

Test task Documentation

Documentation

This document provides an overview of the external APIs and libraries used, along with a guide to the code structure and primary modules in the project.

External APIs and Libraries

Kingfisher

- **Purpose**: Downloads and caches images for iOS.
- **Why Used**: Kingfisher efficiently handles image caching and downloading, which is particularly useful in list views or galleries where images are loaded frequently.

Code Structure Overview

The project is organized as follows:

- **AppDelegate.swift**: Configures the app's lifecycle and manages essential setup.
- **Cells**: Contains custom table view cells for displaying user and position information.
 - **UserTableViewCell**: Displays individual user information in a table view.
 - **PositionTableViewCell**: Displays position information in a table view.
- **Fonts**: Contains custom fonts (e.g., Nunito-Regular and Nunito-SemiBold) used in the app's UI.
- **Model**: Contains data models used across the app.
 - **GetTokenResponse**: Represents the response for the `getToken` API call.
 - **Position**: Model representing a user position.
 - **RegisterUserResponse**: Represents the response for the `registerUser` API call.
 - **UserModel**: Model representing user data.
- **View**:
 - **NoInternetView**: A custom view displayed when there is no internet connection. It includes retry functionality.
- **ViewController**:
 - **CustomViewController**: A view controller as a base view controller in app
 - **ResultViewController**: Displays user registration result.

- **SignUpViewController**: Manages user registration, allowing users to input their details and submit a signup request.
- **UsersViewController**: Displays a list of users, handling pagination and data fetching for the user list.
- **NetworkMonitor.swift**: Manages network status monitoring and notifies views when the connection status changes.
- **DataManager.swift**: Contains API request functions, including `getPositions``, `fetchUsers``, `performRegistration``, `performRegistration``, `registerUser``, and `getToken``. This is the primary class for coordinating data interactions between the app and external APIs.
- **Assets.xcassets**: Holds images, colors, and other assets used in the app.
- **Info.plist**: Stores metadata about the app, such as permissions and configuration details.
- **LaunchScreen.storyboard**: Defines the initial launch screen of the app.
- **Main.storyboard**: Contains the main UI layout and navigation setup for the app.
- **SceneDelegate.swift**: Manages scene lifecycle for multi-window support.

Code Usage Examples

```
- Fetching User Data:
```swift
DataManager.shared.getPositions { result in
 switch result {
 case .success(let positions):
 // Update UI with positions
 case .failure(let error):
 // Handle error
 }
}
```