

iOS Programming Exercise

Here's the latest version of the iOS programming exercise for recruiters to share with candidates — click it to open the entire document. Note the comments about using ChatGPT, etc. Ideally, recruiters would send this as an attachment so that the formatting is clear.

We ask candidates to spend limited time on this. A complete solution to this exercise takes more than an hour. As the instructions state, this isn't about how much you get done, it's about how well you implement the subset of the exercise you choose to tackle. You can tell a lot about a candidate's experience by reading a couple hundred lines of their code.

1. Fetch a list of countries in JSON format from this

URL: <https://gist.githubusercontent.com/peymanowmt/32dcb892b06648910ddd40406e37fdab/raw/db25946fd77c5873b0303b858e861ce724e0dcd0/countries.json>

2. [Display all the countries in a UITableView](#) ordered by the position they appear in the JSON. In each table cell, show the country's "name", "region", "code" and "capital" in this format:

```

| "name", "region"                "code"
|
| "capital"
|

```

For example:

United States of America, NA	US
Washington, D.C.	

Uruguay, SA	UY
Montevideo	

The user should be able to scroll thru the entire list of countries.

3. Use a `UISearchController` to enable filtering by "name" or "capital" as the user types each character of their search.

The implementation should be robust (i.e., handle errors and edge cases), support Dynamic Type, support iPhone and iPad, and support device rotation. Please use UIKit, not SwiftUI, for this exercise.

Limit the time you work on this exercise. We don't expect you to finish. The goal is to write high-quality code for the portion you choose to implement, not the number of features implemented.

It's okay to use Google, Stack Overflow, ChatGPT, etc. for help, but be forewarned that we expect candidates to have a *solid* understanding of Swift and UIKit, so if you find yourself requiring much assistance, you are likely not a good fit for our position and will not make it thru our live debugging, coding, and architecture interview process that follows this exercise.

Please zip up your Xcode project and email it – do not post on GitHub.
Thank you.