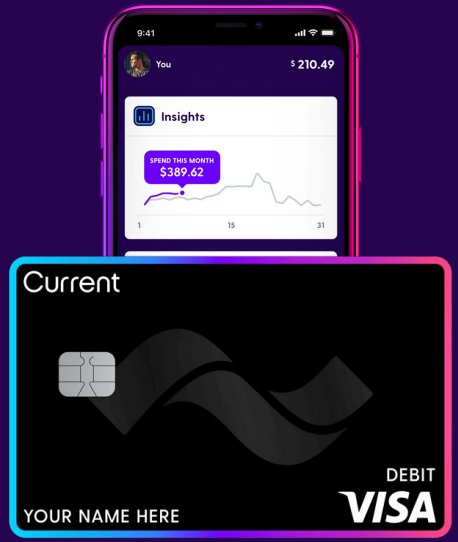
Current

# iOS Code Challenge

## “Fast Foodz” app



# PROJECT OVERVIEW

The goal of the assignment is to build a simple app that finds fast food places nearby in 4 popular categories: Burgers, Pizza, Mexican and Chinese. The app is using the user's location and searches Yelp API to display them in two different views: on the map and in the list. When user selects a place, the app will display driving directions in another screen using Apple's MapKit APIs.

In assignment files, you will find a video of completed app for your reference and a starter Xcode project with all necessary resources included.

# PROJECT GUIDELINES

- You can use either Objective-C or Swift (highly preferred)
- You can use either REST or GraphQL API provided by Yelp
- You can use any 3rd party dependencies (Alamofire, Kingfisher, etc)
- You should use default UIKit components unless specified otherwise
- You are **not** required to write any tests
- You are **not** required to handle network connection errors
- **Make sure the project builds before submitting it for review**

... and feel free to contact us if you have any additional questions!

# YELP API

To search nearby fast food places, you will use Yelp's **Business Search** API.

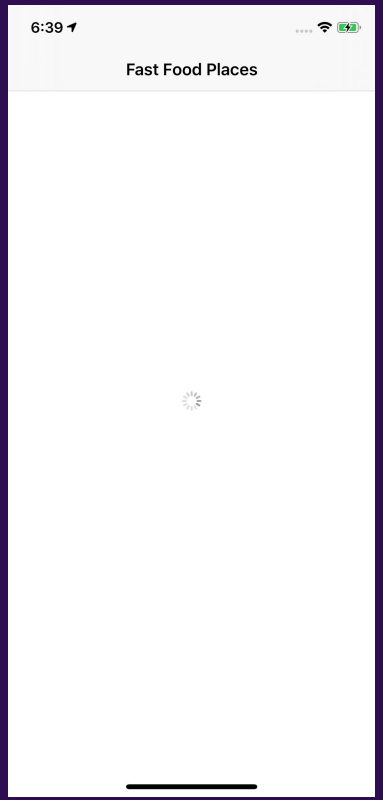
Documentation: REST and GraphQL

To **authenticate** (guide), you will need an API key which is located in *APIKey.swift* file inside provided Xcode project. Please, **do not** share this key with anyone and **do not** abuse Yelp's API Terms of Use.

In addition to obtained from user's location latitude and longitude values, you should use the following parameters to query places:
*radius = 1000, sort_by = distance, categories = "pizza,mexican,chinese,burgers"*

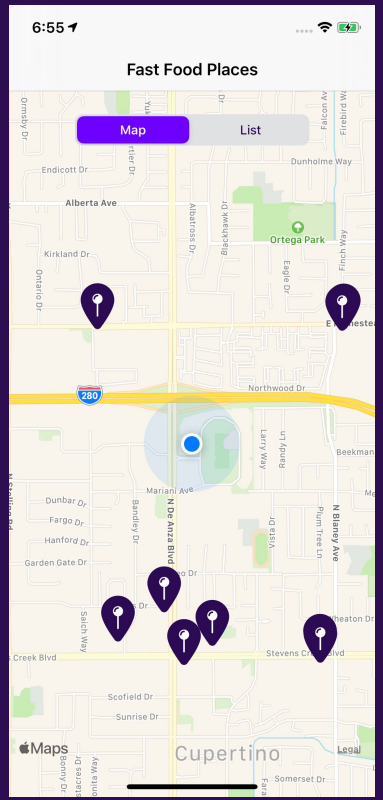
Use *(40.758896, -73.985130)* as the default value.

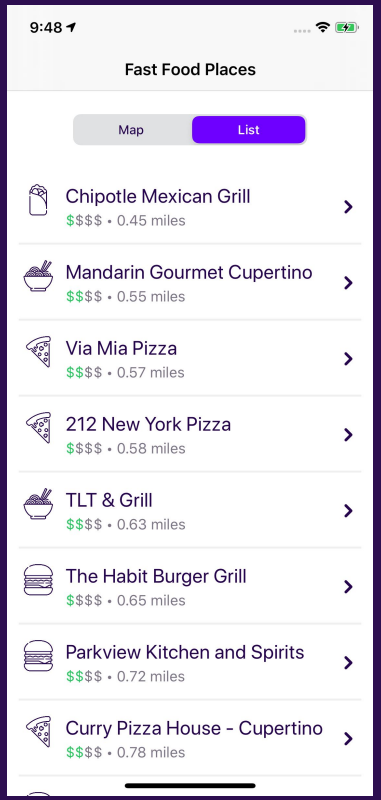
# LOADING SCREEN




During location retrieval and network request, you should show a medium-style loading indicator centered in the screen.

# HOME SCREEN

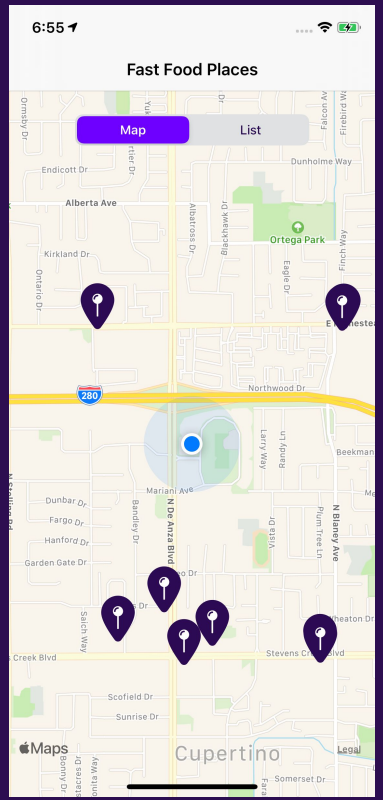



Once fast food places are fetched, you should show a Home screen which consists of two subscreens: Map and List. Segment control is used to switch between view modes. Last selected mode should be persisted between app launches (map is default).

**Segmented control style:**
Background color: *london sky*
Selected indicator color: *competition purple*
Default text color: *deep indigo*
Selected text color: *white*
Top margin: *24 points*
*Horizontally centered*

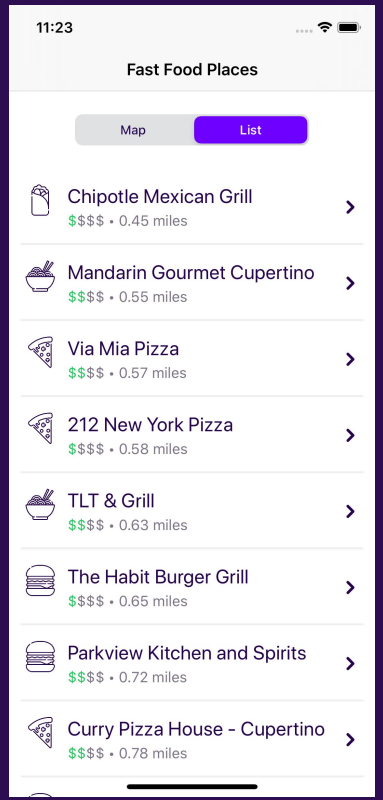
# MAP VIEW SCREEN




**Map style:**
All map controls should be hidden
Initial span in meters: *1000*
Initial center: *user location or default location provided*

**Map pin view style:**
Icon image name: *"pin"*
On tap: *medium intensity device feedback (vibration)*
Pins are not draggable and do not show callouts

# LIST VIEW SCREEN




**List item style:**
Item height: *dynamic*
Content padding: *16 points*
Highlight color: *powder blue*
Separator color: *london sky*
Separator height: *2 points*
Separator horizontal margins: *12 points*
Icon size: *32x32 points*
Icon default color: *deep indigo*
Title font and color: *title3, deep indigo*
Info font and color: *subheadline, lilac grey*
Info dollar color: *pickle green*
Spacing between labels: *6 points*
Spacing between labels and icon: *12 points*
Arrow indicator color: *deep indigo*
Arrow vertical position: *centered*

# DETAILS SCREEN

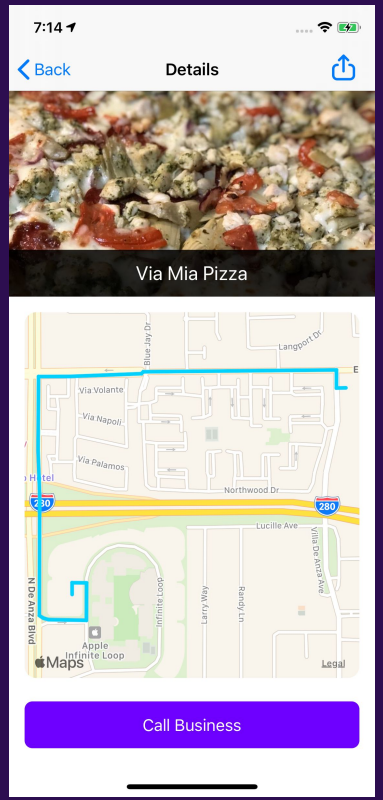



**Image style:**
Aspect ratio: *16:9* Background color: *london sky*

**Name label style:**
Background color: *black, 0.85 alpha* Font and color: *title3, white*
Margins: *horizontal - 16 points, vertical - 12 points*

**Map style:**
Corner radius: *12 points* Directions line color and width: *blu cepheus, 4 points*
Map should show driving directions from user's location to place location using MapKit API (Documentation)

**Button style:**
Height: *48 points* Corner radius: *6 points* Background color: *competition purple* Title color: *white*

**Share button style:**
Image name: *"share"*
Should open default iOS Share sheet with business's Yelp page URL

**Spacing:**
Map's left, top, right margins: *16 points* Map and button spacing: *24 points*
Button's left, bottom, right margins: *16 points*

# EXTRA CREDIT TASKS

1. Add a cross dissolve transition when switching between Map and List views **without** using *UIView.transition* methods

2. (For iOS Ninjas) Color icons in places list view based on provided gradient colors (in *Colors.swift* file, colors are in top to bottom order).

   Imagine a static vertical line colored with evenly distributed gradient colors having the same height as the list view screen. Based on icon's center Y-axis position in the list, it will take a color on the gradient line, which should be dynamically applied during scrolling. If icon's center Y coordinate is in between two adjacent provided colors, icon's color should be a result of linear interpolated between those colors.
   **(see included example video for reference)**

# GOOD LUCK!