

# IOS - SWIFTUI

---

## Description

The goal of this task is to implement a reference book for the Star Wars universe using [SwiftUI](#) and the [GraphQL](#) endpoint [SWAPI](#). *Even though the tasks build on each other it is recommended to read the whole task description before starting to code.*

### Part 1: Core functionalities

The application consists of the following three lists that can be switched using a nav bar at the bottom of the screen. For each of the list items display the corresponding name as the title and the amount of film references as a subtitle.

1. Characters list (called people in the Api)
2. Star ships
3. Planets

### Part 2: Lazy list

You now realize that there are plenty of items per list. If not already implemented, add pagination to your list queries. You can play around to find a suitable page size. SWAPI's pagination is a cursor pagination. It is up to you whether you keep the data cursor paginated on the end users phone or map the data model as a lazy list.

### Part 3: Detail view

Clicking on a list item must forward to a dedicated view that contains at least 6 additional attributes for the selected list item. You can check out the endpoint [SDL](#) / playground to get some insights. You decide how you want to present this information. Be creative!

## Part 4: Favorites

We like some characters more than others and want to reflect that in the app. For this reason, the list of characters should have an additional function with which you can mark individual list elements as favorites. Possible solutions are SwiftUI swipe actions, a button in the list element or a context menu. If an element has been marked as a favorite, it should also be highlighted visually. To be able to access the favorites even faster, this list must have a filter, which limits the content to our favorites. **Note:** Make sure that no additional request is made to the server when the filter is applied.

## Part 4: Security

Since our app contains sensitive data :), we have to make sure that it remains protected. To access the app, it must be unlocked in advance either via iPhone pin or biometrically.

## Our expectations

What we want to see from you is a logical view based breakdown of the project. Make sure to separate data fetching code and UI code. We do not provide any design templates. Please come up with an appealing and consistent UI while sticking to best practices throughout the project. Furthermore, we want to see that you understand the SwiftUI lifecycle and can apply it. The libraries below will give you some ideas how to start and are **mandatory** for the completion of the task.

## Resources and libraries

- [SWAPI endpoint + playground](#)
- [SwiftUI](#)
- [SwiftUi MVVM](#)
- [Apollo Client iOS](#)
- [ApolloSQLite](#)
- [GraphQL Codegeneration](#)