P82 Mobile Application Development - Android

Intents

This is a message object used to perform an action on another application component. There are three use cases:

- To start another activity
 - Without passing information
 - With passage of information
 - With Return Information
- To start a Service
- To start notifications

Intents

- There are two types of Intents
 - Explicit: where we will start a component by name (used in our own application)
 - Implicit:
 - does not start a component but an action. Use in general to launch component from other application.
 - system decision to find the right application, if multiple user choices

Explicit Intents

- Without passing a message Intent intent = new Intent (Activity_A.this, Activity_B.class); startActivity (intent);
- With message passing
 - Send
 String msg = "a message"; Intent intent = new Intent
 (Activity_A.this, Activity_B.class); intent.putExtra ("myKey", msg); startActivity (intent);
- Recovery in the second activity
 Intent return = getIntent (); String msgBack = return.getExtr.String ("myKey");

Explicit Intents

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Explicit Intents

With waiting for answer Send int id = 0: Intent secondActivity = new Intent (Activity A.this, Activity B.class); startActivityForResult (secondActivite, id); Redefines a method to retrieve the answer @Override protected void onActivityResult (requestCode int, int resultCode, Intent data) { int id = 0: // We first check which intent we are referring to here using our identifier if (requestCode == id) { // We also check that the operation went well if (resultCode == RESULT_OK) { // Display the button that was chosen String msg = data.getStringExtra ("myKey");

Intents Explicite

- With waiting for answer
 - reply

```
Intent result = new Intent ();
result.putExtra ("myKey", "my message");
setResult (RESULT_OK, result);
finish ();
// to close the activity
```

Implicit Intent

Later in the course