

HUY TRAN - Mingle - Weather App

(Documented - Feb 11, 2020)

Weather app

You will create a simple version of Yahoo Weather

<https://apps.apple.com/us/app/yahoo-weather/id628677149>

View the current weather and the next 05 days of weather forecast in selected cities. User can add / remove cities

App Description

Minimum deployment target: iOS 10

Device: iPhone only

Orientation: Portrait only

Language: Swift 5

Run App

1. CocoaPod

Please install Cocoapod: <https://cocoapods.org/>

Project Structure

2. App-Config

This folder stores all configs of application such as constants, global variable, resources, testing id.

3. Api

API service helps applications call web api.

4. *Entity*

This folder stores all models and responses of applications such as cityModel, weatherModel, dayModel, TempModel.

5. *ViewController*

This folder stores all controllers to process UI.

6. *View*

Custom views have been stored, process UI and model.

7. *Common Extension*

Extension such as UI Element Extension, type extension ...

Third Party

1. *Alamofire*

Alamofire is an HTTP networking library written in Swift.

Alamofire makes developing networking layers easier, faster and cleaner.

Using Alamofire we will have a cleaner project. API call interactions (POST/GET/PUT/etc.) will be easier and more understandable.

2. *AlamofireObjectMapper*

An extension to Alamofire which automatically converts JSON response data into swift objects using ObjectMapper.

Extension

1. *UIImageView*

Loads image from web asynchronously and caches it, in case you have to load url again, it will be loaded from cache if available

Testing

1. *Device*

Iphone 8 and Iphone 11 (Simulator with ios 13)

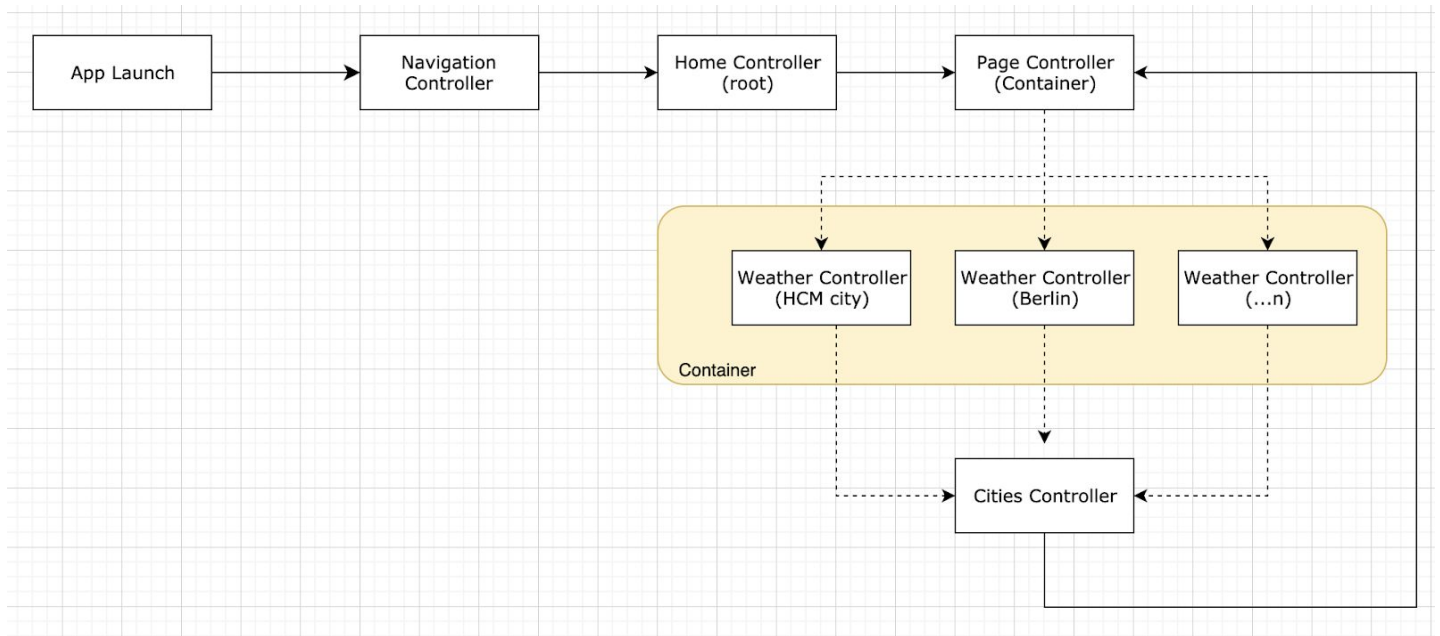
2. *UITest*

- App launch.
- Display Today Weather information (HCM).
- Display 5 Days Weather information.
- Display City Name label.
- Display Location button.
- Show list of cities screen.
- Select other cities.
- Swipe to another city on the main screen.

3. *Unit Test (Test API)*

- Get City info from city id.
- Get List of weather from city id.
- Fail when getting data from incorrect id.

Workflow of Application



Models

