

IN MANIFEST AFTER ACTIVITY

```
<activity
    android:name=".HomeActivity"
    android:exported="true">

</activity>
```

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"

    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:gravity="center"
    android:padding="16dp"
    >

    <EditText
        android:id="@+id/username"
        android:layout_width="match_parent"
        android:layout_height="48dp"
        android:layout_marginBottom="10dp"
        android:hint="Username"
        android:inputType="text"
        android:padding="10dp"
        />

    <EditText
        android:id="@+id/password"
        android:layout_width="match_parent"
        android:layout_height="48dp"
        android:layout_marginBottom="10dp"
        android:hint="Password"
        android:inputType="text"
        android:padding="10dp"
        />

    <Button
        android:id="@+id/login"
        android:layout_width="match_parent"
        android:layout_height="48dp"
```

```

        android:layout_marginBottom="10dp"
        android:text="Log In"/>

<Button
    android:id="@+id/signup"
    android:layout_width="match_parent"
    android:layout_height="48dp"
    android:layout_marginBottom="10dp"
    android:text="Sign Up"/>

</LinearLayout>

```

homeactivity.xml

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:orientation="vertical"
        android:gravity="center"
        android:padding="16dp"
        >
        <TextView
            android:id="@+id/welcome"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Welcom !!"
            android:textColor="@color/black"
            android:textSize="18sp"
            android:gravity="center"
            android:padding="16dp"
            />
        <Button
            android:id="@+id/logout"
            android:layout_width="match_parent"
            android:layout_height="48dp"
            android:layout_marginBottom="10dp"
            android:text="Log Out"/>
    </LinearLayout>

```

```
</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.java

```
package com.example.ad3m;

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 androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {
    EditText username, password;
    Button login, signup;
    DBHelper DB;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_main);

        username = findViewById(R.id.username);
        password = findViewById(R.id.password);
        login = findViewById(R.id.login);
        signup = findViewById(R.id.signup);

        DB = new DBHelper(this);

        signup.setOnClickListener(new View.OnClickListener() {

            @Override
            public void onClick(View v) {
                String user = username.getText().toString();
                String passw = password.getText().toString();

                if(user.isEmpty() || passw.isEmpty()){
                    Toast.makeText(MainActivity.this, "Please enter all fields",
Toast.LENGTH_SHORT).show();
                }
                else{
                    boolean check = DB.checkUsername(user);
                    if(check) {
```

```

        Toast.makeText(MainActivity.this, "User already exists",
Toast.LENGTH_SHORT).show();

    }
    else {
        boolean inser = DB.insertData(user, passw);
        if (inser) {
            Toast.makeText(MainActivity.this, "Registered
successfully", Toast.LENGTH_SHORT).show();
        }
        else {
            Toast.makeText(MainActivity.this, "Registration
failed", Toast.LENGTH_SHORT).show();
        }
    }
}
}

});

login.setOnClickListener(new View.OnClickListener() {

    @Override
    public void onClick(View v) {
        String user = username.getText().toString();
        String passw = password.getText().toString();

        if (user.isEmpty() || passw.isEmpty()) {
            Toast.makeText(MainActivity.this, "Please enter all fields",
Toast.LENGTH_SHORT).show();
        }
        else {
            boolean check = DB.checkUsernamePassword(user, passw);
            if (check) {
                Toast.makeText(MainActivity.this, "Login successful !!",
Toast.LENGTH_SHORT).show();

                Intent intent = new Intent(MainActivity.this,
HomeActivity.class);
                intent.putExtra("username", user);

                startActivity(intent);
            }
            else {
                Toast.makeText(MainActivity.this, "Login failed",
Toast.LENGTH_SHORT).show();
            }
        }
    }
});

```

```

    }
}

});

}
}

```

HomeActivity.java

```

package com.example.ad3m;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;

import androidx.appcompat.app.AppCompatActivity;

public class HomeActivity extends AppCompatActivity {
    TextView welcomeText;
    Button logout;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.homeactivity);
        welcomeText = findViewById(R.id.welcome);
        logout = findViewById(R.id.logout);
        String username = getIntent().getStringExtra("username");
        welcomeText.setText("Welcome, " + username + "!");
        logout.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent intent = new Intent(HomeActivity.this,
MainActivity.class);

                intent.setFlags(Intent.FLAG_ACTIVITY_NEW_TASK |
Intent.FLAG_ACTIVITY_CLEAR_TASK);
                startActivity(intent);
                finish();
            }
        });
    }
}

```

DBHelper.java

```

package com.example.ad3m;

```

```

import android.content.ContentValues;
import android.content.Context;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;

import androidx.annotation.Nullable;

public class DBHelper extends SQLiteOpenHelper {
    public static final String DBName = " ";
    public DBHelper(@Nullable Context context) {
        super(context, DBName, null, 1);
    }

    @Override
    public void onCreate(SQLiteDatabase db) {
        db.execSQL("CREATE TABLE users1 (username TEXT PRIMARY KEY, password
TEXT )");
    }

    @Override
    public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {
        db.execSQL("drop table if exists users1");
    }

    public boolean insertData(String username, String password){
        SQLiteDatabase DB = this.getWritableDatabase();
        ContentValues cv = new ContentValues();
        cv.put("username", username);
        cv.put("password", password);

        long result = DB.insert("users1", null,cv);
        return result!= 1;
    }

    public boolean checkUsername(String username){
        SQLiteDatabase DB = this.getWritableDatabase();
        Cursor c = DB.rawQuery("Select * from users1 where username = ?", new
String[]{username});
        return c.getCount()>0;
    }

    public boolean checkUsernamePassword(String username, String password){
        SQLiteDatabase DB = this.getWritableDatabase();
        Cursor c = DB.rawQuery("Select * from users1 where username = ? and
password=?", new String[]{username, password});
        return c.getCount()>0;
    }
}

```

