Project tittle :

MA Messenger

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21-Arid-627(6B-Evening)

Signup_page:

Xml code:

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/two"
    tools:context=".signup">


    <TextView
        android:id="@+id/textView11"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="16dp"
        android:layout_marginBottom="15dp"
        android:gravity="center"
        android:text="Create New"
        android:textColor="@color/white"
        android:textSize="@dimen/_25sdp"
        android:textStyle="bold"
        app:layout_constraintBottom_toTopOf="@+id/textView13"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <de.hdodenhof.circleimageview.CircleImageView
        android:id="@+id/profilerg1"
        android:layout_width="182dp"
        android:layout_height="125dp"
        android:src="@drawable/photocamera"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.194" />

    <TextView
        android:id="@+id/textView13"
        android:layout_width="140dp"
        android:layout_height="66dp"
        android:layout_marginTop="52dp"
        android:gravity="center_vertical"
        android:text="Account"
```

```xml
        android:textColor="@color/white"
        android:textSize="@dimen/_25sdp"
        android:textStyle="bold"
        app:layout_constraintStart_toStartOf="@+id/textView11"
        app:layout_constraintTop_toTopOf="parent" />


    <TextView
        android:id="@+id/textView19"
        android:layout_width="95dp"
        android:layout_height="53dp"
        android:gravity="center_vertical"
        android:text="userName"
        android:textColor="@color/black"
        android:textSize="@dimen/_15sdp"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.028"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.405" />

    <EditText
        android:id="@+id/userPersonName"
        android:layout_width="239dp"
        android:layout_height="45dp"
        android:ems="10"
        android:inputType="textPersonName"
        android:text="Name"
        android:textSize="@dimen/_13sdp"
        android:textStyle=""
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.813"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.4" />

    <TextView
        android:id="@+id/gmailuser"
        android:layout_width="86dp"
        android:layout_height="41dp"
        android:gravity="center_vertical"
        android:text="Gmail"
        android:textColor="@color/black"
        android:textSize="@dimen/_15sdp"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.027"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <EditText
        android:id="@+id/sigupemail"
        android:layout_width="244dp"
        android:layout_height="49dp"
        android:ems="10"
        android:hint="Email"
        android:inputType="textEmailAddress"
```

```xml
            android:textColor="@color/black"
            android:textStyle="bold"
            app:layout_constraintBottom_toBottomOf="parent"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintHorizontal_bias="0.838"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toTopOf="parent" />

    <TextView
            android:id="@+id/textView18"
            android:layout_width="107dp"
            android:layout_height="57dp"
            android:gravity="center_vertical"
            android:text="Password"
            android:textColor="@color/black"
            android:textSize="@dimen/_15sdp"
            android:textStyle="bold"
            app:layout_constraintBottom_toBottomOf="parent"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintHorizontal_bias="0.023"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toTopOf="parent"
            app:layout_constraintVertical_bias="0.59" />

    <EditText
            android:id="@+id/userPassword4"
            android:layout_width="244dp"
            android:layout_height="50dp"

            android:ems="10"
            android:hint="Password"
            android:inputType="textPassword"
            android:textColor="@color/black"
            android:textSize="@dimen/_15sdp"
            android:textStyle="bold"
            app:layout_constraintBottom_toBottomOf="parent"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintHorizontal_bias="0.838"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toTopOf="parent"
            app:layout_constraintVertical_bias="0.594" />

    <TextView
            android:id="@+id/textView24"
            android:layout_width="118dp"
            android:layout_height="52dp"
            android:gravity="center_vertical"
            android:text="confim Password"
            android:textColor="@color/black"
            android:textSize="@dimen/_15sdp"
            android:textStyle="bold"
            app:layout_constraintBottom_toBottomOf="parent"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintHorizontal_bias="0.03"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toTopOf="parent"
            app:layout_constraintVertical_bias="0.696" />

    <EditText
            android:id="@+id/confimPassword5"
            android:layout_width="232dp"
```

```xml
        android:layout_height="51dp"

        android:ems="10"
        android:hint="Password"
        android:inputType="textPassword"
        android:textColor="@color/black"
        android:textSize="@dimen/_15sdp"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.823"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.697" />

    <Button
        android:id="@+id/signupbutton"
        android:layout_width="174dp"
        android:layout_height="81dp"
        android:backgroundTint="@color/black"
        android:text="Sign up"
        android:textSize="@dimen/_20sdp"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.59"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.82" />

    <TextView
        android:id="@+id/login2"
        android:layout_width="112dp"
        android:layout_height="47dp"

        android:gravity="center"
        android:text="login"
        android:textColor="@color/black"
        android:textSize="@dimen/_20sdp"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.561"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.931" />

</androidx.constraintlayout.widget.ConstraintLayout>
```
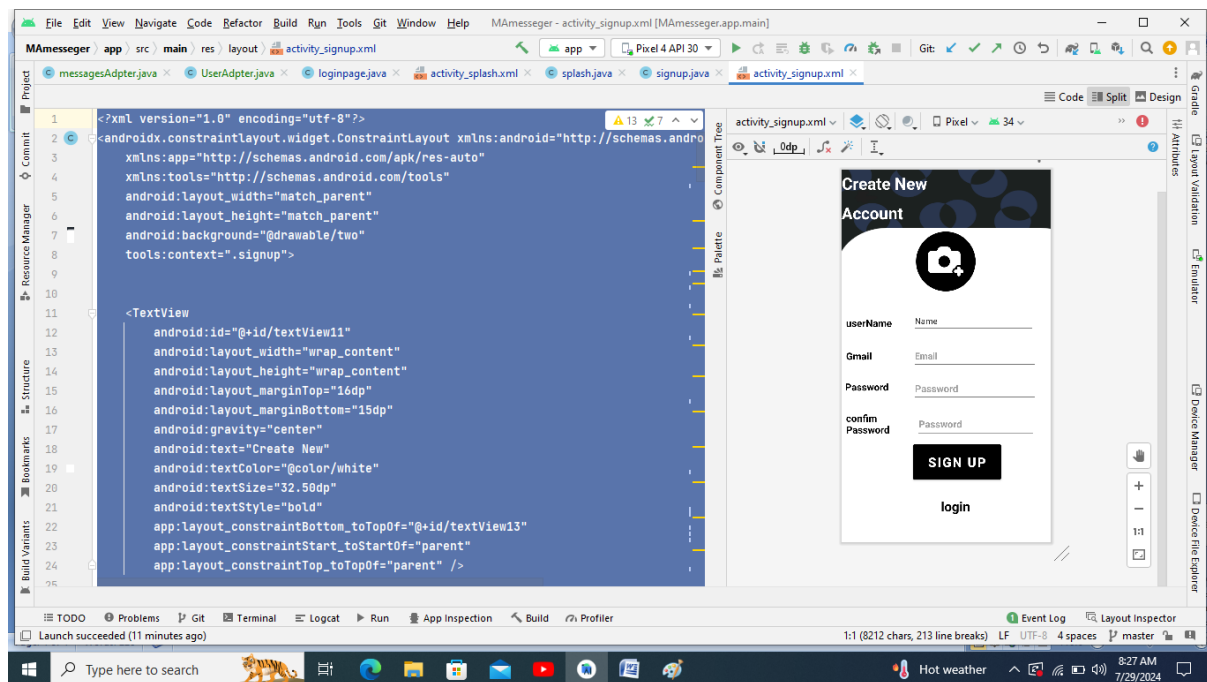
Java Code:

```java
package com.example.mamesseger;

import androidx.annotation.NonNull;
import androidx.annotation.Nullable;
import androidx.appcompat.app.AppCompatActivity;

import android.app.ProgressDialog;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.text.TextUtils;
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.OnSuccessListener;
import com.google.android.gms.tasks.Task;
import com.google.firebase.auth.AuthResult;
import com.google.firebase.auth.FirebaseAuth;
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 de.hdodenhof.circleimageview.CircleImageView;
```

```java
public class signup extends AppCompatActivity {
    TextView loginbut;
    EditText rg_username, rg_email, rg_password, rg_repassword;
    Button rg_signup;
    CircleImageView rg_profileImg;
    FirebaseAuth auth;
    String imageuri;
    Uri imageURI;
    String image;
    String emailPattern = "[a-zA-Z0-9._-]+@[a-z]+\\.+[a-z]+";
    FirebaseDatabase database;
    FirebaseStorage storage;
    ProgressDialog progressDialog;


    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_signup);
        progressDialog = new ProgressDialog(this);
        progressDialog.setMessage("Establishing The Account");
        progressDialog.setCancelable(false);
        getSupportActionBar().hide();
        database = FirebaseDatabase.getInstance();
        storage = FirebaseStorage.getInstance();
        auth = FirebaseAuth.getInstance();
        loginbut = findViewById(R.id.login2);
        rg_username = findViewById(R.id.userPersonName);
        rg_email = findViewById(R.id.sigupemail);
        rg_password = findViewById(R.id.userPassword4);
        rg_repassword = findViewById(R.id.confimPassword5);
        rg_profileImg = findViewById(R.id.profilerg1);
        rg_signup = findViewById(R.id.signupbutton);

        loginbut.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent intent = new Intent(signup.this, loginpage.class);
                startActivity(intent);
                finish();
            }
        });

        rg_signup.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String namee = rg_username.getText().toString();
                String emaill = rg_email.getText().toString();
                String Password = rg_password.getText().toString();
                String cPassword = rg_repassword.getText().toString();
                String status = "Hey I'm Using This Application";
                if (TextUtils.isEmpty(namee) || TextUtils.isEmpty(emaill)
||
                        TextUtils.isEmpty(Password) ||
TextUtils.isEmpty(cPassword)){
                    progressDialog.dismiss();
                    Toast.makeText(signup.this, "Please Enter Valid
Information", Toast.LENGTH_SHORT).show();
                }else  if (!emaill.matches(emailPattern)){
                    progressDialog.dismiss();
                    rg_email.setError("Type A Valid Email Here");
```

```java
                }else if (Password.length()<6){
                    progressDialog.dismiss();
                    rg_password.setError("Password Must Be 6 Characters Or
More");
                }else if (!Password.equals(cPassword)){
                    progressDialog.dismiss();
                    rg_password.setError("The Password Doesn't Match");

                }
                else{

auth.createUserWithEmailAndPassword(emaill,Password).addOnCompleteListener(
new OnCompleteListener<AuthResult>() {
                        @Override
                        public void onComplete(@NonNull Task<AuthResult>
task) {
                            if (task.isSuccessful()) {
                                String id =
task.getResult().getUser().getUid();
                                DatabaseReference reference =
database.getReference().child("user").child(id);
                                StorageReference storageReference =
storage.getReference().child("Upload").child(id);
                                if (imageURI!=null){

storageReference.putFile(imageURI).addOnCompleteListener(new
OnCompleteListener<UploadTask.TaskSnapshot>() {
                                        @Override
                                        public void onComplete(@NonNull
Task<UploadTask.TaskSnapshot> task) {
                                            if (task.isSuccessful()){

storageReference.getDownloadUrl().addOnSuccessListener(new
OnSuccessListener<Uri>() {
                                                    @Override
                                                    public void
onSuccess(Uri uri) {
                                                        imageuri =
uri.toString();
                                                        Users users = new
Users(id,namee,emaill,Password,imageuri,status);

reference.setValue(users).addOnCompleteListener(new
OnCompleteListener<Void>() {
                                                            @Override
                                                            public void
onComplete(@NonNull Task<Void> task) {
                                                                if
(task.isSuccessful()){

progressDialog.show();
                                                                    Intent
intent = new Intent(signup.this,MainActivity.class);

startActivity(intent);

finish();
                                                                }else {

Toast.makeText(signup.this, "Error in creating the user",
Toast.LENGTH_SHORT).show();
```

```java
                                                }
                                            }
                                        });
                                    }
                                });
                            }
                        }
                    });
                }else {
                    String status = "Hey I'm Using This
Application";
                    imageuri =
"https://firebasestorage.googleapis.com/v0/b/mamesseger-
4868d.appspot.com/o/main.png?alt=media&token=bc78091d-6659-4cd6-ab2e-
acc32e55afe3";
                    Users users = new
Users(id,namee,emaill,Password,imageuri,status);

reference.setValue(users).addOnCompleteListener(new
OnCompleteListener<Void>() {
                        @Override
                        public void onComplete(@NonNull
Task<Void> task) {
                            if (task.isSuccessful()){
                                progressDialog.show();
                                Intent intent = new
Intent(signup.this,MainActivity.class);

                                startActivity(intent);
                                finish();
                            }else {
                                Toast.makeText(signup.this,
"Error in creating the user", Toast.LENGTH_SHORT).show();
                            }
                        }
                    });
                }
            } else {
                Toast.makeText(signup.this,
task.getException().getMessage(), Toast.LENGTH_SHORT).show();
            }

            }
        });
    }


    rg_profileImg.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            Intent intent = new Intent();
            intent.setType("image/*");
            intent.setAction(Intent.ACTION_GET_CONTENT);
            startActivityForResult(Intent.createChooser(intent, "Select
Picture"), 10);
        }
    });

    }
```

```java
    @Override
    protected void onActivityResult(int requestCode, int resultCode,
@Nullable Intent data) {
        super.onActivityResult(requestCode, resultCode, data);
        if (requestCode == 10) {
            if (data != null) {
                imageURI = data.getData();
                rg_profileImg.setImageURI(imageURI);
            }
        }
    }
}
```