

Fetch – Take Home Exercise

Overview

The Take Home Exercise is a project that demonstrates fetching, parsing, and displaying items from a remote server in a table view. It includes a custom table view cell (ItemCell) for displaying each item and a manager (ItemManager) for fetching and processing the items.

Installation

To install the project, follow these steps:

1. Clone the project from GitHub.
2. Open the project in Xcode.
3. Build and run the project on a simulator or device.

Architecture

The project follows the Model–View–Controller (MVC) pattern:

- **Model:**
 - **Item:** Represents an item retrieved from the remote server. It has three properties: id, listId, and name.
 - **ItemManager:** Responsible for fetching items from the remote server (urlString), parsing the JSON response, and processing the items. It includes methods for fetching items (fetchItem(completion:)), parsing JSON (parseJSON(itemData:)), and processing items (getResult(items:)).
- **View:**
 - **Main View:** The main view of the application, which includes a table view for displaying the list of items fetched from the server.
 - **ItemCell:** A custom table view cell for displaying each Item in the table view. It contains outlets for listId, id, and name labels.
- **Controller:**
 - **View Controller:** Uses ItemManager to fetch items and displays them in a table view using ItemCell.