# **Implicit Intent**

**Objective:** The objective of this Android program is to demonstrate the use of **implicit intents**. Specifically, the program allows a user to open a web browser by clicking a button. The application uses an implicit intent to request an action (Intent.ACTION\_VIEW) without specifying the component (activity) that should handle the intent. Instead, it allows the Android system to choose an appropriate application (e.g., a browser) to handle the request, based on the type of data provided (a URL).

#### XML Code:

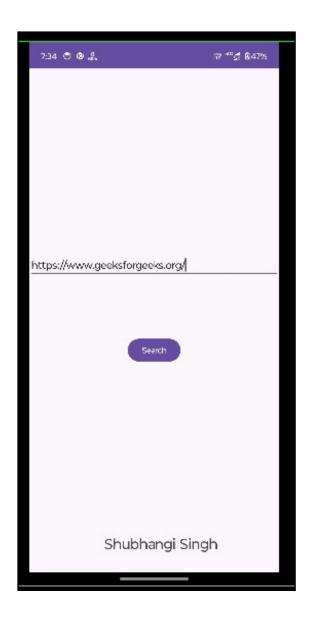
```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:app="http://schemas.android.com/apk/res-auto"
 xmlns:tools="http://schemas.android.com/tools"
  android:id="@+id/main"
  android:layout width="match parent"
 android:layout_height="match_parent"
 tools:context=".MainActivity">
  <EditText
    android:id="@+id/editText"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Enter Url"
    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"
```

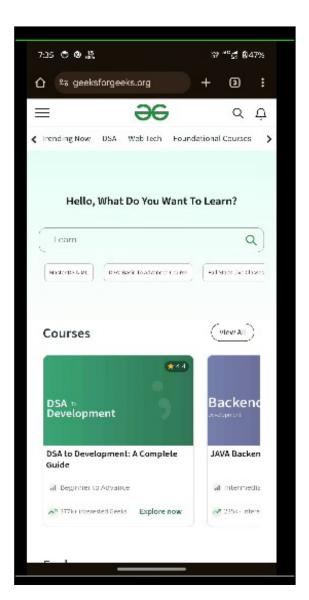
```
app:layout constraintVertical bias="0.384" />
  <Button
    android:id="@+id/btn"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:onClick="search"
    android:text="Search"
    app:layout constraintBottom toBottomOf="parent"
    app:layout constraintEnd toEndOf="parent"
    app:layout constraintStart toStartOf="parent"
    app:layout constraintTop toBottomOf="@+id/editText"
    app:layout constraintVertical bias="0.221" />
  <TextView
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:text="Shubhangi Singh"
    android:textSize="25sp"
    app:layout constraintBottom toBottomOf="parent"
    app:layout constraintEnd toEndOf="parent"
    app:layout constraintHorizontal bias="0.551"
    app:layout constraintStart toStartOf="parent"
    app:layout constraintTop toBottomOf="@+id/btn"
    app:layout constraintVertical bias="0.899" />
</androidx.constraintlayout.widget.ConstraintLayout>
Java Code:
package com.example.implicit;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.View;
```

import android.widget.Button;

```
import android.widget.EditText;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    EditText editText;
    Button button;
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    button = findViewById(R.id.btn);
    editText = (EditText) findViewById(R.id.editText);
    button.setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View view) {
        String url=editText.getText().toString();
        Intent intent = new Intent(Intent.ACTION VIEW, Uri.parse(url));
        startActivity(intent);
      }
    });
  }
}
```

### **Output:**





# **Explicit Intent**

**Objective:** The objective of this Android program is to demonstrate the use of **explicit intents** to navigate between activities within the same application. Explicit intents allow developers to explicitly specify the target activity to be started by providing its class name.

#### XML Code(activity\_main.xml):

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
 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:id="@+id/main"
  android:layout width="match parent"
 android:layout_height="match_parent"
 tools:context=".MainActivity">
  <TextView
    android:id="@+id/editText"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:text="Welcome to GFG Home Screen"
    android:textAlignment="center"
    android:textSize="28sp"
    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="0.359" />
  <Button
    android:id="@+id/btn1"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
```

```
android:onClick="newsScreen"
  android:text="Go to News Screen"
  app:layout constraintBottom toBottomOf="parent"
  app:layout constraintEnd toEndOf="parent"
  app:layout constraintStart toStartOf="parent"
  app:layout constraintTop toBottomOf="@+id/editText"
  app:layout constraintVertical bias="0.212" />
<TextView
  android:id="@+id/textView"
  android:layout width="wrap content"
  android:layout_height="wrap_content"
  android:text=" Shubhangi Singh "
  android:textSize="25sp"
  app:layout_constraintBottom_toBottomOf="parent"
  app:layout constraintEnd toEndOf="parent"
  app:layout_constraintHorizontal_bias="0.568"
  app:layout constraintStart toStartOf="parent"
  app:layout constraintTop toBottomOf="@+id/btn1"
  app:layout constraintVertical bias="0.802" />
```

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

### Java Code(MainActivity.java):

```
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Toast;
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;
```

```
public class MainActivity extends AppCompatActivity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
  }
  public void newsScreen(View view){
    Intent i = new Intent(getApplicationContext(), MainActivity2.class);
    startActivity(i);
    Toast.makeText(this, "Activity two called", Toast.LENGTH SHORT).show();
  }
}
XML Code(activity main2.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:id="@+id/main"
  android:layout_width="match_parent"
  android:layout height="match parent"
  tools:context=".MainActivity2">
  <TextView
    android:id="@+id/editText"
    android:layout width="match parent"
    android:layout_height="wrap_content"
    android:text="Welcome to GFG News Screen"
    android:textAlignment="center"
    android:textSize="28sp"
    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="0.297" />
<Button
  android:id="@+id/btn2"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:onClick="homeScreen"
  android:text="Go to Home Screen"
  app:layout constraintBottom toBottomOf="parent"
  app:layout constraintEnd toEndOf="parent"
  app:layout constraintStart toStartOf="parent"
  app:layout_constraintTop_toBottomOf="@+id/editText"
  app:layout constraintVertical bias="0.241" />
<TextView
  android:id="@+id/textView"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:text=" Shubhangi Singh "
  android:textSize="25sp"
  app:layout constraintBottom toBottomOf="parent"
  app:layout constraintEnd toEndOf="parent"
  app:layout_constraintHorizontal bias="0.512"
  app:layout_constraintStart_toStartOf="parent"
  app:layout constraintTop toBottomOf="@+id/btn2"
  app:layout constraintVertical bias="0.899" />
```

</androidx.constraintlayout.widget.ConstraintLayout>

### Java Code(MainActivity2.java):

```
package com.example.explicit;
import android.content.Intent;
import android.os.Bundle;
```

```
import android.view.View;
import android.widget.Toast;
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;
public class MainActivity2 extends AppCompatActivity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main2);
  }
  public void homeScreen(View view) {
    Intent i = new Intent(getApplicationContext(), MainActivity.class);
    startActivity(i);
    Toast.makeText(this, "Activity one called", Toast.LENGTH_SHORT).show();
  }
}
```

### **Output:**

