

# Exercise - 6

October 12, 2023

## Objective

Create a touristic app with temperature and custom map pins.

## Motivation

Table view, auto layout, urls, maps, json parsing, stacked views, data transfer.

### \*\*\*Must Follow\*\*\*

You must follow the rules below. Otherwise, you will get **50% of your actual score.**

1. Start your XCode project “**Exercise6\_LastName\_FirstName**” (replace **LastName** with your last name and **FirstName** with your first name).
  - a. **DON'T DO** the following:
    - i. Start with any other project name and change the zip file name later.
    - ii. This will not be accepted at all.
2. You must have to do the exercise compatible with **XCode version 15.0** or higher.

## Tips

- **Read the question carefully, then start coding!**
- **Build, Build, and Build**
  - If you add anything on storyboard -> **Build**
  - If you make a reference from storyboard -> **Build**
  - Do not wait until finishing all parts and build.
  - It is easier to debug after each single feature added.

## Details

Create a multiple view iPhone application using Swift as a programming language. Start your XCode project “**Exercise6\_LastName\_FirstName**” (replace **LastName** with your last name and **FirstName** with your first name).

[3 pts] Design your interface to look like the screenshots [Figures 1, 2, 3]

- Design your UI for **all iPhone devices (iPhone 15)** in **Portrait** [Figures 1, 2] and **Landscape** [Figure 3] mode
- Pay attention to images, icons, colors, fonts and font sizes

[4 pts] Application gets the data from the remote json file, located at the address: <https://m.cpl.uh.edu/courses/ubicomp/fall2022/webservice/treasures.json> You need to fetch and parse that file. Data is populated to the cell prototype. At the initial [Figure 1] treasures, their ids and owners are depicted. Color is picked based on the value of each treasure. Scaled from 45 to 100. Colors: gold (rgb: 255/215/0), white (rgb: 255/255/255). At the details [Figure 2] screen map with the pin depicted. Hint for the treasure finders is listed under the pin. When the pin is pressed application highlights: administrative area, locality and iso country code under the hint.

[2 pts] When user performs a long press (2 sec) gesture on the map add a custom pin [Figure 3]. Each pin should have a unique number and subtitle. Pins are removed when you are switching between the screens (numbers are refreshed).

[1 pt.] Add a splash screen, add a proper icon for the app.

## Extra Points

**To earn extra points, implement the main functionality mentioned above without any errors or issues.**

[1 pt.] Add delete treasure functionality [Figure 5].

[2 pt.] Add search box to search/filter treasures by ID, Type or owner.

[2 pt.] Add support for all layouts.

## Submission

Zip XCode project and submit to the TEAMS. The name of your zip file will be automatically “**Exercise6\_LastName\_FirstName.zip**” (**LastName** is your last name and **FirstName** is your first name). One submission per person.

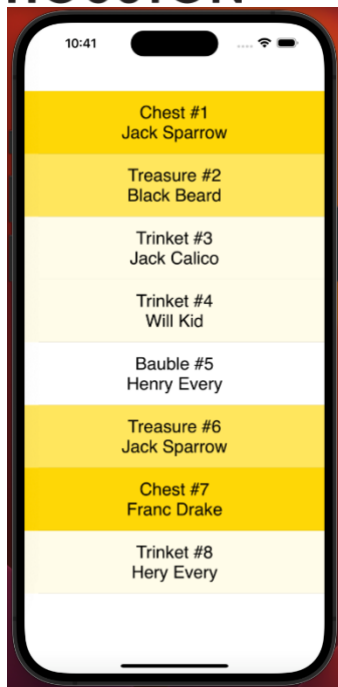


Figure 1

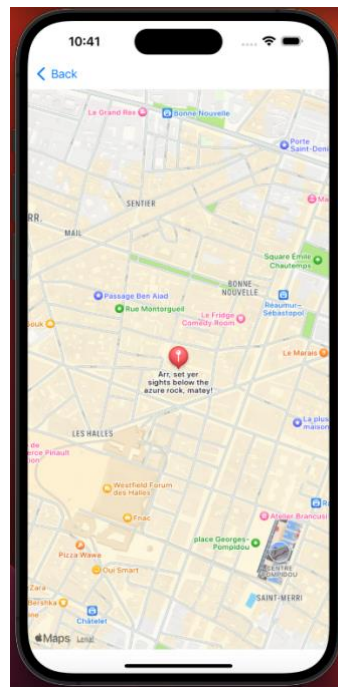


Figure 2

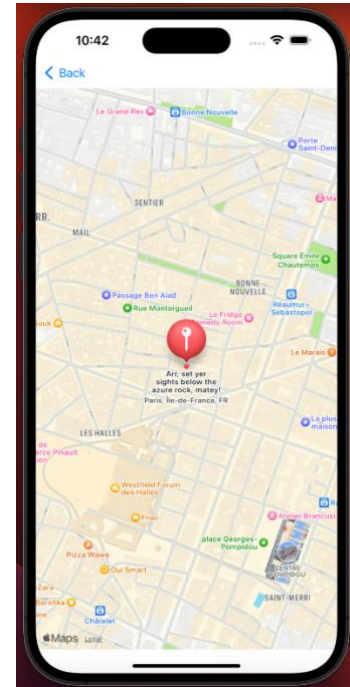


Figure 3

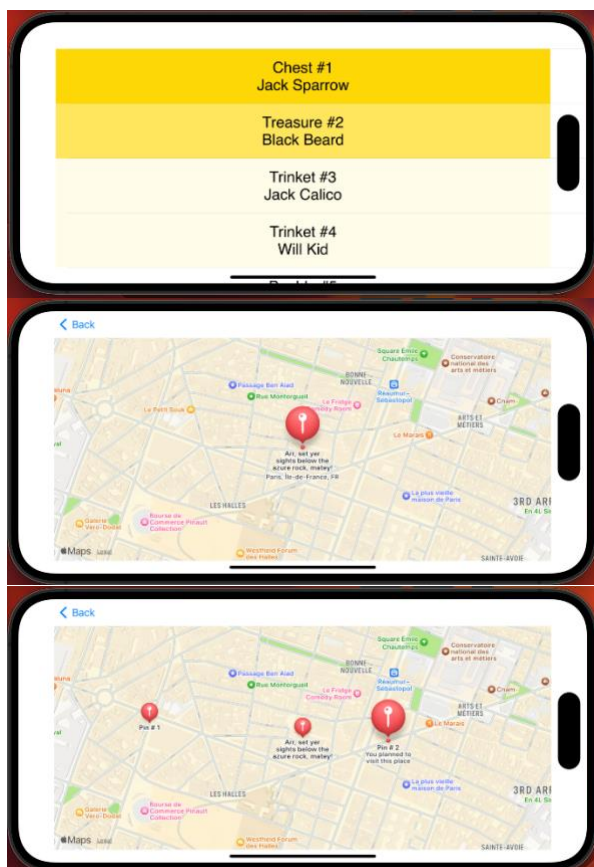


Figure 4

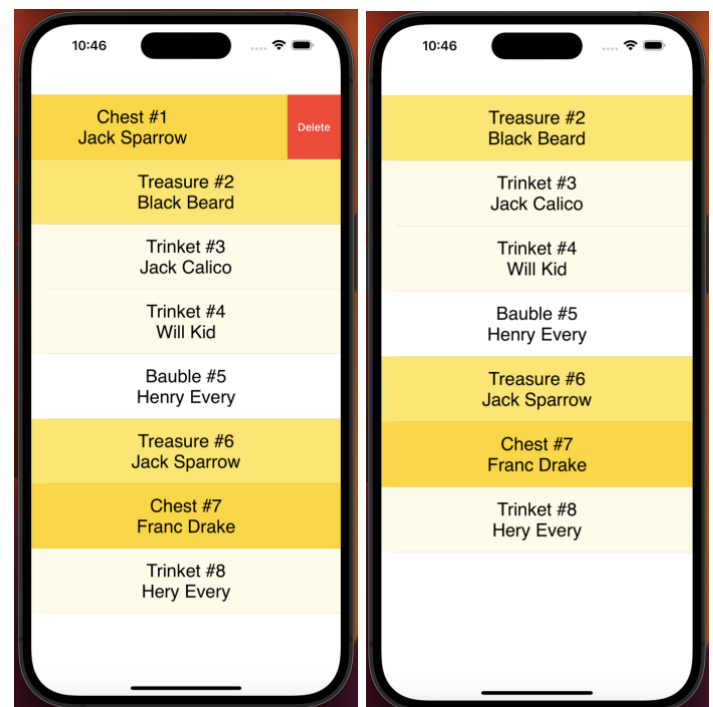


Figure 5