

TD3 : Develop an android application

Duration: At least 9h30

Instructions:

- Work independently in groups of 2 or 3 max
- **Submit on Mootse:**
 - Source code + APK (**per group**) + a brief description of the application specifying the functionalities and your choices
 - Each group evaluates the work of another group, according to the provided evaluation grid

Deadlines: Wednesday, 12th February 2020

- 4:45 PM: Deadline for the submission of the source code, the APK and the description on Mootse
- 5 - 6 PM: Evaluation (Each group evaluates the work of another group according to the provided evaluation grid)

1. **Our product:**

- is an android application working on smartphones and / or tablets
- is for a group of people (couple, families, friends, colleagues, etc.) who wish to carry out a joint activity and automatically manage their group budget
- centralizes all group expenses and does the accounts automatically
- offers a **usable and accessible** user interface

2. **The mandatory features are:**

- Register / login
- Create a group
- Record and name an expense
- Automatically calculate each person's shares (equitably, weighted, etc.): "Who owes whom and how much" listing all the payment processes necessary to repay debts.
- Add members to a group
- Settle a debt (to allow the user to enter an amount manually)

Additional features (be creative, you can suggest others):

- Add and attach an invoice or ticket (photo, pdf, etc.) to an expense

- Show statistics
- Allow the use of the application in connected mode (use the Internet)
- Send reminders to other people in the group
- Send notifications (reminders if you owe money to a third party)
- Print / export in pdf, csv, etc.
- Geolocate expenses
- ...

All your suggestions are welcome. Use your imagination

Evaluation criteria :

Final grade = group grade (Can be individual if the effort provided is not the same) and may be a bonus or penalty depending on how you rate the other groups

Evaluation grid:

- Human Machine Interface
 - Usability (this is a mobile application, take into account the criteria related to this type of configuration)
 - Accessibility
 - ...
- Human Machine Interaction
 - Accessibility
 - Fitts' Law
 - Design Principles
 - ...
- Quality of the product code:
 - It works
 - MVC
 - No redundancy
 - Compliance with good practices and the naming convention
 - Using Git
 - Application features
 - Comments