



MobDev - Projects

2019/2020



This work is licensed under a [Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License](https://creativecommons.org/licenses/by-nc-sa/4.0/).

Projects Characteristics

- 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 will be asked
- The same project can not be chosen for both Android and iOS

EACH APPLICATION MUST BE STRUCTURED IN THE CORRECT WAY FOLLOWING MVC PATTERNS AND USING THE INTERFACE GUIDELINES EXPLAINED IN CLASS AND MUST BE USABLE ON ANY DEVICE.

AS A REFERENCE TRY TO SEE WHAT SIMILAR APPS THAT ARE AVAILABLE LOOK LIKE AND WORK.

Project 1 - My Movements

– Technologies Requirements

- Database (SQLite or CoreData)
- GPS Background Services / Processing

– Requirement/Functionalities

- The user can start recording a session specifying the type of activity
 - Walking
 - Driving
 - Public Transportation
 - For each session the user can add a text note
 - Each session should keep track of all available information such as:
 - Start/End Time
 - Average accuracy of the location
 - Average Speed
 - GPS Points and overall route
 - The list of all sessions should be available to the user with ALL collected information and GPS point
 - The application must work also in background and should properly manage User Permissions
- ## – Extra Features
- Export each session as GPX file



Project 2 - My Todos

■ Technologies Requirements

- Storage Options: Database (SQLite, CoreData) or File with JSON Format

■ Requirement/Functionalities

- Define a list of categories (e.g., Work, Sport, Home, etc ...)
 - Add a new TODO Element with the following info
 - Category
 - Creation Time
 - Name
 - Note
 - Due Date (Optional)
 - Available Todos can be filtered according to:
 - Due Date
 - Category
 - Creation Time
 - A TODO Element can be marked as completed and removed from the list of active todos
 - The list of completed Todos should be accessible by the user to review
 - A local notification should be presented as a reminder that a TODO item is due (the day before the due date)
- ## ■ Extra Features
- Export the list of TODO as CSV
 - The export can be filtered following the previous filtering options



Project 3 - My TV Shows

■ Technologies Requirements

- Storage Options: Database (SQLite, CoreData) or File with JSON Format

■ Requirement/Functionalities

- Create/Manage Shows Categories (e.g., Sport, Drama, Action, etc ...)
- Add a new Show with the following info
 - Photo
 - Name
 - Category
 - Platform (e.g., Netflix, Amazon Prime, HBO, Rai Play, etc ...) [may be more than one]
 - Link (Optional)
 - Description
 - Score (From 1 to 5)
 - Seasons & Episodes for each Season
- For each created Show the user can also add
 - Watched episodes
 - Episode's Score (Optional)
- Available Show can be filtered according to Category or Score

■ Extra Features

- Export the list of TODO as CSV
- The export can be filtered following the previous filtering options

