modulotech

iOS Technical test

Objective

Create a smart home application, able to control devices such as lights, roller shutters, heaters, etc.

Instructions

- Fetch and parse the file at **http://storage42.com/modulotest/data.json**
- Create a home page,which:
  - Lists the devices
  - Filters them to show one or more types at the same time
  - Can delete any device
- Create a control page for **each** device type
  - **Lights**: Mode **ON/OFF** and **intensity** management (**0 - 100**)
  - **Roller shutters**: Set **position** using a vertical slider (**0 - 100**)
  - **Heaters**: Mode **ON/OFF** and set the **temperature** with a step of **0.5 degrees** (min: **7°**, max **28°**)
- Create a user profile page where we can display and update **all** the informations.

Required points

- Swift
- MVVM
- **Do not use storyboards** (except for the Launch Screen if necessary)
- Each device must have a dedicated class
- Each device state (mode, intensity...) must be kept within the app life cycle, persist through app terminations and reboots, and must have a visual feedback
- External libraries are allowed but must be **justified**

Significant points

- RxSwift
- Translating the app (french & english)
- Unit tests

Bonus points

- Sexy UI
- Handling dependencies using Carthage
- Handling the Dark Mode