Mobile Application Development

Higher Diploma in Science in Computer Science

Produced by Eamonn de Leastar (edeleastar@wit.ie)

Department of Computing, Maths & Physics
Waterford Institute of Technology

http://www.wit.ie
http://elearning.wit.ie
Donation Projects
donation-service
donation-android
Expose the model as a REST API for consumption by any interested clients (Android or other)

GET /api/users
GET /api/users/{id}
POST /api/users
DELETE /api/users/{id}

GET /api/users/{userId}/donations
GET /api/users/{userId}/donations/{id}
POST /api/users/{userId}/donations
DELETE /api/users/{userId}/donations/{id}
Act as a proxy for the donation service.

i.e. Android app uses these classes to:

• read users/donations from donation-service

• update/delete users/donation on donation-service
Reusable classes to support HTTP Rest style interaction with the donation-device
Activities of the application

Make use of ‘app.models’ to interaction with donation-service
Designing, building and testing android application is a substantial challenge in its own right.

If the app is depending on an external API exposed by some other application, then this is a significant additional layer of complexity.

To reduce risk, consider building a project whose sole purpose it to test and verify correct usage of the external API.
Configuration

- donation-android depends upon (requires) a stable donation-service in order to operate effectively.
• Independently test the donation-service

• Use http/rest interface

• Use as many of the donation-android classes as possible to perform the tests
donation-service-test

- A standard java application - not Play, not Android
- Use eclipse JUnit test runner to run tests
- Run tests against local and deployed version of donation-service
donation-android & donation-service-play-test

- Reuse classes:
  - Rest
  - Donation
  - User
  - JsonParsers
- from donation-android
- Adapapt & simplify:
  - DonationServiceAPI
Except where otherwise noted, this content is licensed under a Creative Commons Attribution-NonCommercial 3.0 License.

For more information, please see http://creativecommons.org/licenses/by-nc/3.0/