH\_SHORT*).show();  fileRef.getDownloadUrl().addOnSuccessListener(new OnSuccessListener<Uri>() {  @Override  public void onSuccess(Uri uri) {  Picasso.*get*().load(uri).into(profileImageView);  }  });  }  }).addOnFailureListener(new OnFailureListener() {  @Override  public void onFailure(@NonNull Exception e) {  Toast.*makeText*(editprofilepage.this,"Failed.", Toast.*LENGTH\_SHORT*).show();  }  });  } } |

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| package com.example.adminapp;  import androidx.annotation.NonNull; import androidx.appcompat.app.AppCompatActivity;  import android.content.Intent; import android.os.Bundle; import android.util.Log; import android.view.View; import android.widget.Button; import android.widget.EditText; import android.widget.TextView; import android.widget.Toast;  import com.google.android.gms.tasks.OnCompleteListener; import com.google.android.gms.tasks.Task; import com.google.firebase.auth.AuthResult; import com.google.firebase.auth.FirebaseAuth; import com.google.firebase.auth.FirebaseUser;  import static android.content.ContentValues.*TAG*;  public class Login extends AppCompatActivity {   private FirebaseAuth mAuth;   @Override  protected void onCreate(Bundle savedInstanceState) {  super.onCreate(savedInstanceState);  setContentView(R.layout.*activity\_login*);   mAuth = FirebaseAuth.*getInstance*();   final EditText email = findViewById(R.id.*email*);  final EditText password = findViewById(R.id.*password*);  final Button loginBtn = findViewById(R.id.*LoginBtn*);  final TextView registerNowBtn = findViewById(R.id.*registerNowBtn*);  final TextView ForgotPassword = findViewById(R.id.*FgtPasswordBtn* );   loginBtn.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View v) {   final String emailTxt = email.getText().toString();  final String passwordTxt = password.getText().toString();   if(emailTxt.isEmpty() || passwordTxt.isEmpty()){  Toast.*makeText*(Login.this, "Please enter your email or Password", Toast.*LENGTH\_SHORT*).show();  }  else if (passwordTxt.isEmpty()){  Toast.*makeText*(Login.this, "Please enter your Password", Toast.*LENGTH\_SHORT*).show();  }  else if (emailTxt.isEmpty()){  Toast.*makeText*(Login.this, "Please enter your email", Toast.*LENGTH\_SHORT*).show();  }  else{  login(emailTxt,passwordTxt);  }  }  });    registerNowBtn.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View v) {   //open Register activity   startActivity(new Intent(Login.this,register.class));  }  });   ForgotPassword.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View v) {   //open Forgot password activity   startActivity(new Intent(Login.this,forgotPassword.class));  }  });  }   private void login (String email, String password){  mAuth.signInWithEmailAndPassword(email, password)  .addOnCompleteListener(this, new OnCompleteListener<AuthResult>() {    @Override  public void onComplete(@NonNull Task<AuthResult> task) {  if (task.isSuccessful()) {  // Sign in success, update UI with the signed-in user's information  Log.*d*(*TAG*, "signInWithEmail:success");  FirebaseUser user = mAuth.getCurrentUser();  if(!user.isEmailVerified()){  startActivity(new Intent(Login.this,verify.class));  }else{  startActivity(new Intent(Login.this,dashboard.class));  }  //updateUI(user);  } else {  // If sign in fails, display a message to the user.  Log.*w*(*TAG*, "signInWithEmail:failure", task.getException());  Toast.*makeText*(Login.this, "Authentication failed.",  Toast.*LENGTH\_SHORT*).show();  //updateUI(null);  }  }  });    } } |

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| package com.example.adminapp;  import androidx.annotation.NonNull; import androidx.appcompat.app.AppCompatActivity;  import android.content.Intent; import android.net.Uri; import android.os.Bundle; import android.util.Log; import android.view.View; import android.widget.Button; import android.widget.ImageView; import android.widget.TextView;  import com.google.android.gms.tasks.OnSuccessListener; import com.google.firebase.auth.FirebaseAuth; 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.squareup.picasso.Picasso;  import java.util.Objects;  import static android.content.ContentValues.*TAG*;  public class profile extends AppCompatActivity {   FirebaseDatabase database = FirebaseDatabase.*getInstance*();  DatabaseReference databaseReference = database.getReferenceFromUrl("https://itps-1c7c7-default-rtdb.asia-southeast1.firebasedatabase.app/");  StorageReference storageReference = FirebaseStorage.*getInstance*().getReference();  String UID = Objects.*requireNonNull*(FirebaseAuth.*getInstance*().getCurrentUser()).getUid();  FirebaseAuth fAuth;  TextView fullname, email,phone,ic;  ImageView profileimageView2;   @Override  protected void onCreate(Bundle savedInstanceState) {  super.onCreate(savedInstanceState);  setContentView(R.layout.*activity\_profile*);   fullname = findViewById(R.id.*fullnametv*);  email = findViewById(R.id.*emailtv*);  phone = findViewById(R.id.*phoneTv*);  ic = findViewById(R.id.*IcTv*);  profileimageView2 = findViewById(R.id.*imageView2*);  getprofile();  fAuth = FirebaseAuth.*getInstance*();  final Button editBtn = findViewById(R.id.*editbtn*);    StorageReference profileRef = storageReference.child("admins/"+fAuth.getCurrentUser().getUid()+"profile.jpg");   profileRef.getDownloadUrl().addOnSuccessListener(new OnSuccessListener<Uri>() {  @Override  public void onSuccess(Uri uri) {  Picasso.*get*().load(uri).into(profileimageView2);  }  });    editBtn.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View v) {  startActivity(new Intent(profile.this, editprofilepage.class));  }  });  }   public void getprofile() {  //get data once  databaseReference.child("admins").child(UID).get().addOnCompleteListener(task -> {  if (!task.isSuccessful()) {  Log.*e*("firebase", "Error getting data", task.getException());  } else {  //Log.d("firebase", String.valueOf(task.getResult().getValue()));  usermodel userData = Objects.*requireNonNull*(task.getResult()).getValue(usermodel.class);  assert userData != null;  fullname.setText(userData.getFullname());  email.setText(userData.getemail());  phone.setText(userData.getPhone());  ic.setText(userData.getIc());   }  });    DatabaseReference myRef =database.getReference("admins/" + UID);    // Read from the database  myRef.addValueEventListener(new ValueEventListener() {  @Override  public void onDataChange(@NonNull DataSnapshot dataSnapshot) {  // This method is called once with the initial value and again  // whenever data at this location is updated.  usermodel user = dataSnapshot.getValue(usermodel.class);  Log.*d*(*TAG*, "Value is: " + user);  assert user != null;  fullname.setText(user.getFullname());  email.setText(user.getemail());  phone.setText(user.getPhone());  ic.setText(user.getIc());  Log.*d*(*TAG*, "Value is: " + user.getFullname());  Log.*d*(*TAG*, "Value is: " + user.getemail());  Log.*d*(*TAG*, "Value is: " + user.getPhone());  Log.*d*(*TAG*, "Value is: " + user.getPassword());   }   @Override  public void onCancelled(@NonNull DatabaseError error) {  // Failed to read value  Log.*w*(*TAG*, "Failed to read value.", error.toException());  }  });   } } |

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| package com.example.adminapp;  import androidx.appcompat.app.AppCompatActivity;  import android.graphics.Bitmap; import android.graphics.Point; import android.os.Bundle; import android.text.TextUtils; import android.util.Log; import android.view.Display; import android.view.View; import android.view.WindowManager; import android.widget.Button; import android.widget.EditText; import android.widget.ImageView; import android.widget.Toast;  import com.google.zxing.WriterException;  import androidmads.library.qrgenearator.QRGContents; import androidmads.library.qrgenearator.QRGEncoder;  public class QrGen extends AppCompatActivity {   private ImageView qrCodeIV;  private EditText dataEdt;  private Button generateQrBtn;  Bitmap bitmap;  QRGEncoder qrgEncoder;   @Override  protected void onCreate(Bundle savedInstanceState) {  super.onCreate(savedInstanceState);  setContentView(R.layout.*activity\_qr\_gen*);  qrCodeIV = findViewById(R.id.*idIVQrcode*);  dataEdt = findViewById(R.id.*idEdt*);  generateQrBtn = findViewById(R.id.*idBtnGenerateQR*);   // initializing onclick listener for button.  generateQrBtn.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View v) {  if (TextUtils.*isEmpty*(dataEdt.getText().toString())) {   // if the edittext inputs are empty then execute  // this method showing a toast message.  Toast.*makeText*(QrGen.this, "Enter some text to generate QR Code", Toast.*LENGTH\_SHORT*).show();  } else {  // below line is for getting  // the windowmanager service.  WindowManager manager = (WindowManager) getSystemService(*WINDOW\_SERVICE*);   // initializing a variable for default display.  Display display = manager.getDefaultDisplay();   // creating a variable for point which  // is to be displayed in QR Code.  Point point = new Point();  display.getSize(point);   // getting width and  // height of a point  int width = point.x;  int height = point.y;   // generating dimension from width and height.  int dimen = width < height ? width : height;  dimen = dimen \* 3 / 4;   // setting this dimensions inside our qr code  // encoder to generate our qr code.  qrgEncoder = new QRGEncoder(dataEdt.getText().toString(), null, QRGContents.Type.*TEXT*, dimen);  try {  // getting our qrcode in the form of bitmap.  bitmap = qrgEncoder.encodeAsBitmap();  // the bitmap is set inside our image  // view using .setimagebitmap method.  qrCodeIV.setImageBitmap(bitmap);  } catch (WriterException e) {  // this method is called for  // exception handling.  Log.*e*("Tag", e.toString());  }  }  }  });  } } |

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| package com.example.adminapp;  import androidx.annotation.NonNull; import androidx.appcompat.app.AppCompatActivity;  import android.content.Intent; import android.os.Bundle; import android.util.Log; import android.view.View; import android.widget.Button; import android.widget.EditText; import android.widget.TextView; import android.widget.Toast;  import com.google.android.gms.tasks.OnCompleteListener; import com.google.android.gms.tasks.Task; import com.google.firebase.auth.AuthResult; 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 static android.content.ContentValues.*TAG*;  public class register extends AppCompatActivity {   DatabaseReference databaseReference = FirebaseDatabase.*getInstance*().getReferenceFromUrl("https://itps-1c7c7-default-rtdb.asia-southeast1.firebasedatabase.app/");  private FirebaseAuth mAuth;    @Override  protected void onCreate(Bundle savedInstanceState) {  super.onCreate(savedInstanceState);  setContentView(R.layout.*activity\_register*);   mAuth = FirebaseAuth.*getInstance*();   final EditText fullname = findViewById(R.id.*fullname*);  final EditText email = findViewById(R.id.*email*);  final EditText phone = findViewById(R.id.*phone*);  final EditText password = findViewById(R.id.*password*);  final EditText conPassword = findViewById(R.id.*conPassword*);  final EditText ic = findViewById(R.id.*Ic*);   final Button registerBtn = findViewById(R.id.*registerBtn*);  final TextView loginNowBtn = findViewById(R.id.*loginNow*);   registerBtn.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View v) {   final String fullnameTxt = fullname.getText().toString();  final String emailTxt = email.getText().toString();  final String phoneTxt = phone.getText().toString();  final String passwordTxt = password.getText().toString();  final String conPasswordTxt = conPassword.getText().toString();  final String icTxt = ic.getText().toString();   if (fullnameTxt.isEmpty() || icTxt.isEmpty() || emailTxt.isEmpty() || phoneTxt.isEmpty() || passwordTxt.isEmpty()) {  Toast.*makeText*(register.this, "Please fill all fields", Toast.*LENGTH\_SHORT*).show();  } else if (!passwordTxt.equals(conPasswordTxt)) {  Toast.*makeText*(register.this, "password are not matching", Toast.*LENGTH\_SHORT*).show();  } else {   createAccount(icTxt, emailTxt, passwordTxt, phoneTxt, fullnameTxt);      }  }   });    loginNowBtn.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View v) {  finish();  }  });   }   private void createAccount(String ic,String email, String password, String phone,String fullname) {  mAuth.createUserWithEmailAndPassword(email, password)  .addOnCompleteListener(this, new OnCompleteListener<AuthResult>() {  @Override  public void onComplete(@NonNull Task<AuthResult> task) {  if (task.isSuccessful()) {  // Sign in success, update UI with the signed-in user's information  Log.*d*(*TAG*, "createUserWithEmail:success");  FirebaseUser admins = mAuth.getCurrentUser();  //updateUI(user);   databaseReference.child("admins").addListenerForSingleValueEvent(new ValueEventListener() {  @Override  public void onDataChange(@NonNull DataSnapshot snapshot) {   if (snapshot.hasChild(admins.getUid())) {  Toast.*makeText*(register.this, "email is already registered", Toast.*LENGTH\_SHORT*).show();  } else {  databaseReference.child("admins").child(admins.getUid()).child("fullname").setValue(fullname);  databaseReference.child("admins").child(admins.getUid()).child("email").setValue(email);  databaseReference.child("admins").child(admins.getUid()).child("password").setValue(password);  databaseReference.child("admins").child(admins.getUid()).child("phone").setValue(phone);  databaseReference.child("admins").child(admins.getUid()).child("ic").setValue(ic);   Toast.*makeText*(register.this, "user registered succsesfully", Toast.*LENGTH\_SHORT*).show();  if(!admins.isEmailVerified()){  startActivity(new Intent(register.this,verify.class));  }  finish();  }  }  @Override  public void onCancelled(@NonNull DatabaseError error) {   }  });  } else {  // If sign in fails, display a message to the user.  Log.*w*(*TAG*, "createUserWithEmail:failure", task.getException());   Toast.*makeText*(register.this, "Authentication failed.",  Toast.*LENGTH\_SHORT*).show();  //updateUI(null);  }  }    });  } } |

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| package com.example.enforcementapp;  import com.journeyapps.barcodescanner.CaptureActivity;  public class Capture extends CaptureActivity { } |

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| package com.example.enforcementapp;  import androidx.annotation.NonNull; import androidx.appcompat.app.AppCompatActivity; import androidx.core.app.ActivityCompat; import androidx.core.content.ContextCompat;  import android.content.pm.PackageManager; import android.os.Bundle; import android.view.View; import android.widget.TextView; import android.widget.Toast;  import com.budiyev.android.codescanner.CodeScanner; import com.budiyev.android.codescanner.CodeScannerView; import com.budiyev.android.codescanner.DecodeCallback; import com.google.zxing.Result;  import eu.livotov.labs.android.camview.ScannerLiveView; import eu.livotov.labs.android.camview.scanner.decoder.zxing.ZXDecoder;  import static android.Manifest.permission.*CAMERA*; import static android.Manifest.permission.*VIBRATE*;   public class scanner extends AppCompatActivity {   private ScannerLiveView camera;  private TextView scannedTV;    @Override  protected void onCreate(Bundle savedInstanceState) {  super.onCreate(savedInstanceState);  setContentView(R.layout.*activity\_scanner*);   if (checkPermission()) {  // if permission is already granted display a toast message  Toast.*makeText*(this, "Permission Granted..", Toast.*LENGTH\_SHORT*).show();  } else {  requestPermission();  }   // initialize scannerLiveview and textview.  scannedTV = findViewById(R.id.*idTVscanned*);  camera = (ScannerLiveView) findViewById(R.id.*camview*);   camera.setScannerViewEventListener(new ScannerLiveView.ScannerViewEventListener() {  @Override  public void onScannerStarted(ScannerLiveView scanner) {  // method is called when scanner is started  Toast.*makeText*(scanner.this, "Scanner Started", Toast.*LENGTH\_SHORT*).show();  }   @Override  public void onScannerStopped(ScannerLiveView scanner) {  // method is called when scanner is stopped.  Toast.*makeText*(scanner.this, "Scanner Stopped", Toast.*LENGTH\_SHORT*).show();  }   @Override  public void onScannerError(Throwable err) {  // method is called when scanner gives some error.  Toast.*makeText*(scanner.this, "Scanner Error: " + err.getMessage(), Toast.*LENGTH\_SHORT*).show();  }   @Override  public void onCodeScanned(String data) {  // method is called when camera scans the  // qr code and the data from qr code is  // stored in data in string format.  scannedTV.setText(data);  }  });  }   @Override  protected void onResume() {  super.onResume();  ZXDecoder decoder = new ZXDecoder();  // 0.5 is the area where we have  // to place red marker for scanning.  decoder.setScanAreaPercent(0.8);  // below method will set secoder to camera.  camera.setDecoder(decoder);  camera.startScanner();  }   @Override  protected void onPause() {  // on app pause the  // camera will stop scanning.  camera.stopScanner();  super.onPause();  }   private boolean checkPermission() {  // here we are checking two permission that is vibrate  // and camera which is granted by user and not.  // if permission is granted then we are returning  // true otherwise false.  int camera\_permission = ContextCompat.*checkSelfPermission*(getApplicationContext(), *CAMERA*);  int vibrate\_permission = ContextCompat.*checkSelfPermission*(getApplicationContext(), *VIBRATE*);  return camera\_permission == PackageManager.*PERMISSION\_GRANTED* && vibrate\_permission == PackageManager.*PERMISSION\_GRANTED*;  }    private void requestPermission() {  // this method is to request  // the runtime permission.  int PERMISSION\_REQUEST\_CODE = 200;  ActivityCompat.*requestPermissions*(this, new String[]{*CAMERA*, *VIBRATE*}, PERMISSION\_REQUEST\_CODE);  }   @Override  public void onRequestPermissionsResult(int requestCode, String permissions[], int[] grantResults) {  // this method is called when user  // allows the permission to use camera.  super.onRequestPermissionsResult(requestCode, permissions, grantResults);  if (grantResults.length > 0) {  boolean cameraaccepted = grantResults[0] == PackageManager.*PERMISSION\_GRANTED*;  boolean vibrateaccepted = grantResults[1] == PackageManager.*PERMISSION\_GRANTED*;  if (cameraaccepted && vibrateaccepted) {  Toast.*makeText*(this, "Permission granted..", Toast.*LENGTH\_SHORT*).show();  } else {  Toast.*makeText*(this, "Permission Denined \n You cannot use app without providing permission", Toast.*LENGTH\_SHORT*).show();  }  }  } } |