App Name:

- CountryList

Minimum OS Version:

- iOS 15.0

Used XCode Version:

- 14.3.1

Endpoint used :

https://gist.githubusercontent.com/peymano-wmt/32dcb892b06648910ddd40406e37fdab/raw/db25946fd77c5873b0303b858e861ce724e0dcd0/countries.json

Goal:

- Build an simple app to list all country name, region, code and capital
- Allow users to search by country name and capital.

Used Design pattern:

- MVVM (Model - View - Viewmodel)

Language Used:

- Swift

Feature Highlight:

- Used UISearchController and UITableview
- Used async / await
- Added test cases
- Created UI components by code except the default view controller that comes with the initial project setup

Unit test coverage :

- NetworkHelperTests
- CountryListTableViewCellTests
- CountryListViewModelTests

Improvements:

- Network activity indicator can be added

- Table view header or footer can be added with the search result count

- Current implementation will show generic alert (No Result Found.)for now, this can be changed to display custom alert for different types. (Ex: Error in connecting server, Error in connecting Server).

- As we have only one module I wrote parsing logic specific to the case that we need. This can be generalized and make it more reusable.

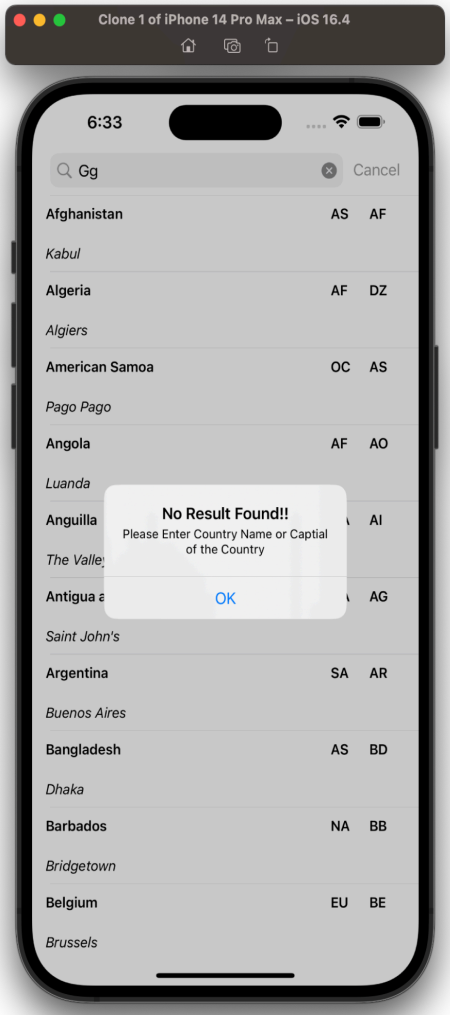
- If we have a clear idea about the http status code, we could define more error cases and return a particular error type.

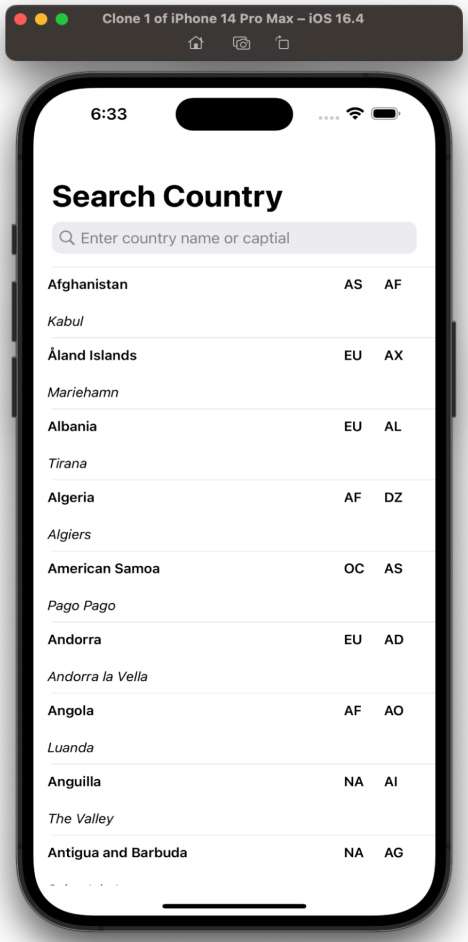
- We could add `N/A' in the model itself when the data is missing. Currently I am showing N/A in the UI. Adding in the Model will allow users to search by N/A as well.

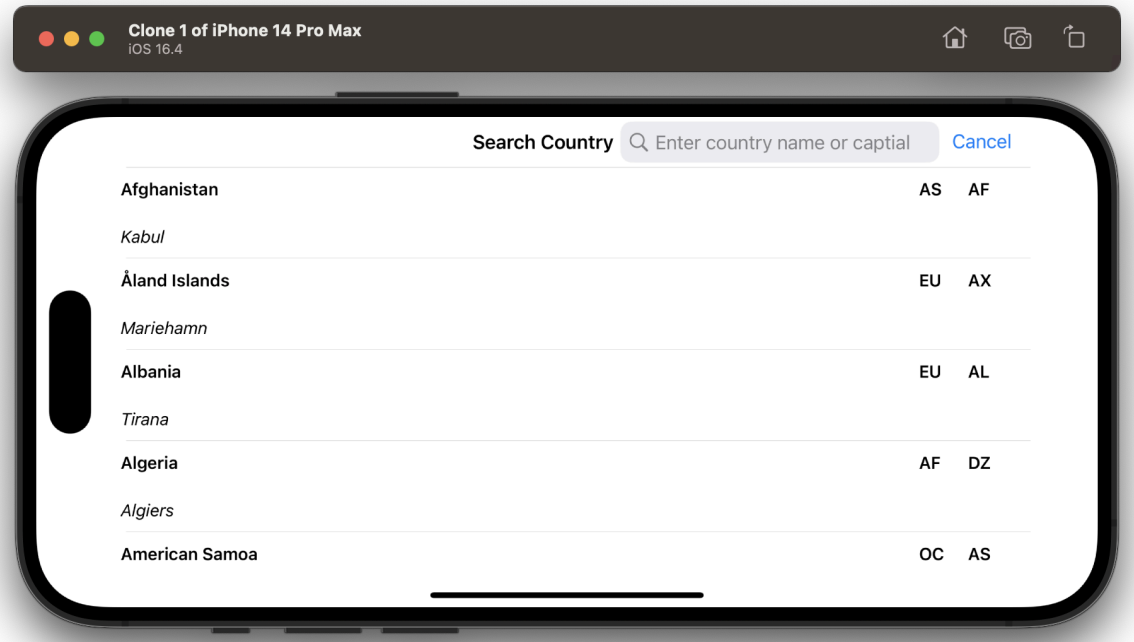
- As current requirement have only one URL, directly used the Url, If we have multiple url and paths are there we could have added URL construction logic

Folder structure:

Screenshots:


Clone 1 of iPhone 14 Pro Max – iOS 16.4
6:33
Gg
Cancel
Afghanistan AS AF
Kabul
Algeria AF DZ
Algiers
American Samoa OC AS
Pago Pago
Angola AF AO
Luanda
Anguilla AI
The Valley
Antigua a AG
Saint John's
Argentina SA AR
Buenos Aires
Bangladesh AS BD
Dhaka
Barbados NA BB
Bridgetown
Belgium EU BE
Brussels
No Result Found!!
Please Enter Country Name or Captial of the Country
OK


Clone 1 of iPhone 14 Pro Max – iOS 16.4
6:33
Search Country
Enter country name or captial
Afghanistan AS AF
Kabul
Åland Islands EU AX
Mariehamn
Albania EU AL
Tirana
Algeria AF DZ
Algiers
American Samoa OC AS
Pago Pago
Andorra EU AD
Andorra la Vella
Angola AF AO
Luanda
Anguilla NA AI
The Valley
Antigua and Barbuda NA AG


Clone 1 of iPhone 14 Pro Max
iOS 16.4
Search Country
Enter country name or captial
Cancel
Afghanistan
AS
AF
Kabul
Åland Islands
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AX
Mariehamn
Albania
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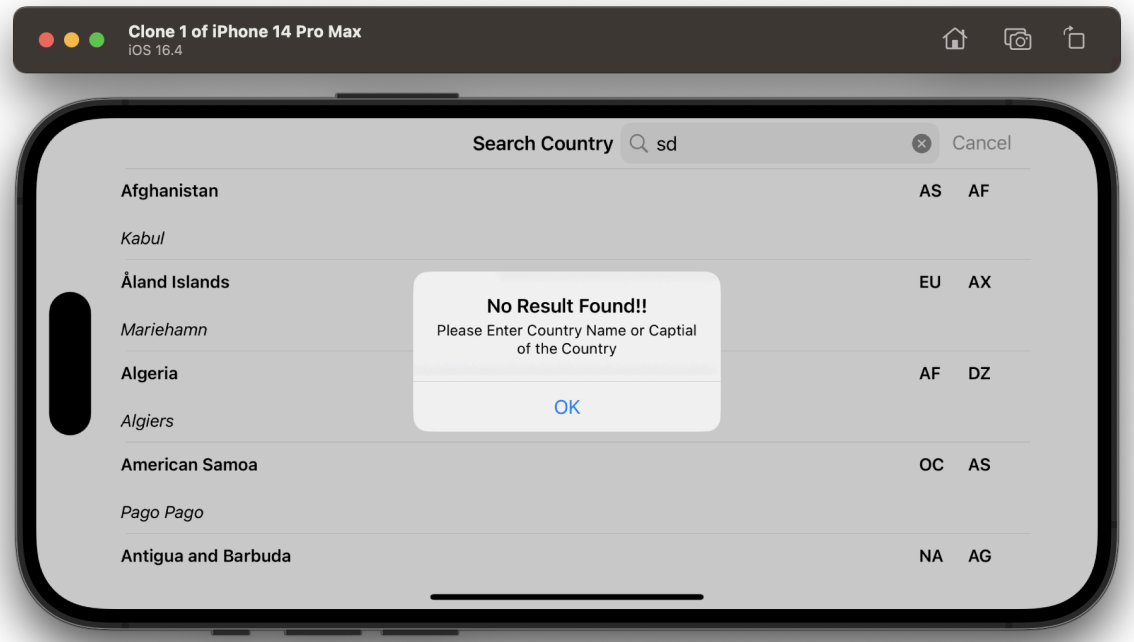
Tirana
Algeria
AF
DZ
Algiers
American Samoa
OC
AS


Clone 1 of iPhone 14 Pro Max
iOS 16.4
Search Country
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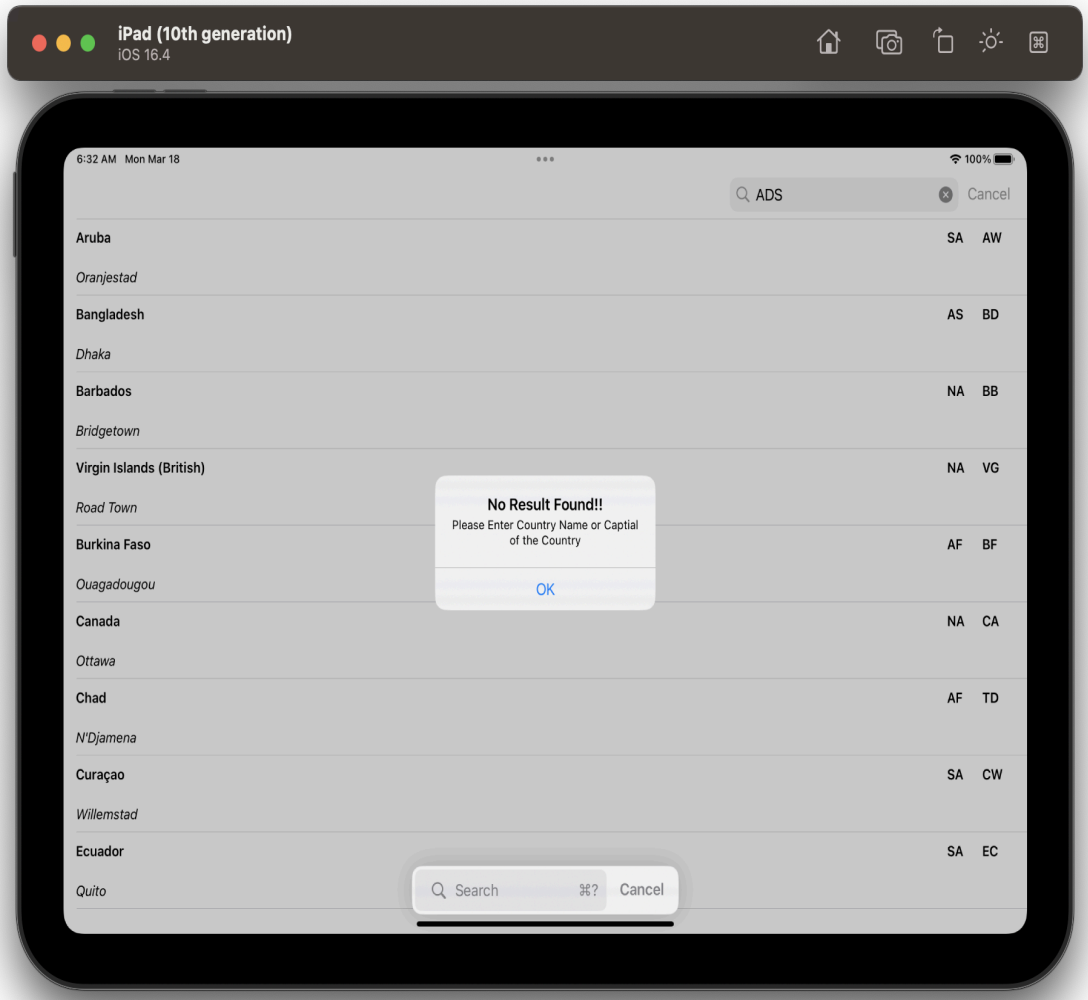
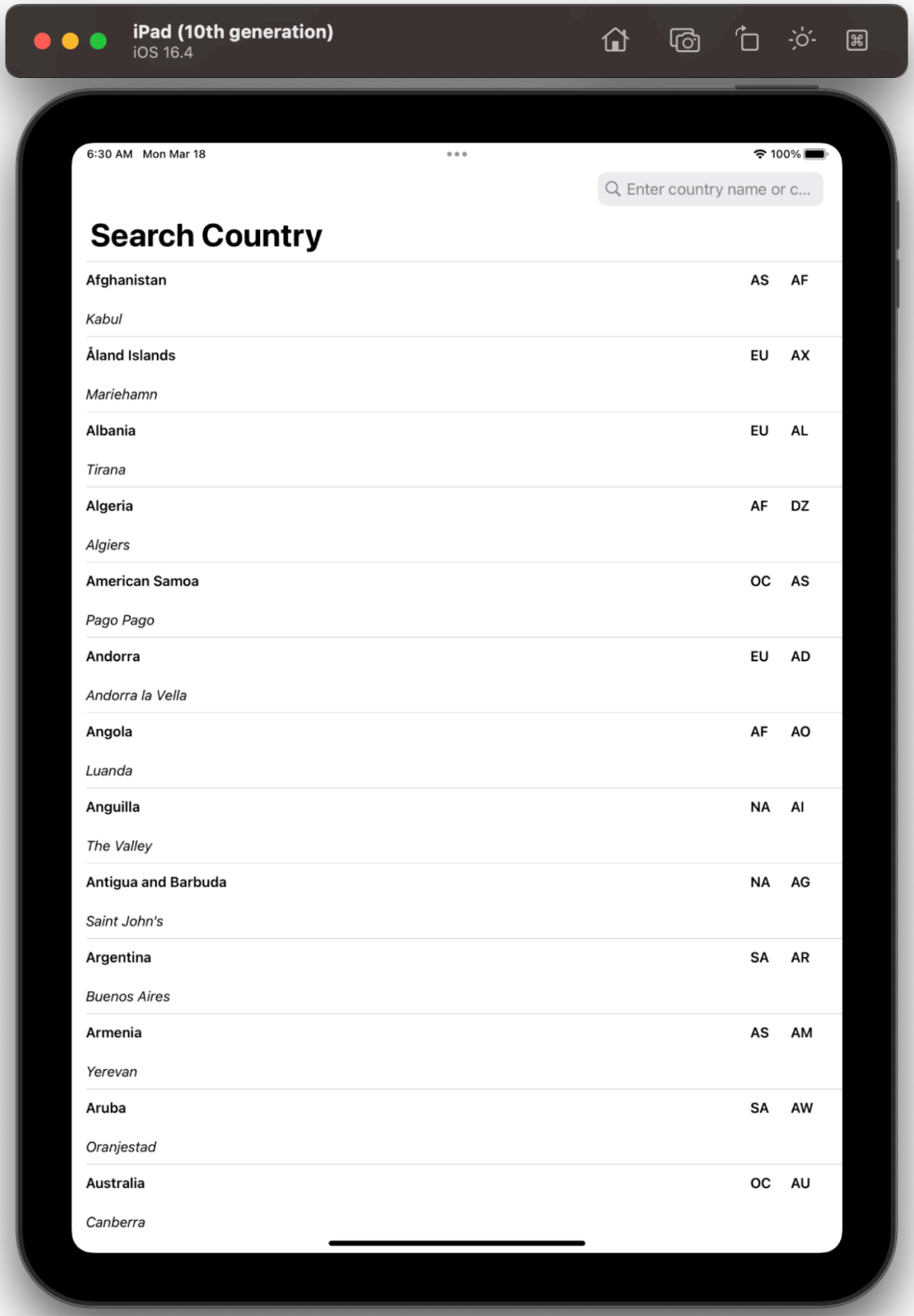
Cancel
Afghanistan
AS
AF
Kabul
Åland Islands
EU
AX
Mariehamn
No Result Found!!
Please Enter Country Name or Captial of the Country
OK
Algeria
AF
DZ
Algiers
American Samoa
OC
AS
Pago Pago
Antigua and Barbuda
NA
AG


iPad (10th generation)
iOS 16.4
6:32 AM Mon Mar 18
100%
ADS
Cancel
Aruba
SA AW
Oranjestad
Bangladesh
AS BD
Dhaka
Barbados
NA BB
Bridgetown
Virgin Islands (British)
NA VG
Road Town
Burkina Faso
AF BF
Ouagadougou
Canada
NA CA
Ottawa
Chad
AF TD
N'Djamena
Curaçao
SA CW
Willemstad
Ecuador
SA EC
Quito
No Result Found!!
Please Enter Country Name or Captial of the Country
OK
Search
⌘?
Cancel


iPad (10th generation)
iOS 16.4
6:30 AM Mon Mar 18
100%
Enter country name or c...
Search Country
Afghanistan AS AF
Kabul
Åland Islands EU AX
Mariehamn
Albania EU AL
Tirana
Algeria AF DZ
Algiers
American Samoa OC AS
Pago Pago
Andorra EU AD
Andorra la Vella
Angola AF AO
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The Valley
Antigua and Barbuda NA AG
Saint John's
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Yerevan
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Canberra