Lab Exercise 11: Explicit Intent

ActivityMain.java

```
package com.example.lab11;

import androidx.appcompat.app.AppCompatActivity;

import android.app.Activity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.EditText;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }

    public void LoginCheck(View view) {
        EditText username = findViewById(R.id.loginUsername);
        EditText password = findViewById(R.id.loginPassword);

        if (username.getText().toString().equals("thenishantgiri") &&
password.getText().toString().equals("rootpass")) {
            Toast.makeText(this, "Successful Login", Toast.LENGTH_SHORT).show();

            Intent loginIntent = new Intent(this, Activity2.class);
            String value = username.getText().toString();
            loginIntent.putExtra("username", value);
            startActivity(loginIntent);
        } else {
            Toast.makeText(this, "Unsuccessful Login", Toast.LENGTH_LONG).show();
        }
    }
}
```

strings.xml

```
<resources>
    <string name="app_name">Lab10</string>
    <string name="login_page">Login Page</string>
    <string name="username">username</string>
    <string name="password">password</string>
    <string name="login">Login</string>
    <string name="welcome">Welcome </string>
    <string name="logout">Logout</string>
</resources>
```

AndroidManifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.lab11">

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.Lab11">
        <activity
            android:name=".Activity2"
            android:exported="false"
            android:label="Activity2"
            android:theme="@style/Theme.Lab11" />

        <activity
            android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>

</manifest>
```

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/text"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:fontFamily="serif"
        android:text="@string/login_page"
        android:textSize="24sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.332" />

    <EditText
        android:id="@+id/loginUsername"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="30sp"
        android:autofillHints=""
        android:ems="10"
        android:hint="@string/username"
        android:inputType="textPersonName"
        android:minHeight="48dp"
        android:textColorHint="#757575"
        app:layout_constraintEnd_toEndOf="@id/text"
        app:layout_constraintStart_toStartOf="@id/text"
        app:layout_constraintTop_toBottomOf="@+id/text" />

    <EditText
        android:id="@+id/loginPassword"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:hint="@string/password"
        android:importantForAutofill="no"
        android:inputType="textPassword"
        android:minHeight="48dp"
        android:textColorHint="#757575"
        app:layout_constraintEnd_toEndOf="@id/loginUsername"
        app:layout_constraintStart_toStartOf="@id/loginUsername"
        app:layout_constraintTop_toBottomOf="@id/loginUsername" />

    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="30sp"
        android:onClick="LoginCheck"
        android:text="@string/login"
        app:layout_constraintEnd_toEndOf="@id/loginPassword"
        app:layout_constraintStart_toStartOf="@id/loginPassword"
        app:layout_constraintTop_toBottomOf="@id/loginPassword" />

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

Activity2.java

```
package com.example.lab11;

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

import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;

public class Activity2 extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_2);

        TextView textView = findViewById(R.id.welcomeMsg);

        Bundle myIntent = getIntent().getExtras();
        String data = myIntent.getString("username");

        textView.setText("Welcome " + data);

        Button btn = findViewById(R.id.logoutBtn);

        btn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                AlertDialog.Builder warning = new AlertDialog.Builder(Activity2.this);
                warning.setTitle("Logout?");
                warning.setMessage("Are you sure?");
                warning.setPositiveButton("Yes", new DialogInterface.OnClickListener()
{
                    @Override
                    public void onClick(DialogInterface dialogInterface, int i) {
                        Toast.makeText(Activity2.this, "Successful Logout",
Toast.LENGTH_SHORT).show();
                        Intent logout = new Intent(getApplicationContext(),
MainActivity.class);
                        startActivity(logout);
                    }
                });
                warning.setNegativeButton("No", new DialogInterface.OnClickListener() {
                    @Override
                    public void onClick(DialogInterface dialogInterface, int i) {
                        dialogInterface.dismiss();
                    }
                });
                AlertDialog alertObj = warning.create();
                alertObj.show();
            }
        });
    }
}
```

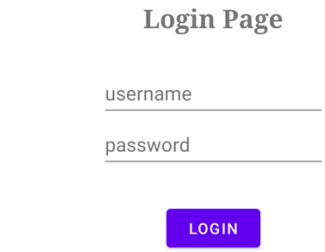
activity_2.xml

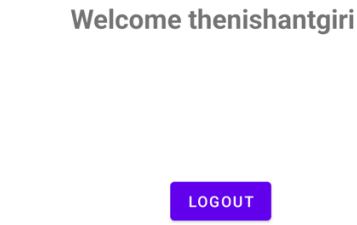
```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".Activity2">

    <TextView
        android:id="@+id/welcomeMsg"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/welcome"
        android:textSize="25sp"
        android:textStyle="bold"
        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="0.37" />

    <Button
        android:id="@+id/logoutBtn"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/logout"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="@+id/welcomeMsg"
        app:layout_constraintHorizontal_bias="0.545"
        app:layout_constraintStart_toStartOf="@id/welcomeMsg"
        app:layout_constraintTop_toBottomOf="@id/welcomeMsg"
        app:layout_constraintVertical_bias="0.35" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

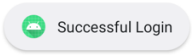
OUTPUT

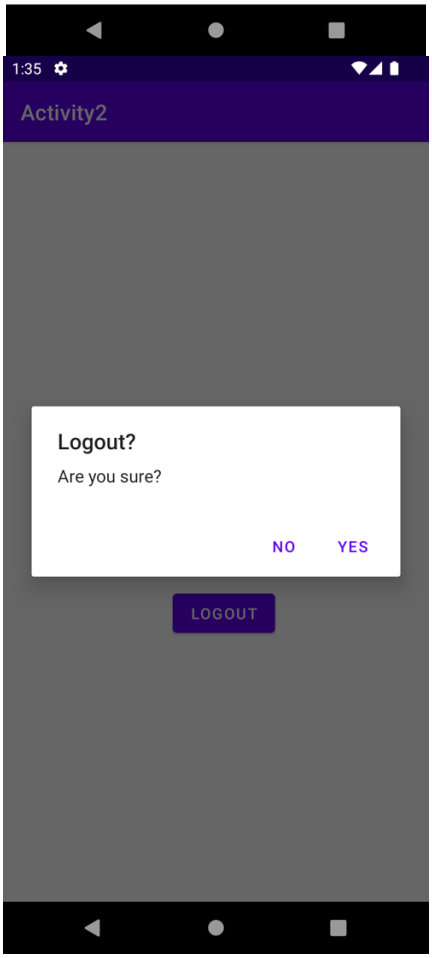
1:35
Lab10

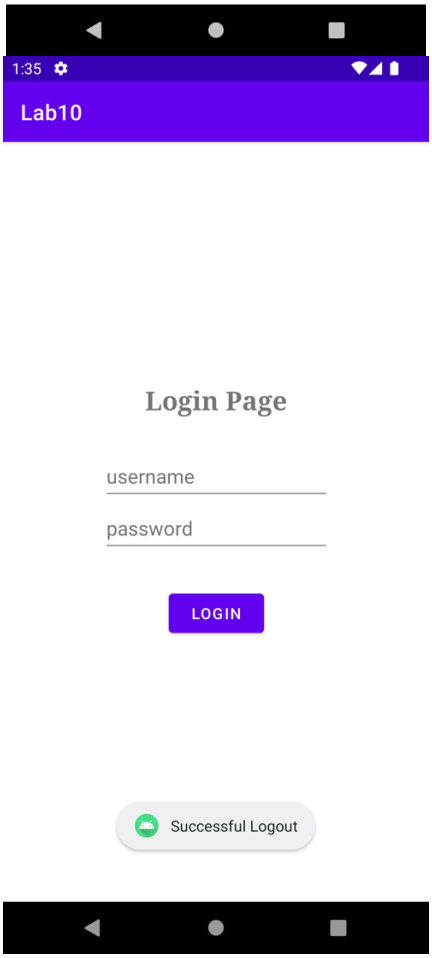
1:35
Activity2


Login Page
username
password
LOGIN


Welcome thenishantgiri
LOGOUT


Successful Login


1:35
Activity2
Logout?
Are you sure?
NO
YES
LOGOUT


1:35
Lab10
Login Page
username
password
LOGIN
Successful Logout