Cours 644-1 – Winter Semester 2015-2016
Android project description
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The goal of this project is to develop an android application, and to store some information inside the cloud. Every group of two students receives a different dataset and is evaluated on her/his application code.

Data

Every student receives a subject with some data tables on which he has to create an Android application.

Nr	Subject	Table 1	Table 2	Table 3
1	**Inventory**	Product	Category	Warehouse
2	**Railway**	Station	Train	Passenger
3	**Restaurant**	Employee	Product	Bill
4	**IT training**	Instructor	Course	Trainee
5	**Blood donation**	Patient	Donor	Blood bank
6	**Art gallery**	Artist	Artwork	Room
7	**Booking**	Hotel	Customer	Destination
8	**Salary**	Employee	Salary details	Salary history
9	**ATM**	Customer	Account	ATM (Location / Amount / etc.)
10	**TV Show Tracker**	Show	Season	Episode
11	**SCRUM**	Developer	User Story	Sprint
12	**Pizza delivery**	Delivery boy	Area	Customer
13	**Forum**	Thread	Post	User
14	**Sports league**	Player	Club	Tournament
15	**Bug tracking**	Issue	List	Developer

Application features
- User interface allowing to:
    o Show the dataset information
    o Change/Delete this information
    o Add new data
- Actionbar to show information about the application and give access to settings
- Settings, allowing to change for instance UI language (French/German and English), and other useful settings
- Correct management of activities
- Replication of the data inside the Google cloud backend.
- Other useful features to make your application coherent and attractive
- The code must be very well self-documented and self-explaining

Oral presentation & final deliverable
- Each student will present his code during 10 minutes.
- The student must have given back his final project 36h before this presentation.

Evaluation criterias

- Application compiling and running correctly (component lifecycles)
- Clean code, well commented and self-explaining
- Correct definition and management of local database (with at least 3 tables)
- Correct management of activities
- Actionbar
- Settings
- User interface to show, add, modify and delete all data
- Additional user interface elements
- Google Cloud integration:
    o GAE entities & endpoints
    o Real cloud backend deployed
    o Synchronization of data onto the cloud

Final mark of the module
- The final mark of the module will be composed as follows:
    o 75% Android application
    o 25% Cloud implementation and integration

Project steps and evaluation
- 24.09.2015: General description of the application:
    o Description of functionalities (from the point of view of the users)
    o Description of the data tables
- 08.10.2015: First version of mockups
- 29.10.2015: Individual project UI presentations
- **3.12.2015: Presentations of Android projects and evaluations**
- **14.01.2015: Cloud integration project evaluations**

The mark of the project counts as mark of the module.