**BBVA – iOS Assessment**

* **Requirements:**

1. Create an iOS Universal framework project that exports a custom UITableViewCell class.
2. Navigation Controller based application with one single view controller.
3. Create a Network Controller class which is used to fetch the JSON data from the URL.
4. The JSON data from the URL response model in data model classes.
5. Each row must show all the details of the "State" data that is sent in the above URL, using the custom UITableViewCell from the framework.
6. Create an NSString Category class with a function that can convert.

* **Additions**:
* Written in Swift.
* Fetch data asynchronously:
  + Avoid blocking the main thread while fetching data.
  + Updating the table view right after we have data. (update UI on main thread by DispatchQueue.main.async)
* Used MVVM Architecture:
  + Models: Struct object to parse data from JSON.
  + Views: Main view for users.
  + ViewControllers: Work directly to ViewModels (not Models), update table.
  + ViewModels: Connect to API, get data, parse data from JSON to Model Object. ViewModels works between Models and Controllers, connect them.
* Moved UITableViewDataSource and UITableViewDelegate to the extension of ViewControllers instead of inside ViewControllers file for clarity (can find in folder Extension).
* Connected to API by NSURLSession.
* Used protocol Codable to parse data from JSON to Object Model as requirement.
* NSString Category was written in Objective-C and import into the project.
* Auto-layout for cells, which were created by Framework.

Thank you and have a good day.