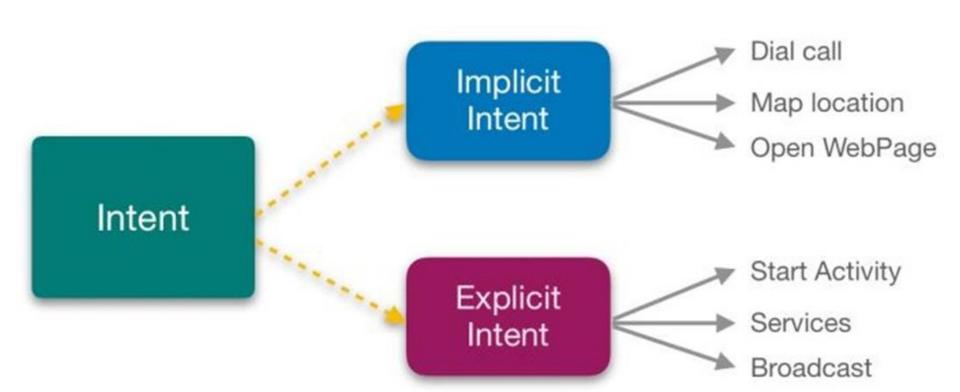
Implicit Intent



There are two types of intents in android: implicit and explicit.

1) Implicit Intent

Implicit Intent doesn't specify the component. In such case, intent provides information of available components provided by the system that is to be invoked. For example, you may write the following code to view the webpage.

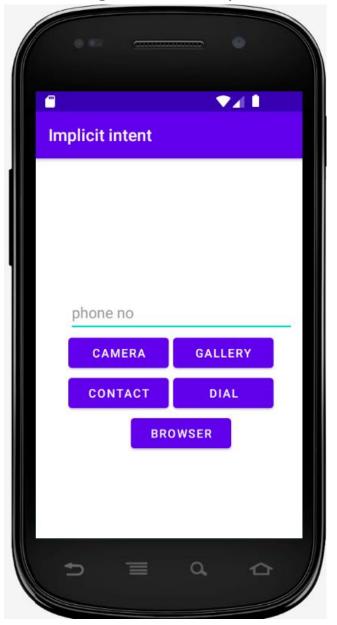
- 1.Intent intent=new Intent(Intent.ACTION_VIEW);
- 2.intent.setData(Uri.parse("http://www.google.com"));
- 3.startActivity(intent);

2) Explicit Intent

Explicit Intent speci es the component. In such case, intent provides the external class to be invoked.

- 1.Intent i = new Intent(getApplicationContext(),ActivityTwo.class);
- 2.startActivity(i);

Create an application to implement implicit intent with following functionality.



Activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<GridLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  xmlns:app="http://schemas.android.com/apk/res-auto"
                                                         <Button
  xmlns:tools="http://schemas.android.com/tools"
                                                              android:id="@+id/buttonGallery"
  android:layout_width="match_parent"
                                                              android:layout width="120dp"
  android:layout_height="match_parent"
                                                              android:layout_height="wrap_content"
  android:columnCount="2"
                                                              android:text="Gallery" />
  android:layout_marginTop="150dp"
  android:layout_marginLeft="30dp"
                                                         <Button
  android:padding="10dp"
                                                              android:id="@+id/buttonContact"
  tools:context=".MainActivity">
                                                              android:layout_width="120dp"
                                                              android:layout height="wrap content"
  <FditText
                                                              android:text="Contact" />
    android:id="@+id/edtphone"
    android:layout width="match parent"
                                                           <Button
    android:layout_columnSpan="2"
                                                              android:id="@+id/buttonDial"
    android:hint="phone no"
                                                              android:layout width="120dp"
    android:minHeight="48dp"></EditText>
                                                              android:layout_height="wrap_content"
  <Button
                                                              android:text="Dial" />
    android:id="@+id/buttonCamera"
    android:layout_width="120dp"
                                                           <Button
    android:layout_height="wrap_content"
                                                              android:id="@+id/buttonBrowser"
    android:text="Camera"
                                                              android:layout_width="120dp"
    android:layout_marginRight="5dp"/>
                                                              android:layout_height="wrap_content"
                                                              android:layout_columnSpan="2"
                                                         android:layout_gravity="center_horizontal"
                                                              android:text="Browser" />
                                                         </GridLayout>
```

```
package com.example.implicitintent;
import androidx.appcompat.app.AppCompatActivity;
import android.annotation.SuppressLint;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.provider.MediaStore;
import android.view.View;
import android.widget.EditText;
public class MainActivity extends AppCompatActivity {
  @SuppressLint("MissingInflatedId")
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    findViewById(R.id.buttonCamera).setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View view) {
         Intent i=new Intent(MediaStore.ACTION IMAGE CAPTURE);
         startActivity(i);
     });
```

MainActivity.java contd..

```
findViewById(R.id.buttonGallery).setOnClickListener(new View.OnClickListener() {
  @Override
  public void onClick(View view) {
     Intent i=new Intent(Intent.ACTION_VIEW);
     //i.setAction(Intent.ACTION_VIEW);
     i.setData(Uri.parse("content://media/external/images/media/"));
     startActivity(i);
});
findViewById(R.id.buttonContact).setOnClickListener(new View.OnClickListener() {
  @Override
  public void onClick(View view) {
     Intent i=new Intent(Intent.ACT/ON_V/EW);
     i.setData(Uri.parse("content://contacts/people/"));
     startActivity(i);
});
```

MainActivity.java contd..

```
findViewById(R.id.buttonBrowser).setOnClickListener(new View.OnClickListener() {
        @Override
       public void onClick(View view) {
          Intent i=new Intent(Intent.ACTION_VIEW,Uri.parse("http://www.google.com/"));
          startActivity(i);
     });
     EditText phone=findViewById(R.id.edtphone);
     findViewById(R.id.buttonDial).setOnClickListener(new View.OnClickListener() {
        @Override
       public void onClick(View view) {
          Intent i=new Intent(Intent.ACTION_DIAL,Uri.parse("tel:"+phone.getText()));
          startActivity(i);
```

AndroidManifest.xml

Add permission before <application> in manifest file

<uses-permission android:name="android.permission.CALL_PHONE"></usespermission>

```
activity_main.xml × 💿 MainActivity.java × 👬 AndroidManifest.xml ×
    <?xml version="1.0" encoding="utf-8"?>
    <manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
        package="com.example.implicitintent">
    <uses-permission android:name="android.permission.CALL_PHONE"></uses-permission>
        <application
            android:allowBackup="true"
            android:icon="@mipmap/ic_launcher"
            android:label="Implicit Intent"
            android:roundIcon="@mipmap/ic_launcher_round"
            android:supportsRtl="true"
            android:theme="@style/Theme.ImplicitIntent">
            <activity
                android:name=".MainActivity3"
                android:exported="true" />
            <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>
```