

Introduction to Android Content provider

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ANDROID

The image shows the multi-colored Google logo (G in blue, o in red, o in yellow, g in blue, l in green, e in red) with a trademark symbol (TM) to its upper right. The logo is contained within a thin black rectangular border.

Introduction to Android Content provider

CS 436 Software Development on Mobile

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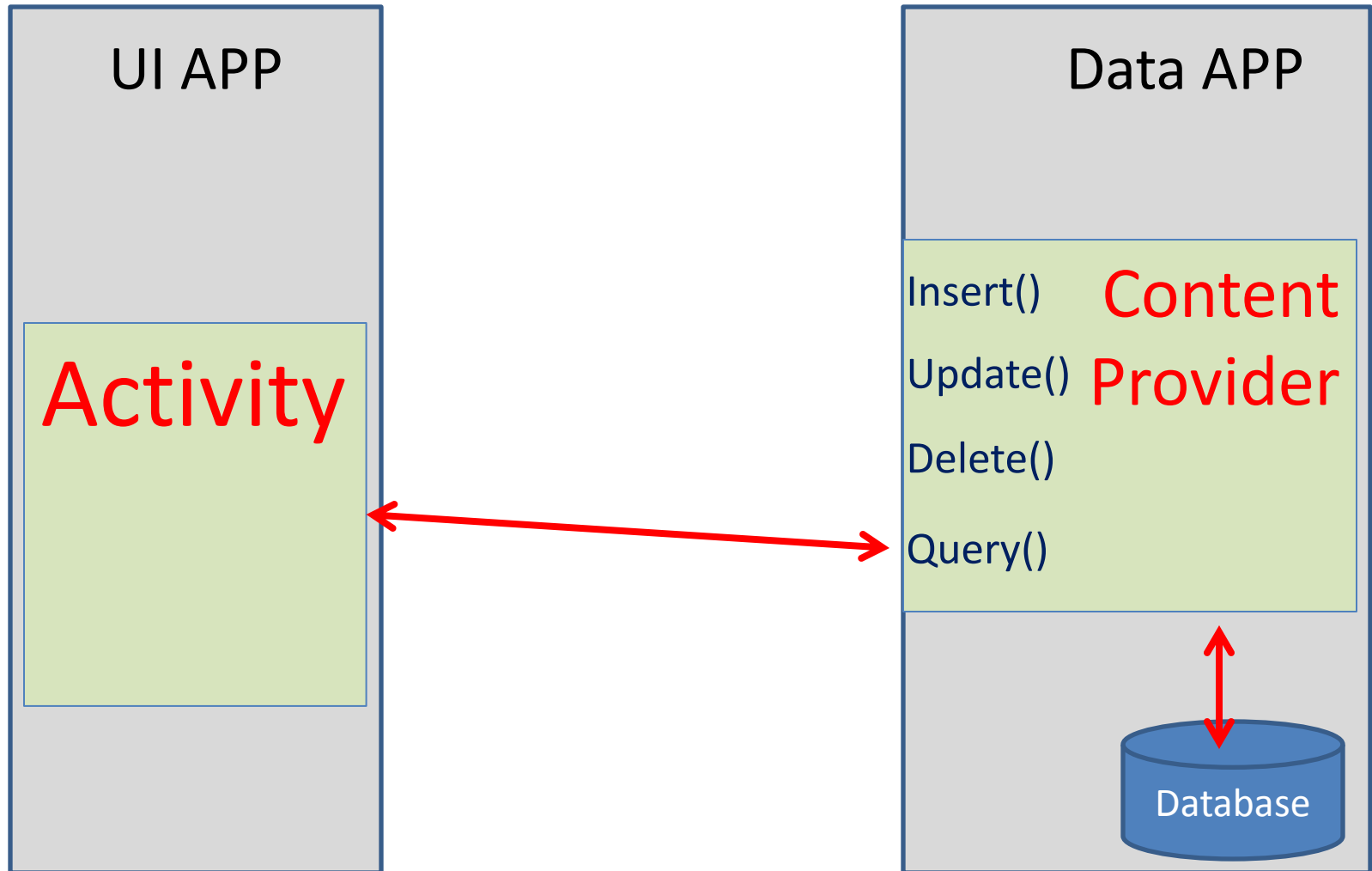
Maejo University



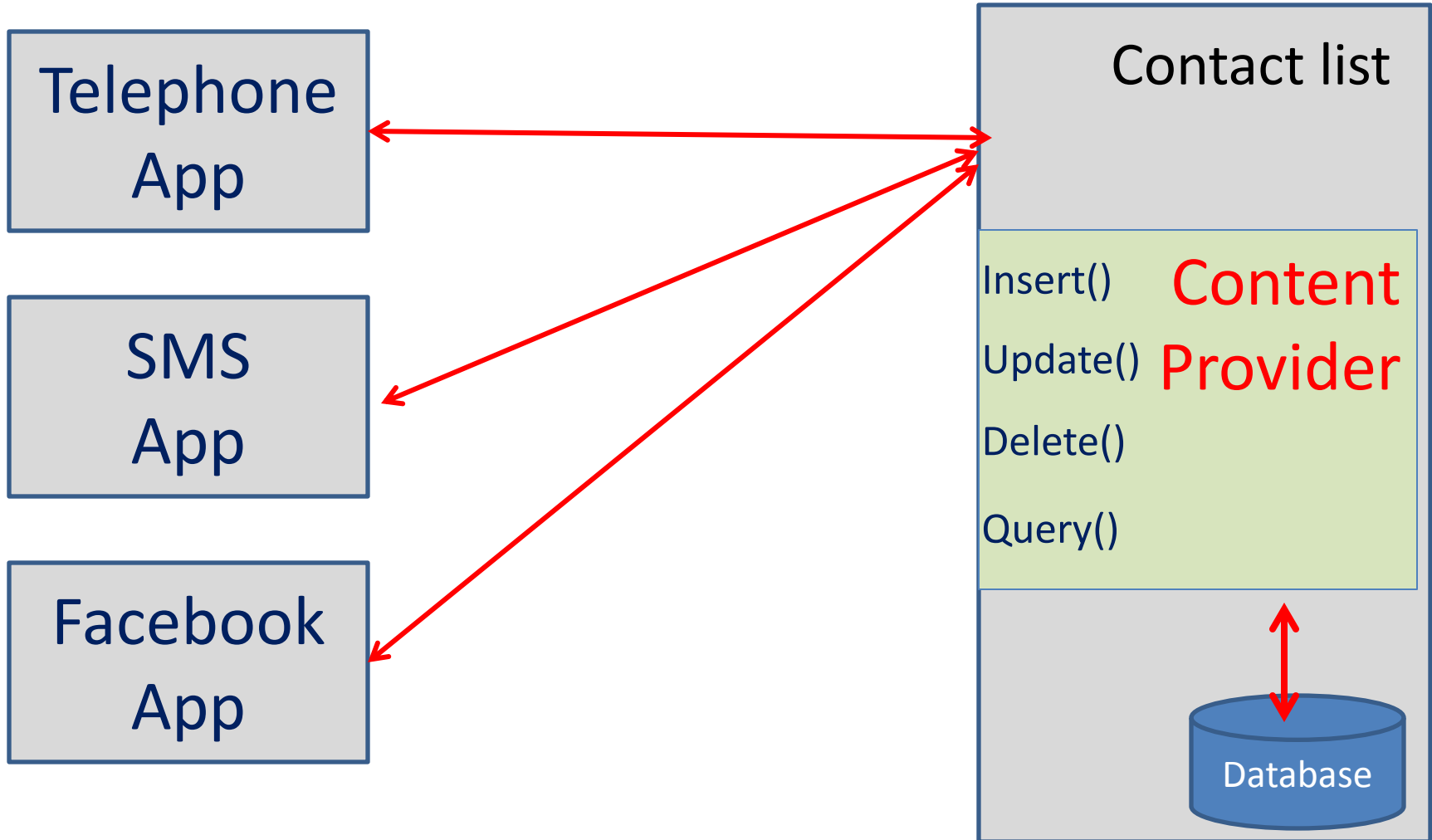
Content provider

- What is content provider ?
- Why do we need content provider ?

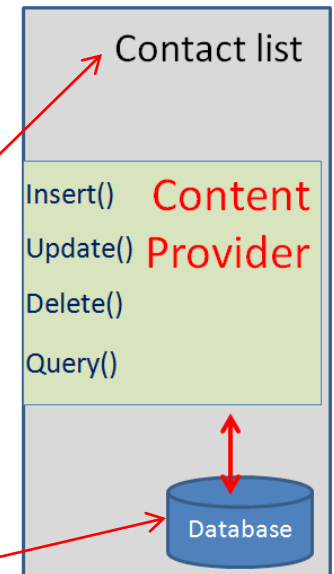
Content provider



Content provider



Content provider



```
mCursor = getContentResolver().query(  
    CONTENT_URI,  
    mProjection,  
    mSelectionClause  
    mSelectionArgs,  
    mSortOrder);  
    // The content URI of the words table  
    // The columns to return for each row  
    // Selection criteria  
    // Selection criteria  
    // The sort order for the returned rows
```

Content provider

Content provider query

```
mCursor = getContentResolver().query(  
    CONTENT_URI,  
    mProjection,  
    mSelectionClause  
    mSelectionArgs,  
    mSortOrder);
```

SQL query

```
Select name from student where class=123  
order by name;
```

Content provider

Case study: contact list

Contact list

- 1) Ask for permission to read contact list
- 2) Create cursor object
- 3) Query for content
- 4) Get information from cursor object

Contact list

1) Ask for permission to read contact list

```
<manifest xmlns:android="http://schemas.android.com/apk/res/android"  
  package="com.example.android_demo_contact"  
  android:versionCode="1"  
  android:versionName="1.0" >
```

```
  <uses-sdk  
    android:minSdkVersion="8"  
    android:targetSdkVersion="15" />
```

```
  <application  
    android:icon="@drawable/ic_launcher"  
    android:label="@string/app_name"  
    android:theme="@style/AppTheme" >  
    <activity  
      android:name=".MainActivity"  
      android:label="@string/title_activity_main" >  
      <intent-filter>  
        <action android:name="android.intent.action.MAIN" />  
  
        <category android:name="android.intent.category.LAUNCHER" />  
      </intent-filter>  
    </activity>
```

```
  </application>
```

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

```
</manifest>
```

Manifest.xml

Contact list

- Create cursor object

```
Cursor cursor;
```

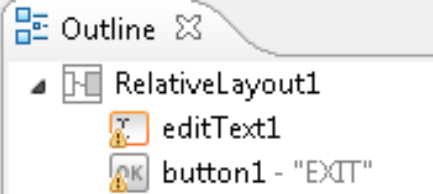
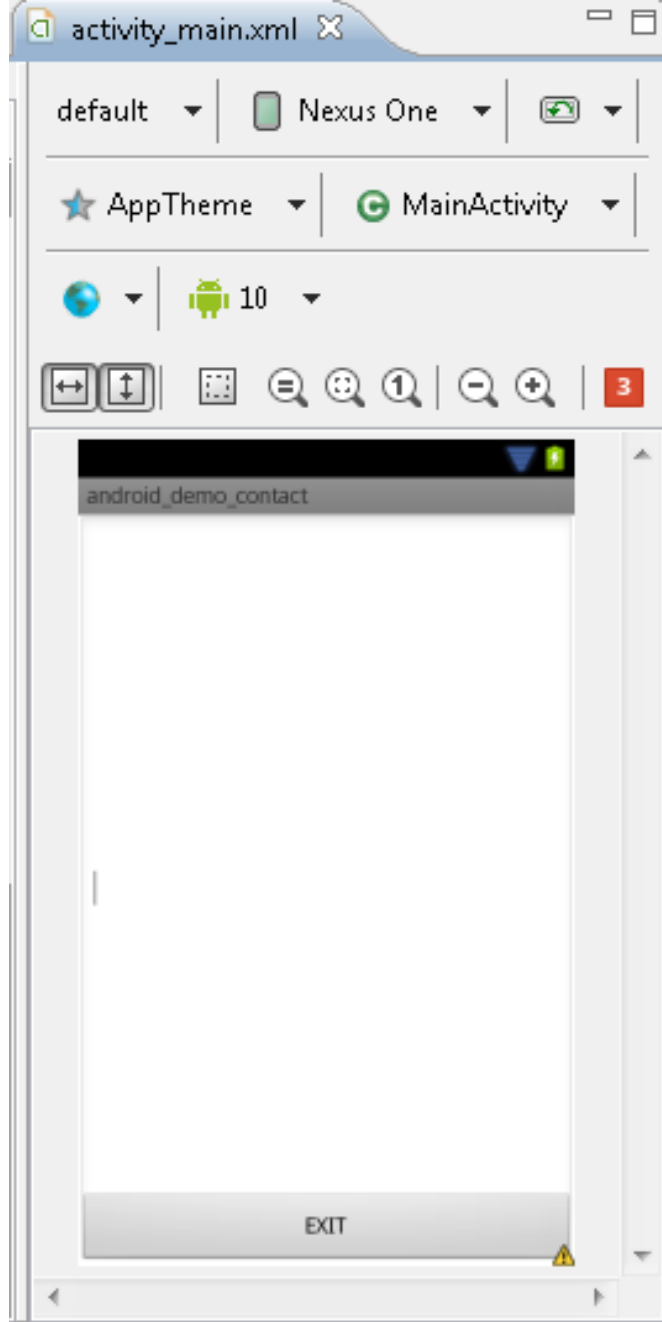
- Query for content

```
cursor =  
managedQuery(ContactsContract.CommonDataKinds.Phone.  
CONTENT_URI, new String[] {Phone._ID,  
Phone.DISPLAY_NAME, Phone.NUMBER}, null, null, null);
```

Contact list

- Get information from cursor object

```
while (cursor.moveToNext()) {  
    tmp=tmp+ cursor.getString(1) +" ->" + cursor.getString(2) +"\n";  
}  
edittext1.setText(tmp);
```



Thank you 😊