Assignment

Evaluation Criteria for this Assignment

- 1. Class and method names should clearly show their intent and responsibility.
- 2. 'SOLID' Principles.
- 3. Latest App architecture and navigational pattern (if possible) should be used.
- 4. UIViewControllers should not know too much explicit knowledge about non UI Classes. The need for domain objects.
- 5. We do not like long methods or classes. Let alone huge UIViewController classes.
- 6. Your software should easily accommodate possible future requirement changes.
- 7. We will assess a number of things including the design aspect of your solution and your object oriented programming and protocol oriented programming skills.
- 8. Tests are great, but testability is more important. Please Unit Test all non-UI classes. Mocking, Stubbing, TDD if possible. Please handle all types of error, which could occur.

Instructions:

- 1. The code must be available via GitHub in order to de downloaded, built and executed. Having expressive commit messages will add value.
- 2. Having a ReadMe (in the GitHub) will add value. The file can have information like
 - 1. Used design pattern and App architecture
 - 2. Code Structure
 - 3. User guide to use the app
 - 4. Notes that the developer find to be important
 - 5. Third parties used, If any
 - 6. Unit test info, If any
- 3. Document your code.
- 4. Code should not contain any warnings, or errors.
- 5. Downloaded Data should be Cache
- 6. Image loading should be smooth
- 7. App should support all iPhone devices (both orientation will be plus point)
- 8. You may use external libraries or tools for building or testing purposes. If you're using anything that's not written by you, mention it.

Requirements:

- 1. As a user at the Movie List Screen,
 - 1. I should see a popular movies list view(in grid) with the following cell
 - Movie Poster
 - ii. Movie name
 - iii. Release date
 - iv. Favorite icon
 - 2. If user tap on favorite icon it will save this movie record in local DB and mark favorite.
 - 3. If there are no internet or loading new list, it will show the cache data and update list on loading new movies data from the server.
 - 4. When I tap on any cell it will open Movie Detail Screen

- 2. As a user at the search screen,
 - When I enter a name of a movie (e.g. "Avengers") in the search box it will show the live results (update results on characters change there will be different result for "Av" and "Aveng")
 - 2. Then I should see a new list view with the following rows
 - Movie Poster
 - ii. Movie name
 - iii. Release date
 - iv. Favorite icon
 - 3. When I tap on any cell it will open Movie Detail Screen
- 3. As a user at the Movie List Screen,
 - 1. When I scroll to the bottom of list
 - 2. Then next page should load movies if available
- 4. As a user at the search screen,
 - 1. When I enter a name of a movie that doesn't exist in the search box and tap on "search button",
 - 2. Then, an alert box should appear and display an error message.
 - 3. All types of error should be handled
- 5. As a user at the search screen,
 - 1. When I tap and focus into the search box
 - 2. Then an auto suggest list view will display below the search box showing my last 10 successful queries (exclude suggestions that return errors)
 - 3. Suggestions should be persisted.
- 6. As a user at the search screen with the auto suggest list view shown,
 - 1. When I select a suggestion
 - 2. Then the search results of the suggestion will be shown.
- 7. As a user at the Movie Detail Screen
 - 1. Then I should see a Detail view with the following things:
 - i. Movie Banner in header
 - ii. Movie Poster
 - iii. Movie name
 - iv. Release date
 - v. Favorite icon
 - vi. Full Movie Overview
 - 2. Detail Page supports different layout for portrait and landscape orientation for better readability
- 8. As a user at the favorite screen,
 - 1. Then I should see a saved (in DB) favorite list view with the following rows
 - i. Movie Poster
 - Movie name
 - iii. Release date
 - iv. Favorite icon
 - 2. If user tap on favorite icon it will mark it unfavorite and removed from DB
 - 3. When I tap on any cell it will open Movie Detail Screen
- 9. Internet connection should be checked along with other data handling
- 10. You can add more features, if you want

APIs to use:

- 1. Movie List: https://api.themoviedb.org/3/movie/popular?api_key=e5ea3092880f4f3c25fbc537e9b37dc
- 2. Search Movie: https://api.themoviedb.org/3/search/movie?api_key= e5ea3092880f4f3c25fbc537e9b37dc1&query=[Movie_name]&page=1
- 3. Poster image: https://image.tmdb.org/t/p/w92/[poster_path]