Futurouse

IPM

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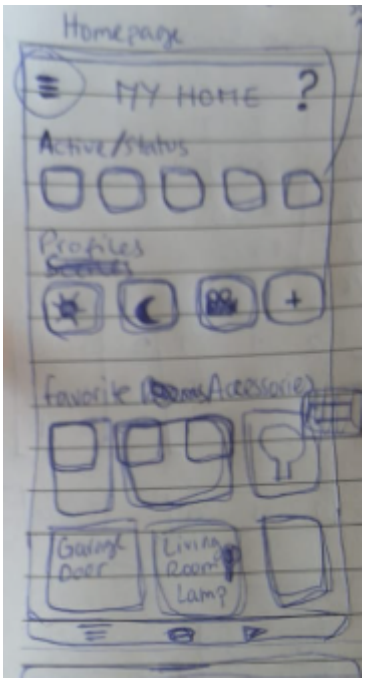
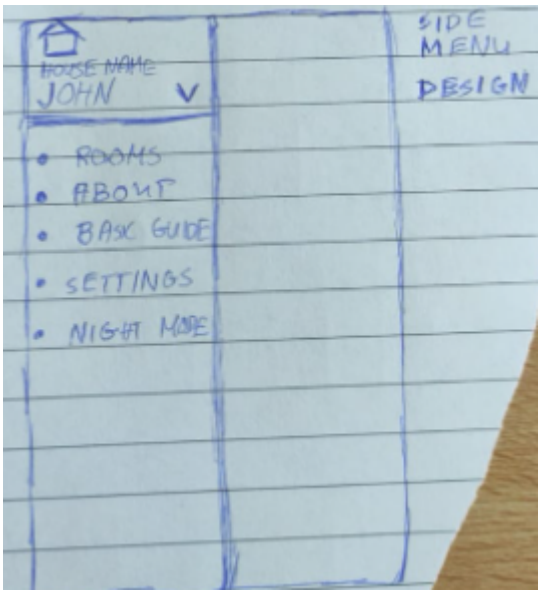
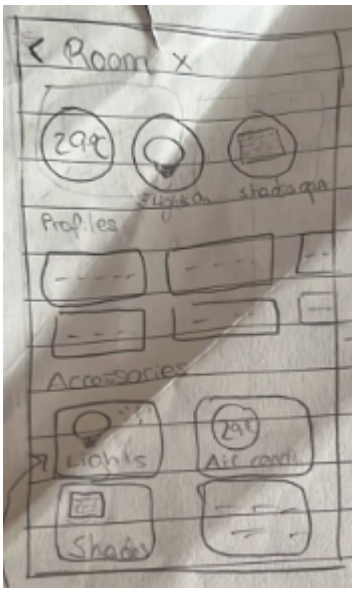
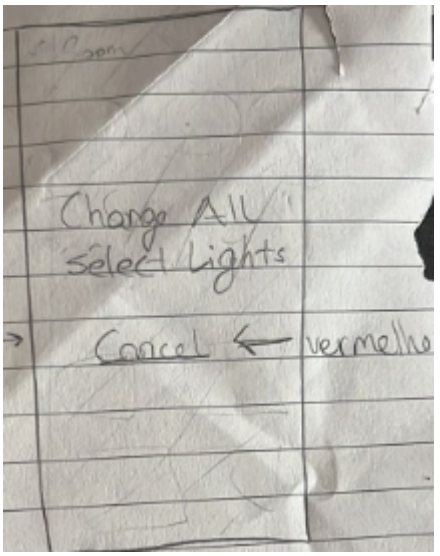
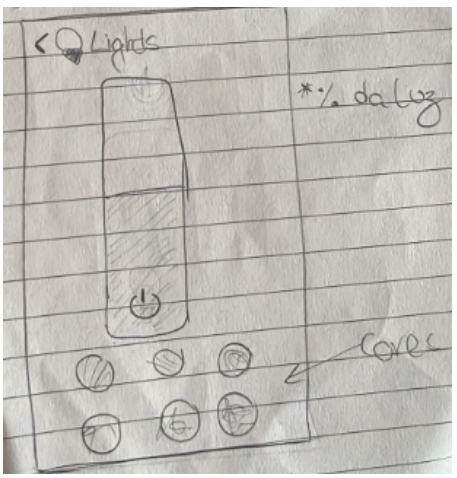
Paper Sketches:

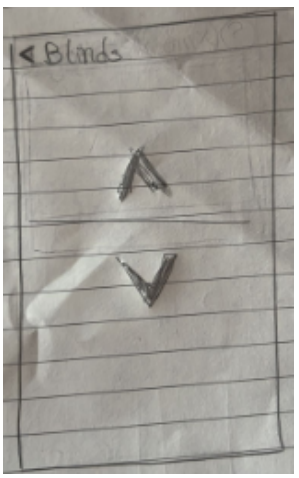






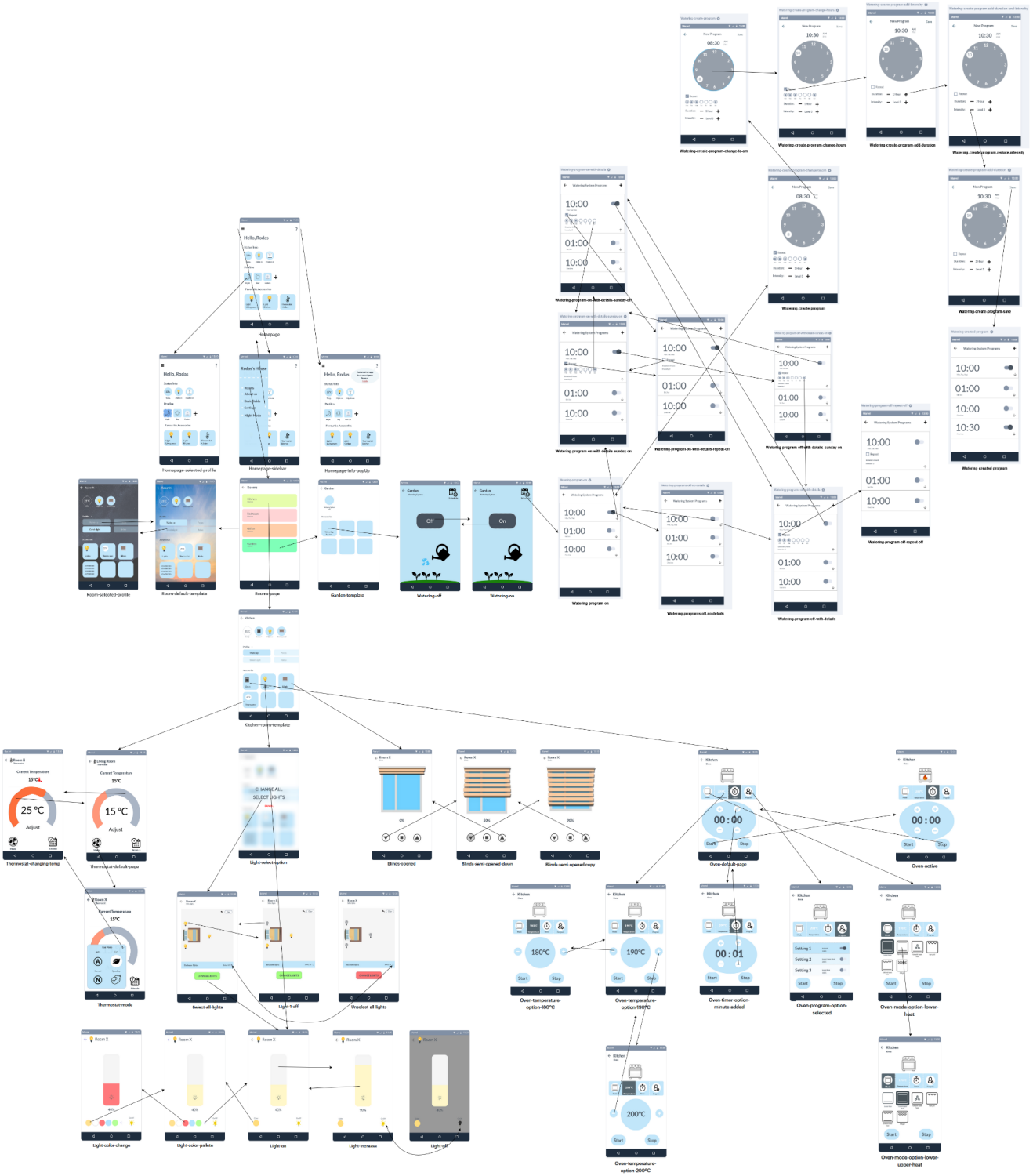






Prototype: https://marvelapp.com/prototype/8246iea

Storyboards



https://drive.google.com/file/d/1RTjFCDagGE-zGQvXcbt37rBVjzbsUkQA/view?usp=sharing

Briefing

Futurouse offers the user a smart way to manage the devices in their house. It offers multiple tools such as:

- changing the lights
- change thermostat temperature
- close or open the blinds
- program the oven
- program irrigation
- change devices in specific room

The application homepage presents the basic house information. The user has the ability to navigate through rooms and change the devices state.

Scenarios

TURN OFF LIGHTS

I am Asdrúbal and I forgot to verify if I turned off all the lights before leaving home.
Unable to return home until the end of the day to turn them off, I access the application and check which lights are on and turn them off.

TURN ON ON THE WATERING/IRRIGATION

My name is Luís and I would like to have my lawn always green, so I need a system that allows me to schedule waterings without having to always be at home to do it by myself. For this purpose, I simply access the application and with the irrigation scheduling system perform this operation, choosing the time of day for irrigation and its duration.

OVEN AND CHANGE KITCHEN TEMPERATURE

I'm Vanessa, I'm done with my work today and I'm heading home with dinner, a lasagna that just needs to go in the oven to be ready. As it is winter and it is also very cold, I can access the application and in addition to programming the oven so that when I get home it is at the ideal temperature to be able to cook the lasagna, I also increase the temperature in the kitchen to enjoy the meal in an environment as comfortable as possible.

Observation

During the testing we noticed different issues with our prototype:

- The status/info in the homepage looks clickable making users trying to change the house on this section. Thus, we concluded to implement a functionality that if a user clicked on any of these icons, a balloon popup would appear with some more information. (Ex: the house has 2 lights on, clicking the lights icon in the status/info section will pop up a balloon saying 1 light on the kitchen and 1 on the bedroom).
- The rooms page is not adjustable in the prototype. We want to make it so that we can add or delete any room in case I can have access to more rooms or lose the “power” to control some other room. It will be solved by adding a plus and a trash bin icon at the top right corner.
- There is no easy and fast way to return to the homepage and we’ll be implementing a house icon to solve this problem.
- On the thermostat we have a text “Adjust” that might induce people in error since they have to slide the finger in the thermostat and not click in the “Adjust” text. The solution here would be just removing this text.
- There is not a global changer for all the rooms of the house. We’ll implement that in the rooms section and in the homepage.
- When selecting between select lights or change all the buttons need to be more separated to avoid people thinking it is the same button.
- Having a more automatic way to select a room to go to from the homepage. We are going to make a shortcut for that.

Description of user comments

- First User:
    - Easy access to the menu and the rooms page
    - Not very intuitive to change the lights of the room only got it after a few tries clicking in the room lights in the status/info section
    - Irrigation was simple to spot after the previous task. I already knew it had to go to the rooms page.
    - Easy to use the thermostat with a slider
- Second User:
    - Some difficulties changing the lights without any context (tried to click the lights in the status/info section in the homepage)
    - Very easy to turn off the lights once in the functionality.
    - Easy to work with the oven functionality
- Third User:
    - Just took a time and find it probably would be in the menu a way to change the lights
    - Found the garden with ease and turned on the watering. The irrigation schedule was not so easy.
    - Reached the kitchen easily and started changing the oven.
    - Changed the thermostat with no difficulties whatsoever.