

# Why does `intent.resolveActivity(getPackageManager())` return null even though there is Activity to handle it?

Asked 11 months ago   Active 18 days ago   Viewed 2k times

I'm following the [Android Codelabs](#), specifically I'm working on [this](#) Codelab with implicit intents.

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The Codelab has the following method:

```
public void openWebsite(View view) {
    String url = mWebsiteEditText.getText().toString();

    Uri webpage = Uri.parse(url);
    Intent intent = new Intent(Intent.ACTION_VIEW, webpage);

    if (intent.resolveActivity(getPackageManager()) != null) {
        startActivity(intent);
    } else {
        Log.d("ImplicitIntents", "Can't handle this intent!");
    }
}
```

The problem is that the `intent.resolveActivity(getPackageManager())` returns null, but if I omit this and just call the `startActivity(intent)`, it works fine and opens the Uri in Google Chrome.

I'm wondering why `intent.resolveActivity(getPackageManager())` returns null, even though the Uri can be opened in Google Chrome?

The **Manifest** file:

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

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

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

</manifest>
```

In this case the URL that we want to open comes from `EditText` field, so we can't use an `intent-filter` with `android:host` as described [here](#).

java android android-intent

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asked Aug 11 '20 at 12:27



Antonis Papadakis

1,130 ● 1 ● 9 ● 22

If you are testing on Android 11 or higher, you are being affected by [package visibility restrictions](#). – CommonsWare Aug 11 '20 at 12:34

@CommonsWare You are right. I tested it in the previous version and it works. I'm searching how can this be solved in Android 11. – Antonis Papadakis Aug 11 '20 at 13:16

3 Answers

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2



In case you haven't solve the problem yet. I don't know if you are using API level 30, but if you are you should check this [new Package visibility restrictions](#). Package Visibility has changed and apps are no longer able to access the Package Manager directly. You need to add a element in your AndroidManifest file. In your case you would need something like this.



```
<queries>
  <intent>
    <action android:name="android.intent.action.VIEW" />
    <category android:name="android.intent.category.BROWSABLE" />
    <data android:scheme="https" />
  </intent>
</queries>
```

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edited Nov 16 '20 at 20:05



Dharman

22.3k ● 19 ● 58 ● 108

answered Nov 16 '20 at 20:00



abrahamvee

23 ● 3



1



I had the same problem. I solved it by adding a request to use the browser in the manifest. Now my manifest file looks like this. Try reading this [article](#).

```
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
  package="com.example.android.quakereport">
  <queries>
    <intent>
      <action android:name="android.intent.action.VIEW" />
      <category android:name="android.intent.category.BROWSABLE" />
      <data android:scheme="https" />
    </intent>
  </queries>
  <application
    android:allowBackup="true"
    android:icon="@mipmap/ic_launcher"
    android:label="@string/app_name"
    android:supportsRtl="true"
    android:theme="@style/AppTheme">
    <activity android:name=".EarthquakeActivity">
      <intent-filter>
```

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

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answered Dec 11 '20 at 13:36



Igor Michael Stalevskiy

38 ● 4



add permission

0



```
<uses-permission android:name="android.permission.QUERY_ALL_PACKAGES" />
```



then add Queries

```
<queries>
    <intent>
        <action android:name="android.intent.action.VIEW" />
        <data android:scheme="https" />
    </intent>
</queries>
```

I hope it will solve your problem. you can also check [package visibility use cases](#)

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answered Jun 27 at 14:34



Moiz Irshad

611 ● 5 ● 14