Android Components 2 Android Smartphone Programming

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23. November 2015



1 Content Providers

2 Calendar





- Mostly used to share data between applications[2].
- Many predefined Content Providers available, for example to access phone contacts.
- Provide mechanisms to define data security.
- Access of data through content URI.
 - Example: people.CONTENT_URI to access the phone contacts.







Content Providers

```
Example: Usage of a Content Provider
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```

```
String[] proj = new String[] {People._ID,
1
      People.NAME, People.NUMBER;
   try {
2
     Cursor c = managedQuery(People.CONTENT_URI,
         proj, null, null, null);
     if (c == null) return;
     int name = c.getColumnIndexOrThrow(People.
        NAME);
     if (!c.moveToFirst()) return;
     String nameString = c.getString(name);
```





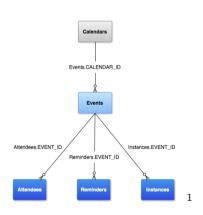


- To access the built-in calendar the Android manifest has to be extended[?]:
- 1 <uses-permission android:name="android.
 permission.READ_CALENDAR">
- </uses-permission>
 - Data can be accessed through a Content Provider and a Cursor.
 - The Content Provider for the calender has the following URI:
- content://calendar/calendars





JNI





¹http://developer.android.com/guide/topics/providers/calendar-provider.html



- Calendar Contract. Calendars:
 Calender specific informations.
- CalendarContract.Events:
 Event specific informations. Connected by CALENDER_ID.
- CalendarContract.Instances:
 Start and end time for each occurrence. Connected by EVENT ID.
- CalendarContract.Attendees:
 Event attendee information. Connected by EVENT_ID.
- CalendarContract.Reminders:
 Notification data. Connected by EVENT_ID.





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