Android Components 2 Android Smartphone Programming

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2 Calendar





Content Providers

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- 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 University of Freiburg





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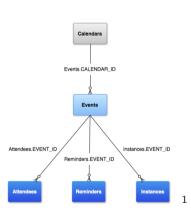
- To access the built-in calendar the Android manifest has to be extended[?]:
- <uses-permission android:name="android.</pre> permission.READ_CALENDAR">
- </uses-permission>
 - Data can be accessed through a Content Provider and a Cursor.
 - The Content Provider for the calender has the following URI: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





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

- CalendarContract. 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.





Bibliography

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Android Developers

App Widgets.

http://developer.android.com/guide/topics/appwidgets/index.html.



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Content Providers.

http://developer.android.com/guide/topics/providers/content-providers.html.



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Data Storage using Databases.



http://developer.android.com/guide/topics/data/data-storage.html#db.

Android Developers.

Notifications: Dialog.



http://developer.android.com/guide/topics/ui/notifiers/index.html#Dialog.



Android Developers.

Notifications: Status Bar

http://developer.android.com/guide/topics/ui/notifiers/index.html#StatusBar.



Android Developers.

Notifications: Toast.

http://developer.android.com/guide/topics/ui/notifiers/index.html#Toast.



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Services

http://developer.android.com/guide/topics/fundamentals/services.html.

