

Thank you for giving me the opportunity to have interview with Redfin team.

I spend about 5 hours to finish this project.

- 1: Read project documentation, understood requirement and explored API documentation. (30 mins)
- 2: Retrieved and explored data from API response and tested it with different filters. (20 mins)
- 3: Planned and designed project structure based on feature requirements. (20 mins)
- 4: Worked on view controllers. (30 mins).
- 5: Worked on view models (30 mins)
- 6: Worked views, including list view, map view and their subviews and connect views with view models. (2 hours).
- 7: Polished code, including code quality, views' styles, tested different test cases. (1.5 hours)

Design principle:

I design the project based on MVVM pattern. I group the classes based on their purposes, including view controller folder, view folder, view model folder and API folder. The advantage of MVVM is to separate view model and view from view controller and makes code readable. If building upon this for a full-scale application, 1: I would polish the UI's style, like font size and style. 2: I need to show empty list view and map view with customized message if there are no food trucks available. 3: Customize the map view which only displays the default map now and provide accessory views and more features to users. 4: I need to handle the use case like users click the list and map button too frequently. Cancel the previous requests if sending by users too frequently. 5: I need to handle error correctly and implement customized error with readable message, either from backend side or client side. 6: Added unit tests to UI tests to test the application.