

NYC Schools Application

JPMC iOS Coding Challenge

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Submission

The submission contains a github repo URL where the complete code for the application has been committed.

- Github link – <https://github.com/gssatya/nyc-schools>
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Dev Tools

This application has been developed using the below tools/frameworks.

- Cocoapods (v1.11.2)
 - Xcode 14.0.1
 - Swift 5
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Steps to run the app in Xcode

(Can also be found in the **README.md** in the project root folder)

1. Open the command line terminal and go to the path
`../nyc-schools/NYCSchools/`
 2. Install the project dependencies using the cocoapods command
`pod install`
 3. Open the **NYCSchools.xcworkspace** in Xcode and run the app.
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App Common Framework

This app is dependent on the **app-common** Framework. The framework source code can be found under the '**app-common**' folder and will be added to the application project using cocoapods. This has been done, keeping the reusability and clean coding practices in mind.

The source for this framework lies in the same github repo as mentioned above.

../nyc-schools/app-common

Ideally, this kind of framework can be maintained in an individual repo and can be shared between multiple apps, to reduce the efforts and increase the reusability within the org.

Some of the common components included in the framework are

- Network Management
 - Local Storage management
 - App Navigation
 - Extensions
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App Features

This app contains the following features as described in the requirements.

- On launching the app displays the list of schools in NYC as received from the API.
 - On selecting any school from the list, the app navigates to another screen, displaying the SAT scores of the selected school.
 - This is a Universal application running on both iPhone and iPad.
 - The app supports only the portrait orientation in iPhone and supports all 4 orientations in iPad.
 - Minimum iOS version supported - iOS 13.0
 - On launching the app, the app will display the list of planet names as received from the API.
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Additional Features

Apart from the required ones, some additional features have been included in the app.

- **Sorting:** Included this feature to sort the School's list based on name, student strength & safety score. If needed, sorting can be extended based on other properties as well.
- **Search:** Included a search bar on top the page to easily filter the Schools list based on the name.
- **Offline usage:** Offline viewing capability has been included in the app. However, the app cannot support the offline mode during the first time it is launched on a device. The data will be cached only when the app receives the data from the server and it can support the offline mode in the subsequent launches.
- **Contact Details:** On selecting a school from the list the screen displays the contact details of the school, apart from the SAT scores. Clicking on the contact details will invoke appropriate actions from the device (i.e. initiates a phone call, if the user clicks on the phone number row.)