iOS Developer Assesment

Dear Candidate,

Please read following assignment carefully before any implementation.

Introduction

In this assignment you should show your knowledge of the following:

- A Design Pattern
- Protocols & Delegates
- Data Persistence
- JSON Mapping
- Error Handling
- Asynchronous programming

You should use a public Github repo to push your code. Please make sure you push descriptive commits. Share with us the repo URL once you complete the app.

Assignment deadline is **4 days** after you receive it.

Description

This app is an iOS iPad app which displays the menu of a test restaurant. The menu consists of categories and products. A category can contain many products. A product belongs to one cateegory only.

The app should work as follows:

- Display a splash screen with restaurant logo. Use any image for the logo.

- Download all categories and products when it is first launched.

- If the download process went successful, the app should save the categories and products locally then display the menu. If the download fails, the app should display an alert that allows the user to retry the download.

- When the local save process is complete, the app should display the menu items right away, and each time the app is launched, it should display the menu without re-downloading it.

Menu download

The app should use the following API to download the menu.

API base URL	https://api.foodics.dev/v5 (https://api.foodics.dev/v5)
Accept Header	Accept: application/json
Authorization Header	Authorization: Bearer {token}
Categories endpoint	/categories
Products endpoint	/products?include=category

The API will return a max of 50 items per page. You can not change the number of items returned per page. You can only use the `page` param to change the current page.

Menu display

In menu display, show categories in a collection view, each category has id and name. Show the category name only in the UI.

The categories screen should be paged. Each page should contain a maximum of 20 categories. The categories screen should have Next and Previous navigation buttons to move in between pages.

When the user taps a category, navigate to a new screen which displays products in the selected category. A product has id, name, category id, price and image. Display the product name and image in the UI.

The products screen should be paged. Each page should contain a maximum of 20 products. The products screen should have Next and Previous navigation buttons to move in between pages.

When user taps a product, navigate back to categories screen and show a popup with the tapped product details (name, image and price).

Good luck!