**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"  
 android:orientation="vertical"  
 tools:context=".Signup">  
  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="95dp"  
 android:layout\_marginEnd="90dp"  
 android:text="Signup Activity"  
 android:textColor="@color/black"  
 android:textSize="30dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="1.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.092" />  
  
 <EditText  
 android:id="@+id/username"  
 android:layout\_width="398dp"  
 android:layout\_height="100dp"  
 android:hint="Username : "  
 android:textAlignment="textStart"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.461"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.313" />  
  
 <EditText  
 android:id="@+id/password"  
 android:layout\_width="389dp"  
 android:layout\_height="85dp"  
 android:hint="Password : "  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.272"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <Button  
 android:id="@+id/signup"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="150dp"  
 android:text="Sign Up"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.116"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.651" />  
  
  
</androidx.constraintlayout.widget.ConstraintLayout>

**Activity\_Signin.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:orientation="vertical"  
 tools:context=".Signin">  
  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="95dp"  
 android:layout\_marginEnd="90dp"  
 android:text="Login Activity"  
 android:textColor="@color/black"  
 android:textSize="30dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="1.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.121" />  
  
 <EditText  
 android:id="@+id/username"  
 android:layout\_width="match\_parent"  
 android:layout\_height="89dp"  
 android:hint="Username : "  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="1.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.272" />  
  
 <EditText  
 android:id="@+id/password"  
 android:layout\_width="match\_parent"  
 android:layout\_height="102dp"  
 android:hint="Password : "  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.481" />  
  
 <Button  
 android:id="@+id/login"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="150dp"  
 android:text="Login"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.021"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.641" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

**Activity\_Welcome.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=".Welcome">  
  
 <TextView  
 android:id="@+id/textView"  
 android:layout\_width="182dp"  
 android:layout\_height="165dp"  
 android:text="WELCOME TO HOME PAGE"  
 android:textAlignment="center"  
 android:textColor="#D32F2F"  
 android:textSize="34sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.498"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.439" />  
</androidx.constraintlayout.widget.ConstraintLayout>

**Signup.JAVA**

package com.example.signup;  
import androidx.appcompat.app.AppCompatActivity;  
import android.os.Bundle;  
import android.widget.Button;  
import android.widget.EditText;  
import android.content.Intent;  
import android.view.View;  
import android.widget.Toast;  
import java.util.regex.Pattern;  
  
public class Signup extends AppCompatActivity {  
 EditText username, pwd;  
 Button signup;  
  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 username = (EditText) findViewById(R.id.*username*);  
 pwd = (EditText) findViewById(R.id.*password*);  
 signup = (Button) findViewById(R.id.*signup*);  
 signup.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 String email = username.getText().toString();  
 String userpwd = pwd.getText().toString();  
 if (email.matches("")) {  
 Toast.*makeText*(Signup.this, "Username cannot be empty", Toast.*LENGTH\_LONG*).show();  
 return;  
 }  
 if (!isvalidPassword(userpwd)) {  
 Toast.*makeText*(Signup.this, "Invalid Password", Toast.*LENGTH\_LONG*).show();  
 return;  
 }  
 Intent intent = new Intent(Signup.this, Signin.class);  
 intent.putExtra("email", email);  
 intent.putExtra("userpwd", userpwd);  
 startActivity(intent);  
 }  
 });  
 }  
 Pattern lowercase = Pattern.*compile*("^.\*[a-z].\*$");  
 Pattern uppercase = Pattern.*compile*("^.\*[A-Z].\*$");  
 Pattern number = Pattern.*compile*("^.\*[0-9].\*$");  
 Pattern special = Pattern.*compile*("^.\*[@#$%^&\*(){},.;/].\*$");  
  
 private boolean isvalidPassword(String userpwd) {  
 if (userpwd.length() < 8) {  
 return false;  
 }  
 if(!lowercase.matcher(userpwd).matches()){  
 return false;  
 }  
 if(!uppercase.matcher(userpwd).matches()){  
 return false;  
 }  
 if(!number.matcher(userpwd).matches()){  
 return false;  
 }  
 if(!special.matcher(userpwd).matches()){  
 return false;  
 }  
 return true;  
 }  
}

**Signin.JAVA**

package com.example.signup;  
import androidx.appcompat.app.AppCompatActivity;  
import android.os.Bundle;  
import android.content.Intent;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.Toast;  
  
public class Signin extends AppCompatActivity {  
 EditText eusername, epwd;  
 Button login;  
 int count=0;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_signin*);  
 eusername = (EditText) findViewById(R.id.*username*);  
 epwd = (EditText)findViewById(R.id.*password*);  
 login = (Button)findViewById(R.id.*login*);  
 String regemail=getIntent().getStringExtra("email");  
 String regpwd=getIntent().getStringExtra("userpwd");  
 login.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 String newemail=eusername.getText().toString();  
 String newpwd=epwd.getText().toString();  
 if(regemail.equals(newemail) && regpwd.equals(newpwd)){  
 Toast.*makeText*(Signin.this, "Login Successful", Toast.*LENGTH\_LONG*).show();  
 Intent intent=new Intent(Signin.this,Welcome.class);  
 startActivity(intent);  
 eusername.setText("");  
 epwd.setText("");  
 }  
 else{  
 count++;  
 Toast.*makeText*(Signin.this, "Login Failed "+count, Toast.*LENGTH\_LONG*).show();  
 if(count==3)  
 {  
 login.setEnabled(false);  
 Toast.*makeText*(Signin.this, "Login Failed "+count, Toast.*LENGTH\_LONG*).show();  
 }  
 }  
 });

}  
}

**Welcome.JAVA**

package com.example.signup;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
  
public class Welcome extends AppCompatActivity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_welcome*);  
 }  
}