

Thirdwayv iOS Challenge

Challenge deliverables:

Once you are done, send a downloadable link for the below deliverables.

- Project source code (Must be compliable and runnable).
- Readme file describes which architecture and design patterns are used, and why

Challenge details:

Create a mock API that returns the data that exist in the attached JSON file, you can use any online free service hosting like myjson, then

Write an app that connects to the mock API and displays a list of products.

The products list can be scrolled infinitely to load more products [recall the service to get the same data retrieved before. So each scroll should add another 20 items].

When a product is selected, a new product details view should be displayed. This view contains a larger version of the product image along with the product description.

Design (check the attached screenshot)

You will need to display 3 pieces of information, `productDescription`, `price` and an image. The images have a variable height that is returned by the API in the `image` dictionary. `productDescription` also has a variable length and should be fully displayed in the products list screen.

You need to implement a custom animation between the products list and product detail's view controllers

Caching

Products returned by the API should be cached locally. Feel free to work with any caching mechanism you prefer. When there's no internet connection, the app should display the cached data. As soon as an internet connection is available again, the app should make a request to the API to request new data and update the local cache.

Evaluation criteria:

- You **MUST** not use third-party libraries.
- Your code will be evaluated on how **clean** and **modular** it is.
- Your code should be thread-safe.
- Your app should cover all **corner** cases ex: no internet connection, caching failure, and so on.
- App should support running on all screen sizes.