Resourcen

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Binder (IPC) Driver
Keypad Driver
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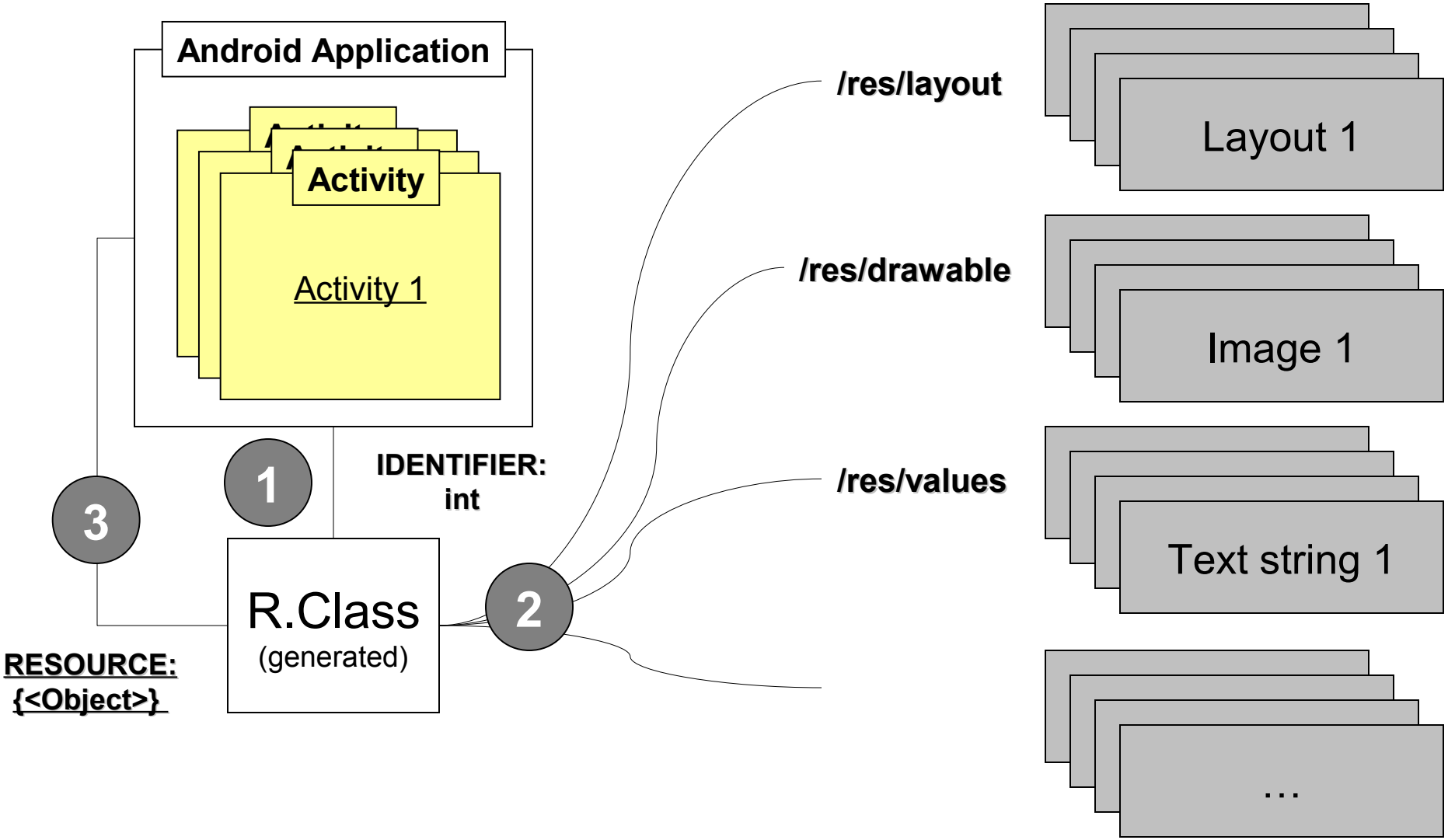
Audio Drivers
Power Management

What is a resource?*

- External elements that you want to include and reference within your application, like
  - images, audio, video,
  - text strings,
  - layouts, themes,
  - ...

What is a resource?



Why to separate resources?

- Externalization from code
- Performance
  - XML is compiled into a binary fast loading format
  - String values are compressed
  - …

Resource folders

- res/anim
- res/drawable
- res/layout
- res/values
- res/xml
- res/raw

Resource Access

- res/drawable

```
this.getResources().getDrawable(
R.drawable.icon);
```

- res/layout

```
TextView tv_name =
(TextView)findViewById(R.id.tv_name)
```

- res/values
  - strings.xml

```
getResources().getString(
R.string.app_name);
```

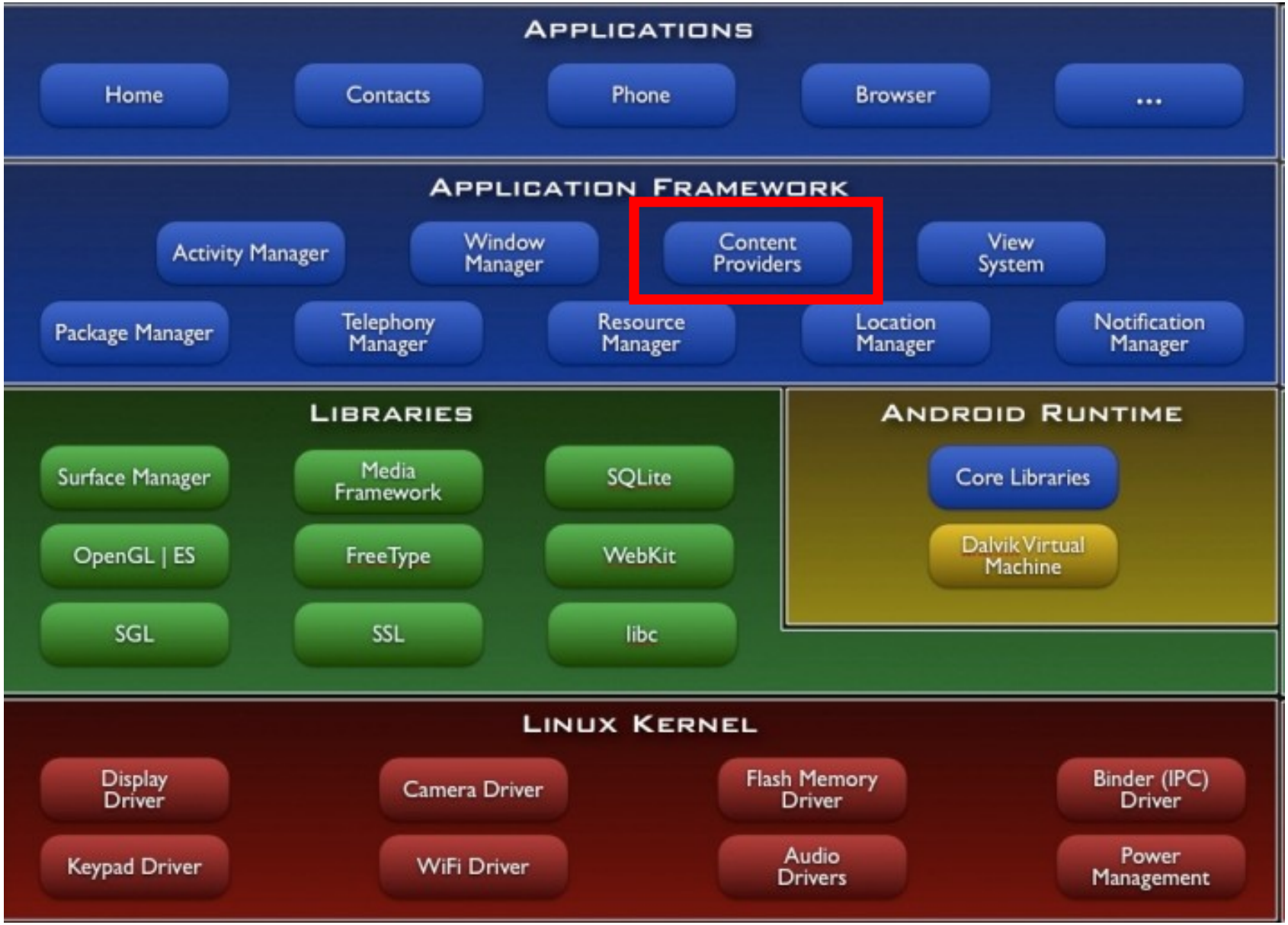
Resources

See Android Documentation:

http://developer.android.com/guide/topics/resources/resources-i18n.html

http://developer.android.com/guide/topics/resources/available-resources.html

Content Provider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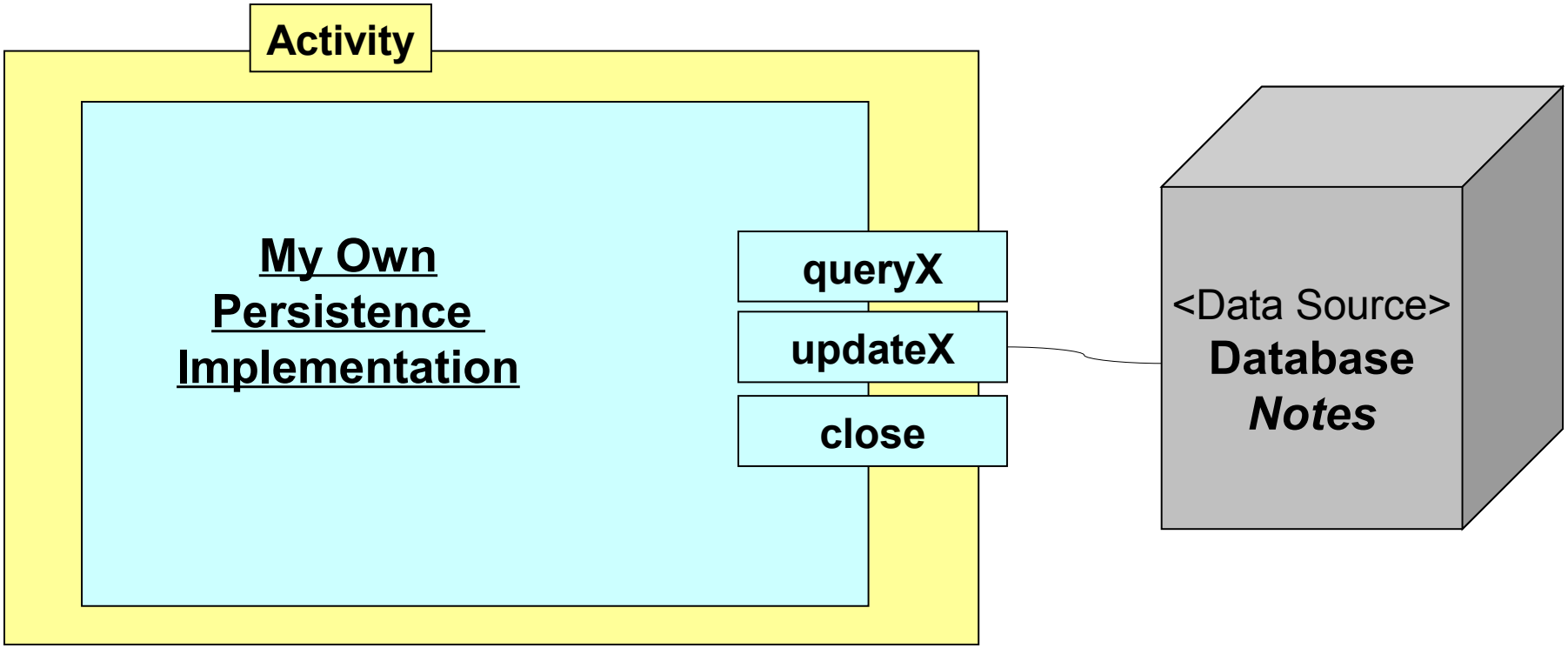
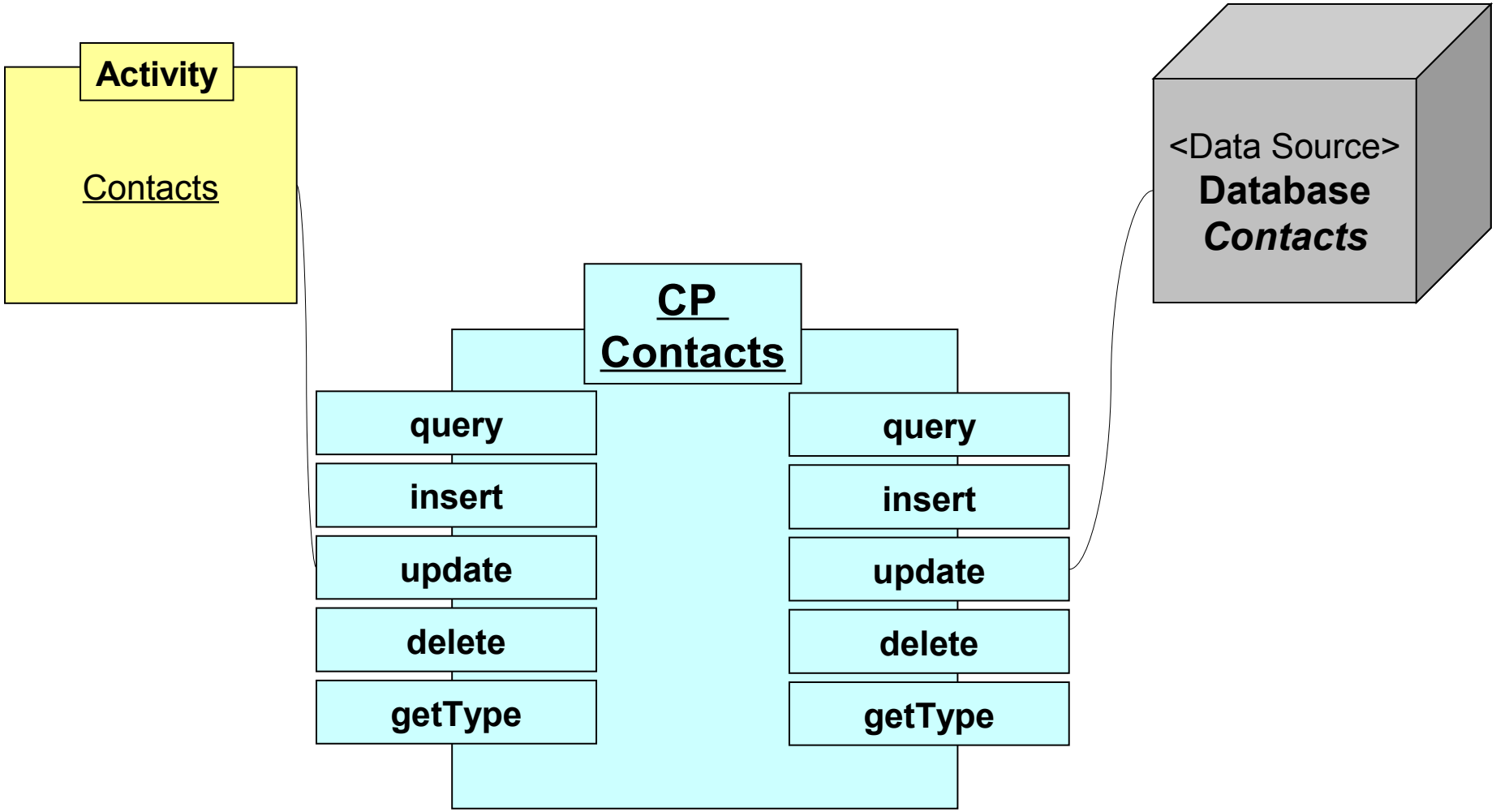
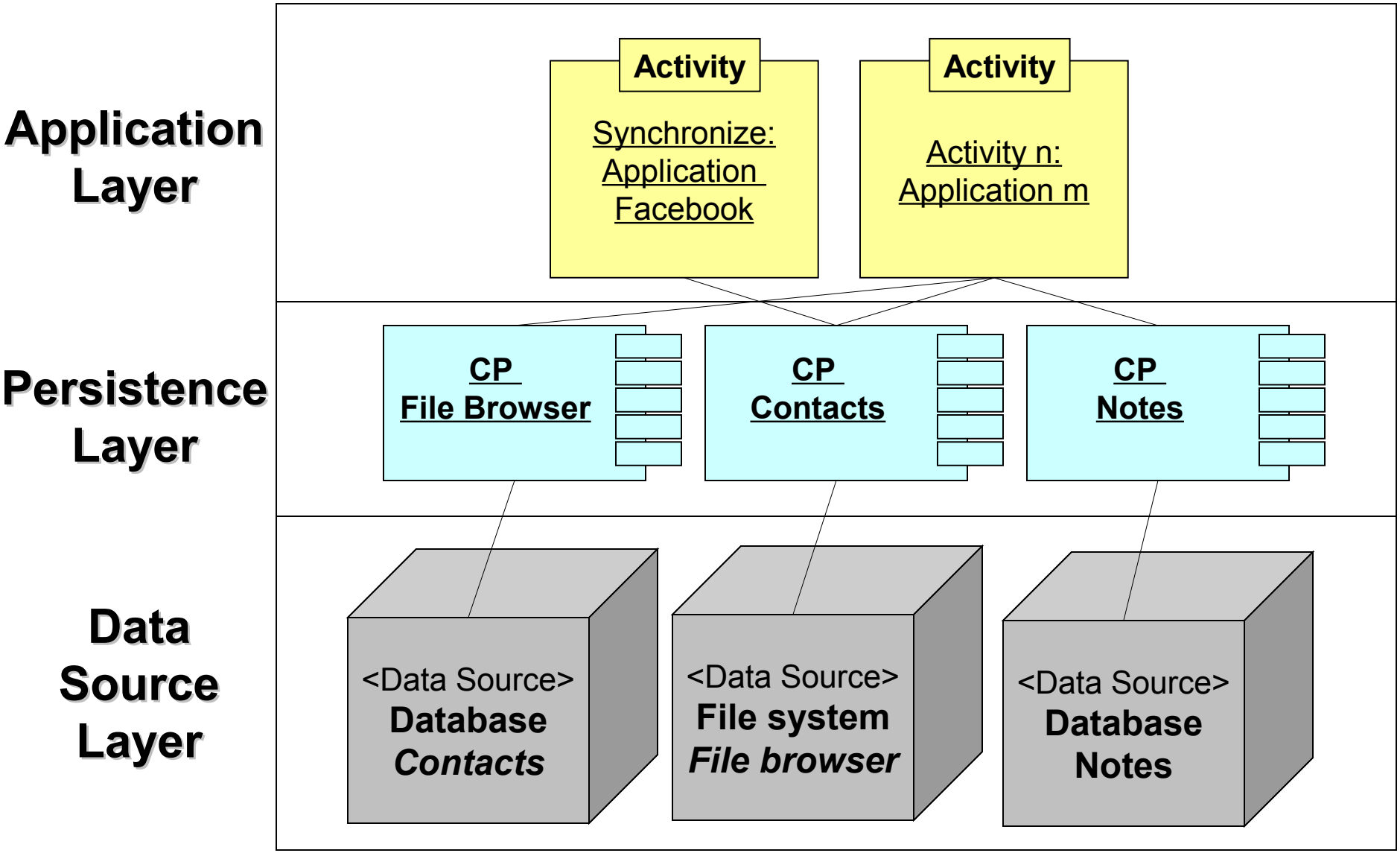
Data Access – Opportunity I



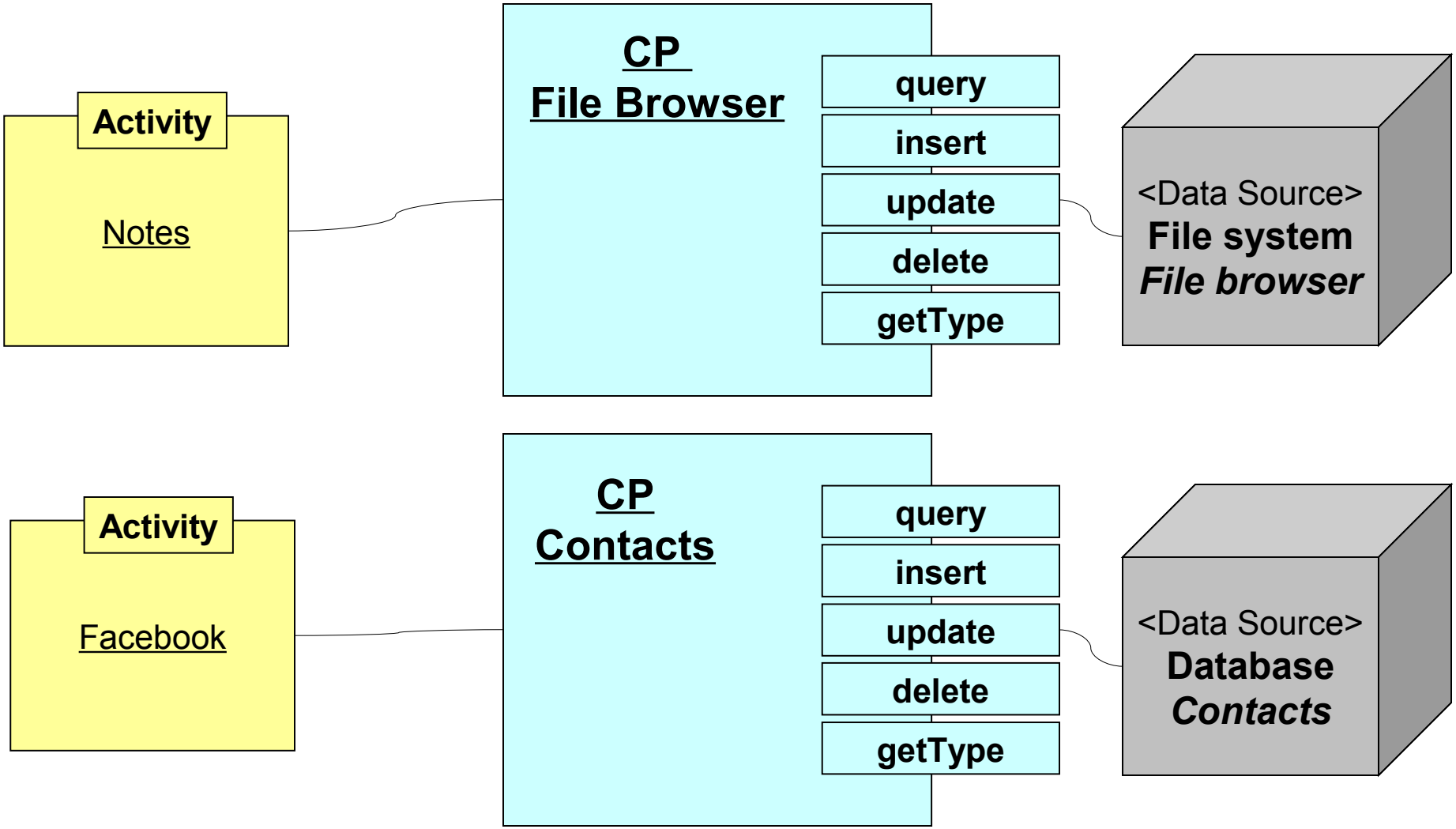
Data Access – Opportunity II



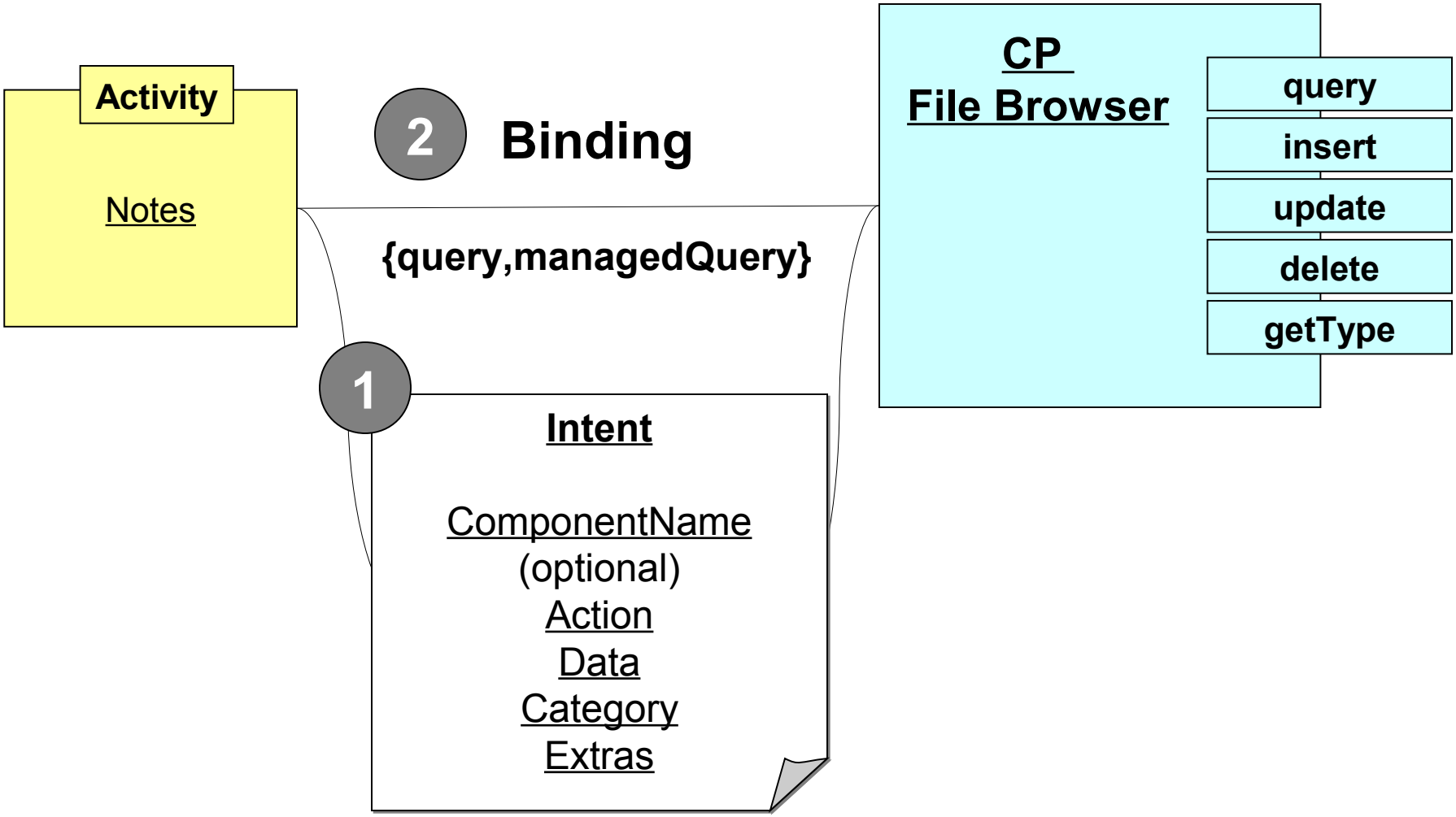
Data Access - Objective



Content Provider (CP) - I



Content Provider (CP) - II



Interface ContentProvider*

query(Uri, String[], String, String[], String)
which returns data to the caller

insert(Uri, ContentValues)
which inserts new data into the content provider

update(Uri, ContentValues, String, String[])
which updates existing data in the content provider

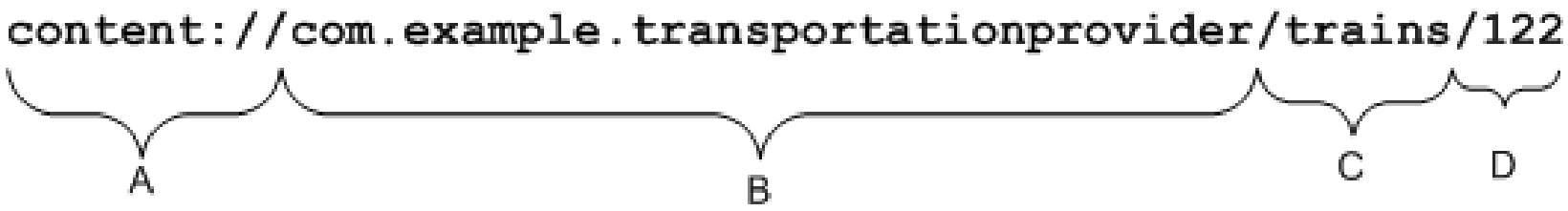
delete(Uri, String, String[])
which deletes data from the content provider

getType(Uri)
which returns the MIME type of data in the content provider

URI - Definition

*“A Uniform Resource Identifier (URI) is a compact string of characters for identifying an abstract or physical resource.”[…] **

URI – Example


content://com.example.transportationprovider/trains/122
A
B
C
D

Register CP

Manifest.xml

```
<provider android:name="NotesProvider"
android:authorities="de.rt.notes.notesprovider"/>
```

Define a static URI constant
(class: `de.rt.notes.NotesProvider`)

```
public static final Uri CONTENT_URI =
Uri.parse("content://de.rt.notes.notesprovider/notes");
```

Entire Example

```
public class OpenX extends Activity {
@Override
public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.openx);
        TextView tv_name = (TextView) findViewById(R.id.tv_name);
        TextView tv_mail = (TextView) findViewById(R.id.tv_mail);

        Uri contacts =  People.CONTENT_URI;

        Cursor cur= managedQuery(contacts, null, null, null,
        People.NAME +" ASC");

        if (cur.getCount() == 1) {
                cur.moveToFirst();
                tv_name.setText(cur.getString(
                cur.getColumnIndexOrThrow(People.NAME)));

                tv_mail.setText(cur.getString(
                cur.getColumnIndexOrThrow(People.NUMBER)));
        }
 }
}
```