

Mobile Application Development

Final projects



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Projects

- The final grade will depend on two projects
 - iOS application (1/2 of final grade)
 - Android application (1/2 of final grade)
- Projects must be developed individually
- Extra features can be implemented for extra credit
- Each project must be presented to the teachers at oral exam sessions
- During oral exams, the project must be presented and questions about the code may be asked

Travel Diary

- **Main technologies:** Location services, Storage
- **Requirements:** The user can use this app to store information about journeys. The app will store a list of journeys. Each journey will be described by a name, a short descriptions, a start date and location, an end date and location, and a list of stops (locations). Each location will be described by a name, a location (both latitude,longitude and address), and an optional short description. For each journey, a map should be used to show all the stops. The app must be able to create a new journey and to enter a new stop either manually or by getting the current location. All journeys must be stored in the app's storage (~~one or more JSON files can serve this purpose~~).
FUCK IT, USE CORE DATA
- **Extra features:** Share journeys on social networks; add multimedia to each journey (pictures, videos, etc.)

Sport Tracker

- **Main technologies:** Location services, Storage
- **Requirements:** The user can use this app to store information about outdoor activities he/she will perform. Location services must be used to record sport sessions by constantly tracking the location of the user (use an appropriate sampling rate). For each session the following metrics must be calculated: start time, duration, distance, average speed, maximum speed. Using a map, a user can also see the path of the activity.
- **Extra features:** Share sessions on social networks; step counter using sensors.

Personal Notes

- **Main technologies:** Networking, Multimedia, Storage
- **Requirements:** The user can use this app to save notes. Two types of notes can be saved: web bookmarks or images. In the first type, the user use a web browser section of the app to surf the web. When the user finds an interesting page, it can bookmark it and create a note with the following information: a text note and or a vocal note. Alternatively, a user can take a picture and create a text or vocal note. Each bookmark can then be recalled from a list which must show the title and the type of the note.
- **Extra features:** Share on social networks.

RSS Manager

- **Main technologies:** Networking, Storage
- **Requirements:** The user can use this app to save a list of RSS feeds. After entering the information of a feed (name, category, and URL), the user can then select a feed to read the news items. Each item can be displayed on a dedicated web view and can be saved for offline reading.
- **Extra features:** Share feed or news on social networks.

Text Editor

- **Main technologies:** Storage
- **Requirements:** The user can use this app to create documents, just like Google Docs or Microsoft Word. The user can type text, annotate parts of it to change its style. The documents must be saved in the app's storage and can be re-opened for editing. Each document must also be characterized by a name, a creation date, a last access date.
- **Extra features:** Share document using mail or social, add multimedia to the document.

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