

activity_main.xml

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

```
<TextView
    android:id="@+id/txt_5"
    android:layout_width="218dp"
    android:layout_height="61dp"
    android:layout_marginStart="97dp"
    android:layout_marginTop="40dp"
    android:layout_marginEnd="96dp"
    android:layout_marginBottom="630dp"
    android:text="SIGN UP"
    android:textAlignment="center"
    android:textColor="#5E35B1"
    android:textSize="34sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
```

```
<EditText
    android:id="@+id/txt_6"
    android:layout_width="226dp"
    android:layout_height="48dp"
    android:layout_marginStart="97dp"
    android:layout_marginTop="209dp"
    android:layout_marginEnd="88dp"
    android:layout_marginBottom="474dp"
    android:ems="10"
    android:inputType="text"
    android:text="email"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
```

```
<EditText
    android:id="@+id/txt_7"
```

```

        android:layout_width="221dp"
        android:layout_height="49dp"
        android:layout_marginStart="99dp"
        android:layout_marginTop="332dp"
        android:layout_marginEnd="91dp"
        android:layout_marginBottom="350dp"
        android:ems="10"
        android:inputType="text"
        android:text="password"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

<Button
    android:id="@+id/btn2"
    android:layout_width="156dp"
    android:layout_height="75dp"
    android:layout_marginStart="137dp"
    android:layout_marginTop="508dp"
    android:layout_marginEnd="118dp"
    android:layout_marginBottom="148dp"
    android:text="sign up"
    android:textSize="18sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

Mainactivity.java

```

package com.example.signup;

import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;

```

```

import android.widget.EditText;
import android.widget.Toast;
import java.util.regex.Pattern;
public class MainActivity extends AppCompatActivity {
    EditText email_Sign, password_Sign;
    Button signUp_btn;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        email_Sign=(EditText)findViewById(R.id.txt_6);
        password_Sign=(EditText)findViewById(R.id.txt_7);
        signUp_btn =(Button)findViewById(R.id.btn2);
        signUp_btn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                String email = email_Sign.getText().toString();
                String password = password_Sign.getText().toString();
                if (!isValidPassword(password)) {
                    Toast.makeText(MainActivity.this, "Password doesn't match rules",
Toast.LENGTH_SHORT).show();
                    return;
                }
                Intent intent = new Intent(MainActivity.this, login.class);
                intent.putExtra("email", email);
                intent.putExtra("password", password);
                startActivity(intent);
            }
        });
    }
    Pattern lowerCase= Pattern.compile("^[a-z].*$");
    Pattern upperCase=Pattern.compile("^[A-Z].*$");
    Pattern number = Pattern.compile("^[0-9].*$");
    Pattern special_Chara = Pattern.compile("^[^a-zA-Z0-9].*$");
    private Boolean isValidPassword(String password){
        if(password.length()<8) {
            return false;
        }
        if(!lowerCase.matcher(password).matches()) {
            return false;
        }
        if(!upperCase.matcher(password).matches()) {
            return false;
        }
        if(!number.matcher(password).matches()) {

```

```

        return false;
    }
    if(!special_Chara.matcher(password).matches()) {
        return false;
    }
    return true;
}
}

```

activity_login.xml

```

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

<TextView
    android:id="@+id/txt_5"
    android:layout_width="218dp"
    android:layout_height="61dp"
    android:layout_marginStart="97dp"
    android:layout_marginTop="40dp"
    android:layout_marginEnd="96dp"
    android:layout_marginBottom="630dp"
    android:text="LOGIN"
    android:textAlignment="center"
    android:textColor="#5E35B1"
    android:textSize="34sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

<EditText

```

```
android:id="@+id/txt_6"
android:layout_width="226dp"
android:layout_height="48dp"
android:layout_marginStart="97dp"
android:layout_marginTop="209dp"
android:layout_marginEnd="88dp"
android:layout_marginBottom="474dp"
android:ems="10"
android:inputType="text"
android:text="email"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
```

<EditText

```
android:id="@+id/txt_7"
android:layout_width="221dp"
android:layout_height="49dp"
android:layout_marginStart="99dp"
android:layout_marginTop="332dp"
android:layout_marginEnd="91dp"
android:layout_marginBottom="350dp"
android:ems="10"
android:inputType="text"
android:text="password"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
```

<Button

```
android:id="@+id/btn2"
android:layout_width="156dp"
android:layout_height="75dp"
android:layout_marginStart="137dp"
android:layout_marginTop="508dp"
android:layout_marginEnd="118dp"
android:layout_marginBottom="148dp"
android:text="login"
android:textSize="18sp"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
```

</androidx.constraintlayout.widget.ConstraintLayout>

Login.java

```
package com.example.signup;

import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
public class login extends AppCompatActivity {
    EditText emailEditText,passwordEditText;
    Button login_btn;
    int counter=2;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_login);
        emailEditText=(EditText)findViewById(R.id.txt_6);
        passwordEditText=(EditText)findViewById(R.id.txt_7);
        login_btn=(Button)findViewById(R.id.btn2);
        String registeredEmail = getIntent().getStringExtra("email");
        String registeredPassword= getIntent().getStringExtra("password");
        login_btn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {

                String email = emailEditText.getText().toString();
                String password = passwordEditText.getText().toString();
                if(registeredEmail.equals(email) && registeredPassword.equals(password))
                {
                    Intent intent= new Intent(login.this,loginsuccessful.class);
                    startActivity(intent);
                }
                else {
                    Toast.makeText(login.this,"Invalid
Credentials",Toast.LENGTH_SHORT).show();
                }
                counter--;
            }
        });
    }
}
```

```

        if(counter==0){
            Toast.makeText(getApplicationContext(),"failed to login
attempts",Toast.LENGTH_SHORT).show();
            login_btn.setEnabled(false);
        }
    }
});
}
}

```

activity_loginsuccessful.xml

```

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

    <TextView
        android:id="@+id/txt_4"
        android:layout_width="342dp"
        android:layout_height="108dp"
        android:layout_marginStart="32dp"
        android:layout_marginTop="247dp"
        android:layout_marginEnd="37dp"
        android:layout_marginBottom="376dp"
        android:text="LOGIN SUCCESSFULL!!!"
        android:textAlignment="center"
        android:textColor="#00ACC1"
        android:textSize="34sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

Loginsuccesful.java

```
package com.example.signup;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
public class loginsuccessful extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_loginsuccessful);
    }
}
```