

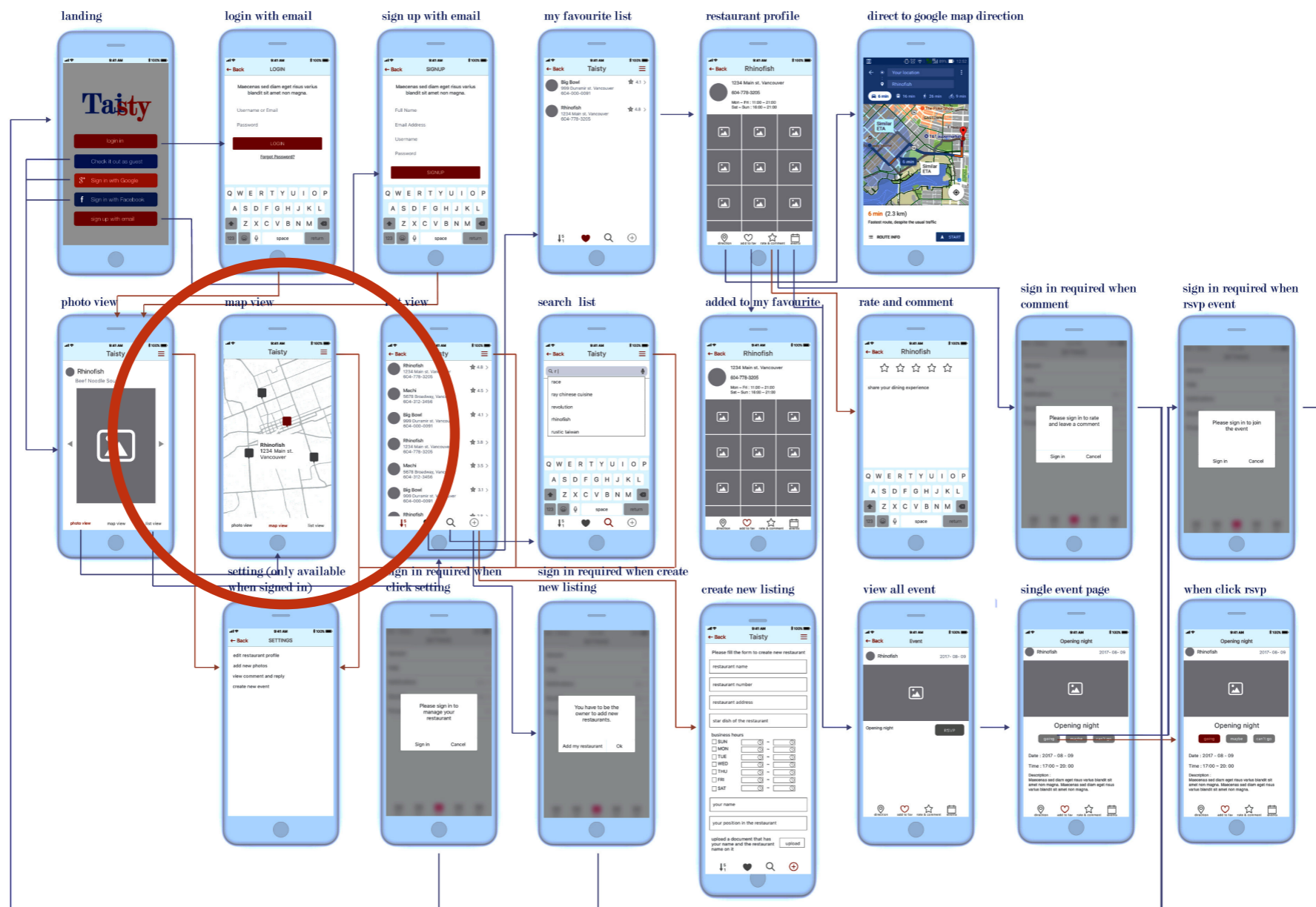


Tasty

My MVP?

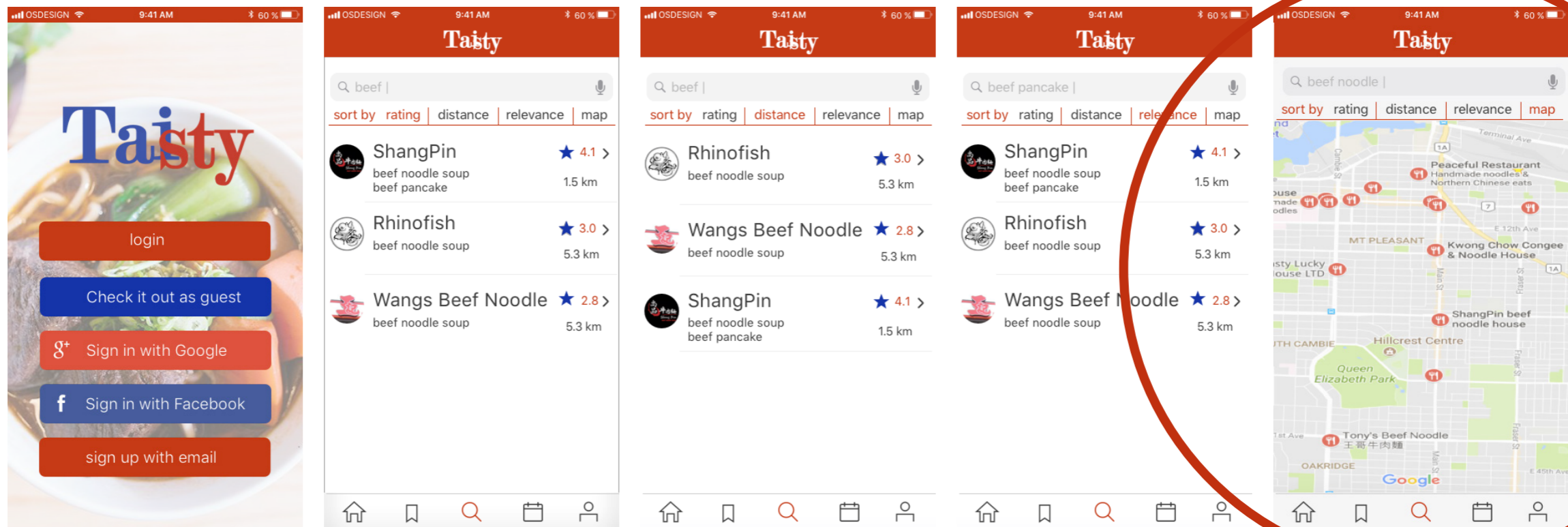
✓ Search for Taiwanese restaurants

wireframe



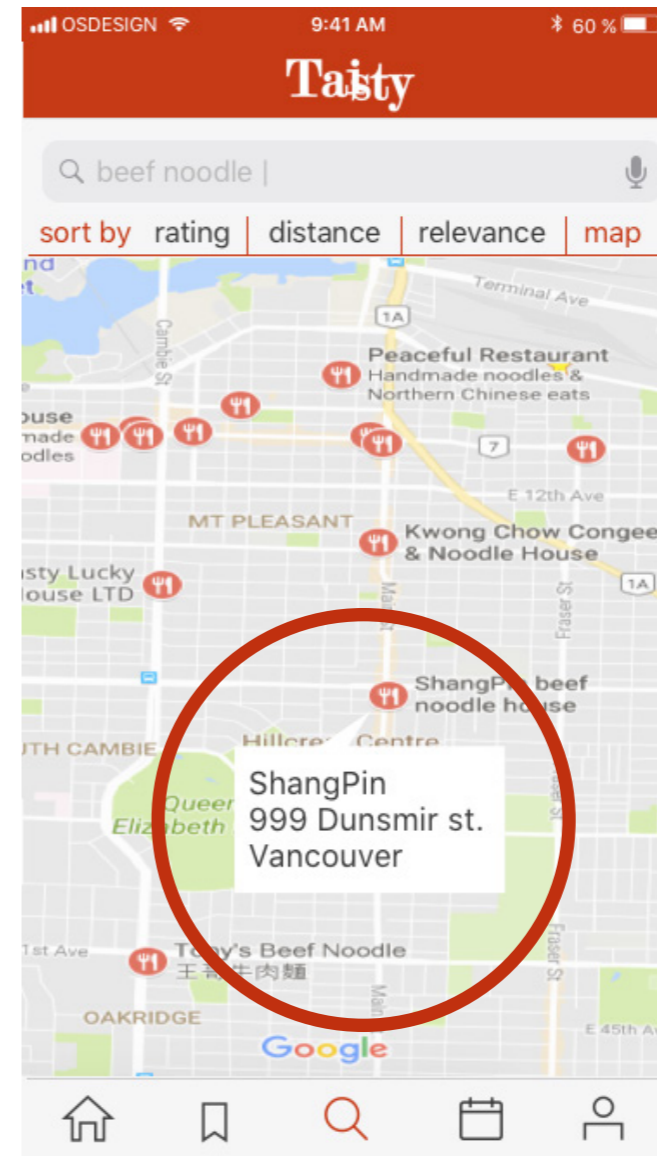
Search by?

✓ From user testing, people are more interested in searching restaurants nearby on map.



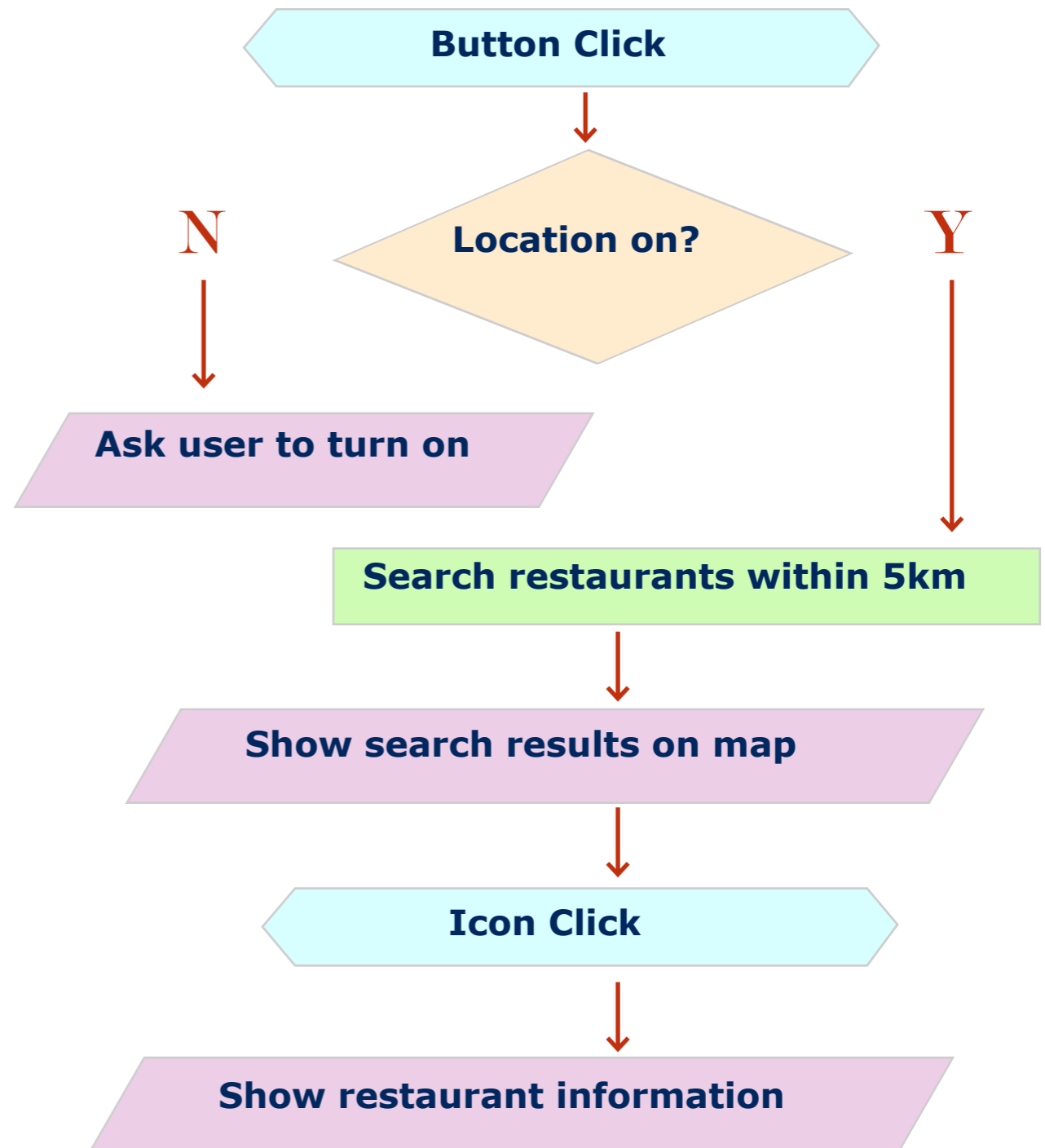
Any other feature?

- ✓ When tapping on restaurant marker, info box shows



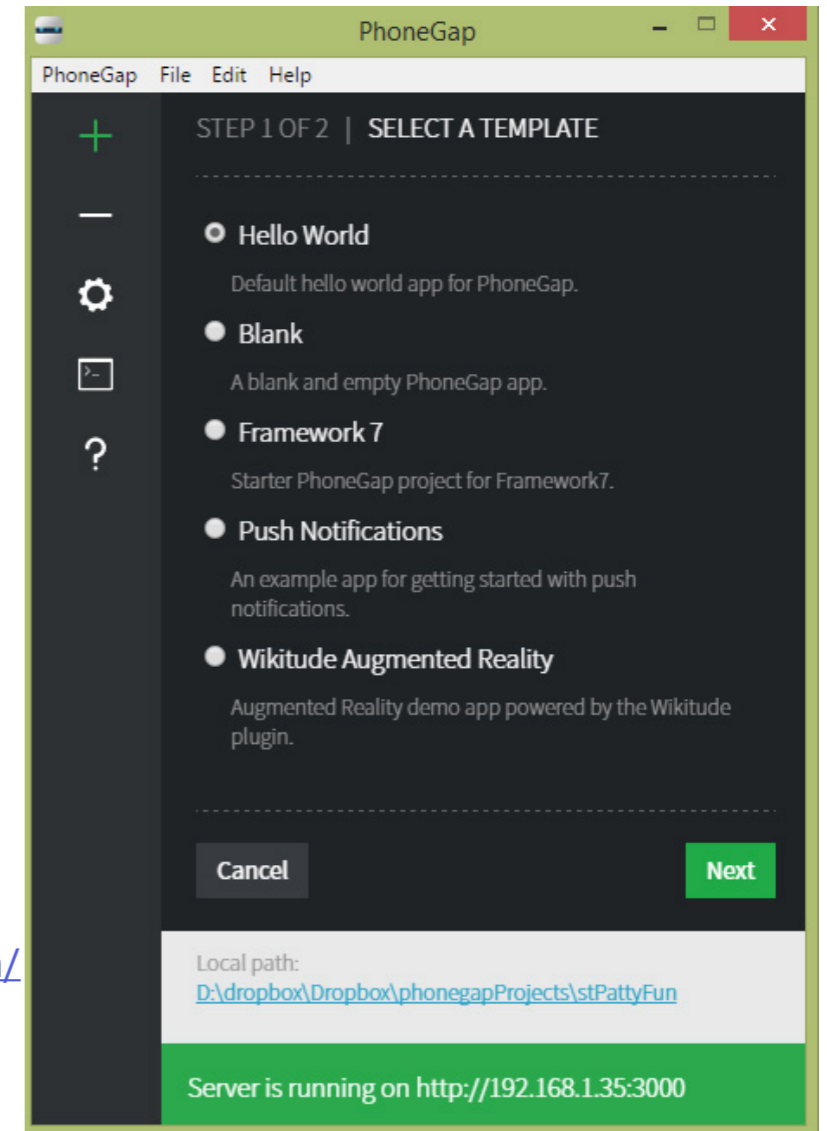
Script

1. Button click - **USER**
2. Check if location on - **COMPUTER**
3. Search restaurants within 5 km range in database - **COMPUTER**
4. Show search results on google map - **COMPUTER**
5. Restaurant icon click - **USER**
6. Show restaurant information pop-up box- **COMPUTER**



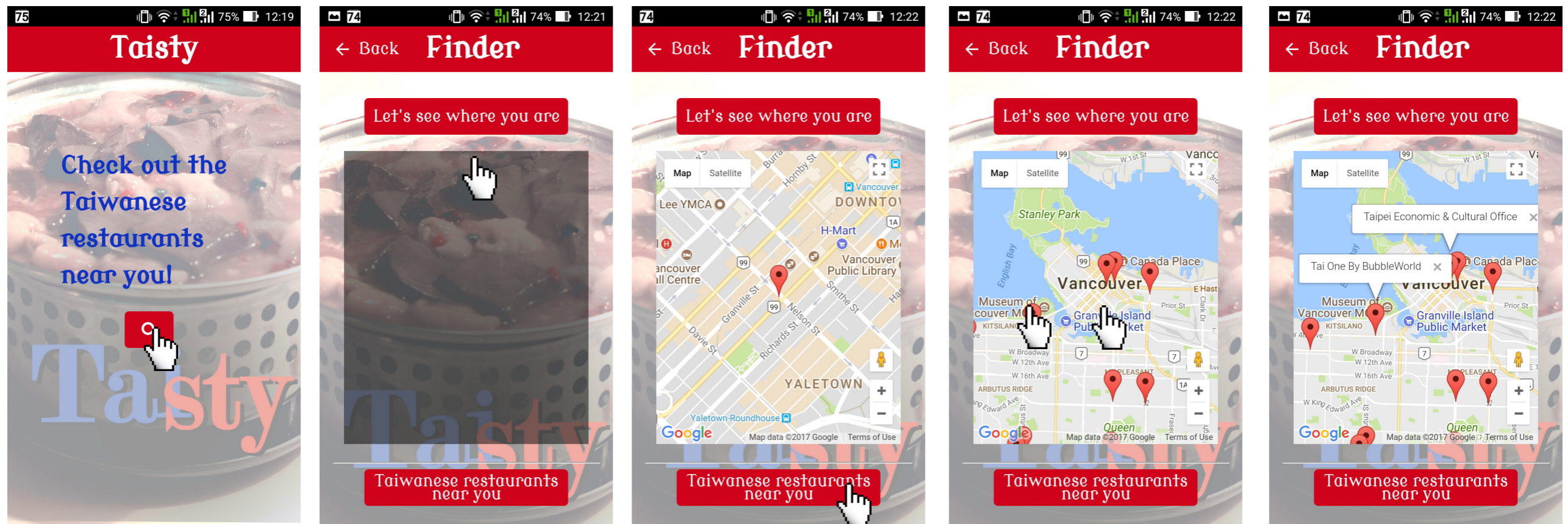
First trial

- ✓ Create a new phonegap projects with framework7
- ✓ Embedded Google maps web API's JavaScript API to make use of google map
<https://developers.google.com/maps/documentation/javascript/tutorial>
- ✓ Install cordova-plugin-geolocation to get the user's location
<https://cordova.apache.org/docs/en/latest/reference/cordova-plugin-geolocation/>
- ✓ Use Places Library of Google Maps JavaScript API to perform text search for "taiwanese"
<https://developers.google.com/maps/documentation/javascript/places#TextSearchRequests>



First trial result

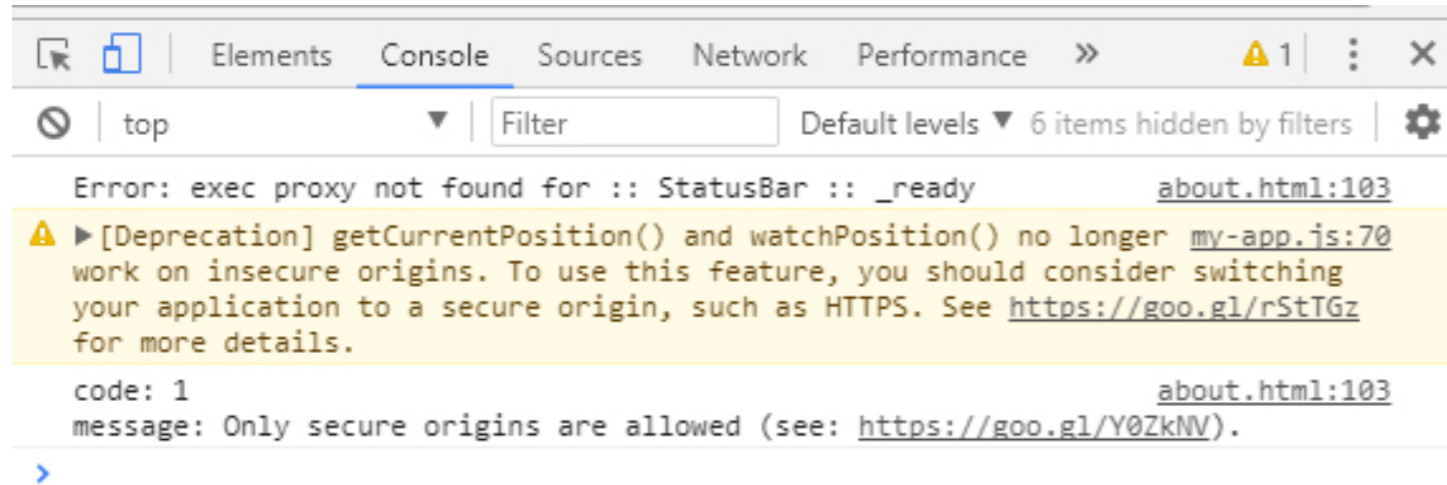
- ✓ When testing on phonegap Desktop in browser, need to change ip address to `http://localhost:3000/` for map API to work



1. Button click
2. Check if location on ???
3. Search restaurants within 5 km range in database ???
4. Show search results on google map
5. Restaurant icon click
6. Show restaurant information pop-up box

First trial issues

- ✓ When testing on phonegap Desktop in browser with the server ip address, the error will show in console



The screenshot shows a browser's developer console with the following content:

```
Error: exec proxy not found for :: StatusBar :: _ready about.html:103  
[Deprecation] getCurrentPosition() and watchPosition() no longer work on insecure origins. To use this feature, you should consider switching your application to a secure origin, such as HTTPS. See https://goo.gl/rStTGz for more details.  
code: 1 about.html:103  
message: Only secure origins are allowed (see: https://goo.gl/Y0ZkNV).
```

<https://developers.google.com/web/updates/2016/04/geolocation-on-secure-contexts-only>

- ✓ Beginning in Android 6.0 (API level 23), users grant permissions to apps while the app is running, not when they install the app

<https://developer.android.com/training/permissions/requesting.html>

- ✓ The Google Map Places Library with text search for "taiwanese" doesn't seem like a good source of database

First trial issues

- ✓ The radius setting of Google Map Places Library doesn't seem useful either. Locations further than 5000meters still show markers on the map.

```
var request = {  
  
  location: latLong,  
  radius: '5000',  
  query: 'Taiwanese'  
  
};
```

- ✓ What kind of framework is easier to use and more flexible for customizing?

Second trial

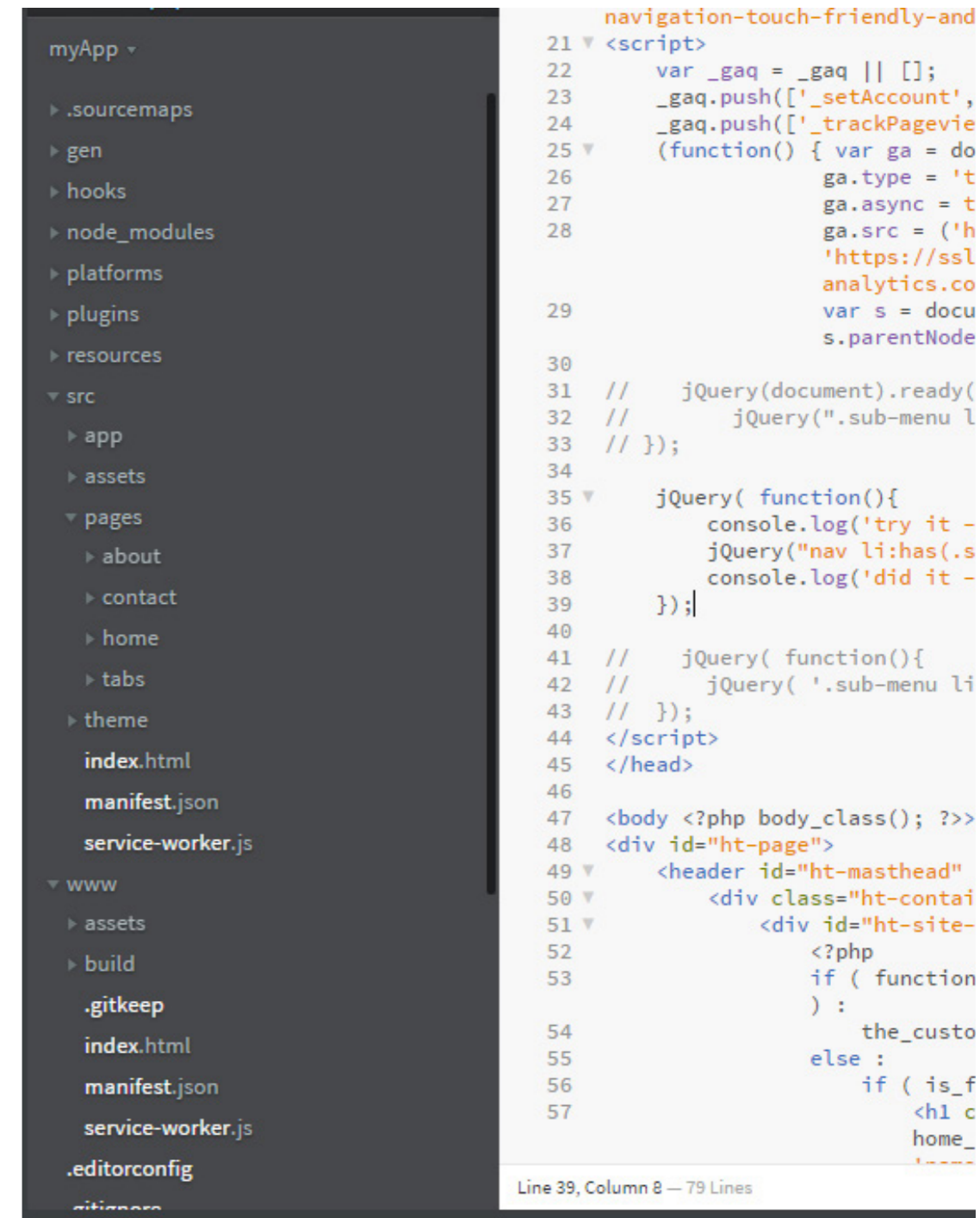
✓ Create a new projects with ionic framework

- Different file structure
- Using some typescript (.ts) in addition to javascript
- Ionic can automatically generate perfectly sized icons and splash screens from source images for your Cordova platforms

\$ ionic cordova resources [<platform>]

✓ Google maps JavaScript API

✓ cordova-plugin-geolocation

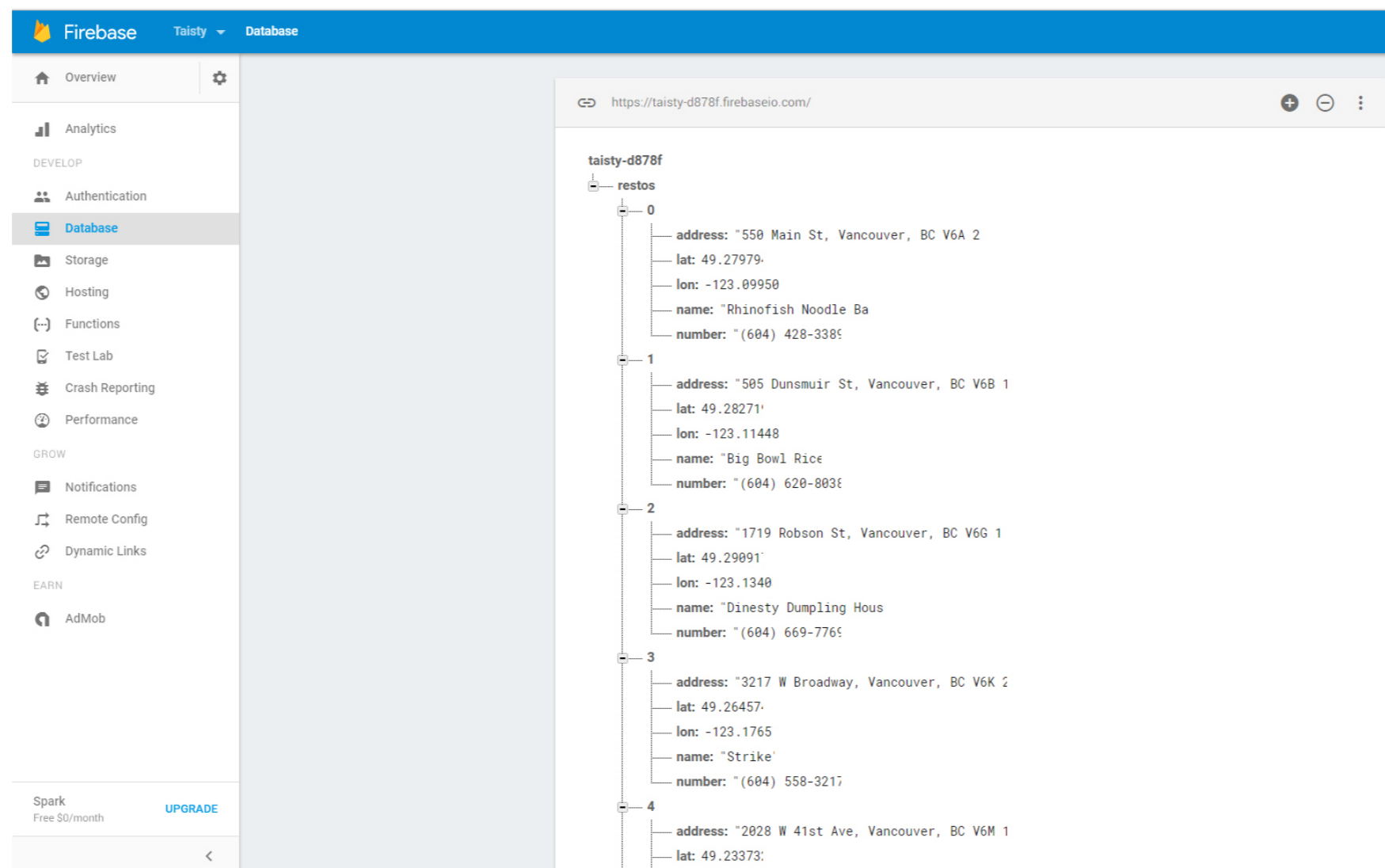


```
myApp ▾
  ▸ .sourcemaps
  ▸ gen
  ▸ hooks
  ▸ node_modules
  ▸ platforms
  ▸ plugins
  ▸ resources
  ▾ src
    ▸ app
    ▸ assets
    ▾ pages
      ▸ about
      ▸ contact
      ▸ home
      ▸ tabs
    ▸ theme
    index.html
    manifest.json
    service-worker.js
  ▾ www
    ▸ assets
    ▸ build
    .gitkeep
    index.html
    manifest.json
    service-worker.js
    .editorconfig
    citizen.js

navigation-touch-friendly-and
21 ▾ <script>
22     var _gaq = _gaq || [];
23     _gaq.push(['_setAccount',
24     _gaq.push(['_trackPagevie
25 ▾     (function() { var ga = do
26         ga.type = 't
27         ga.async = t
28         ga.src = ('h
           'https://ssl
           analytics.co
29         var s = docu
           s.parentNode
30
31     //     jQuery(document).ready(
32     //     jQuery(".sub-menu l
33     // });
34
35 ▾     jQuery( function(){
36         console.log('try it -
37         jQuery("nav li:has(s
38         console.log('did it -
39     });|
40
41     //     jQuery( function(){
42     //     jQuery( '.sub-menu li
43     // });
44     </script>
45     </head>
46
47     <body <?php body_class(); ?>>
48     <div id="ht-page">
49 ▾     <header id="ht-masthead"
50 ▾         <div class="ht-contai
51 ▾             <div id="ht-site-
52                 <?php
53                 if ( function
54                     ) :
55                     the_custo
56                     else :
57                     if ( is_f
                       <h1 c
                           home_
                               <hr>
```

Second trial

- ✓ Create a restaurant list.json with their name, phone number, address, latitude and longitude
- ✓ Upload .json to firebase, import into script ,and retrieve the data from firebase



Second trial

- ✓ When testing the app for the first few run, a firebase connection error kept occurring.

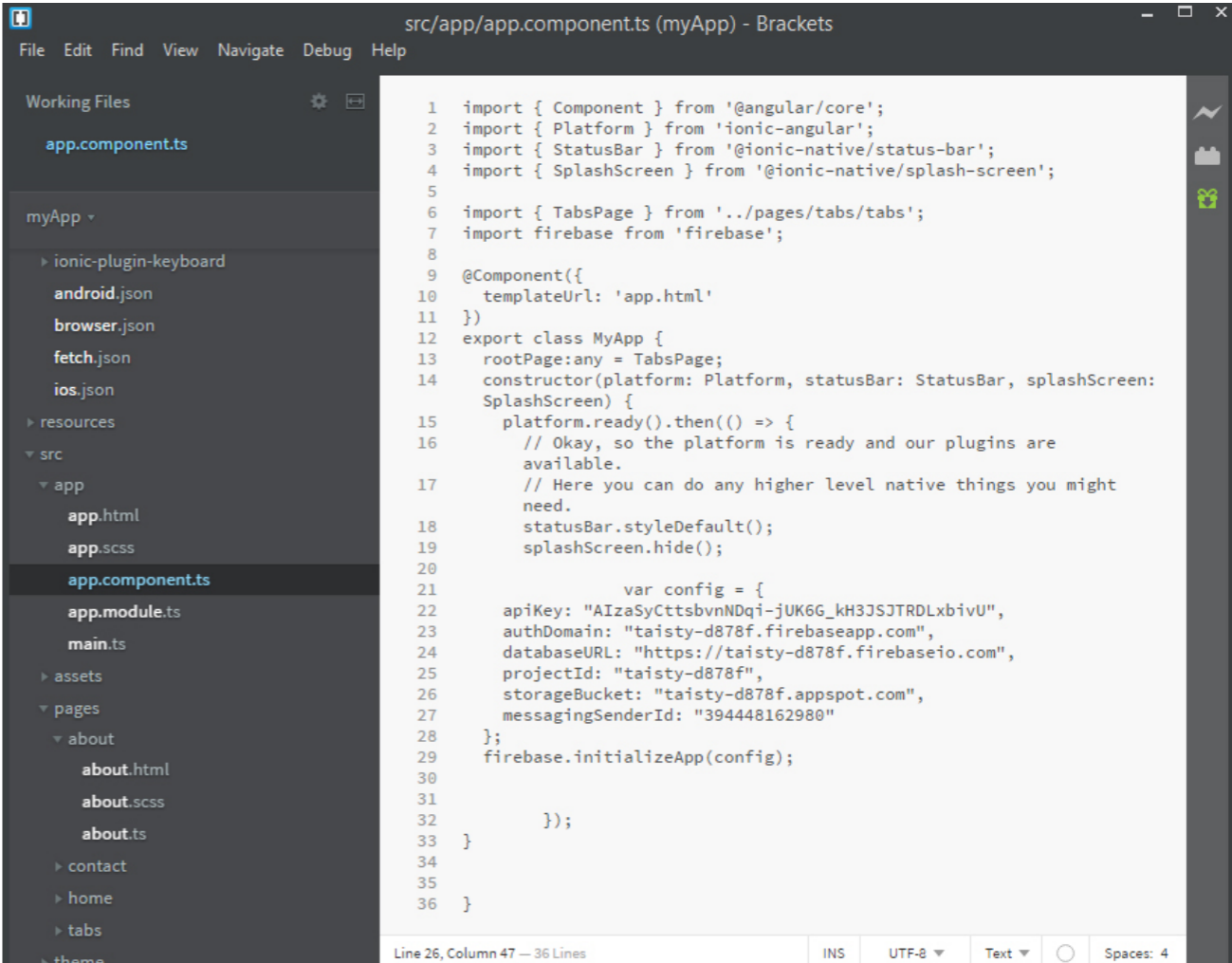
'cannot find name "firebase"'

--> Beside pasting the initializing snippet to script, I have to install firebase SDK

`$ npm install --save firebase`

<https://javebratt.com/ionic-firebase-setup/>

--> Also move the initializing snippet to `src/app/app.component.ts` instead of putting in `index.html` or `pages/about/about.ts` (the page where I'd like to call firebase)



The screenshot shows the Brackets IDE interface. The left sidebar displays the file explorer with the following structure:

- Working Files
 - app.component.ts
- myApp
 - ionic-plugin-keyboard
 - android.json
 - browser.json
 - fetch.json
 - ios.json
 - resources
 - src
 - app
 - app.html
 - app.scss
 - app.component.ts
 - app.module.ts
 - main.ts
 - assets
 - pages
 - about
 - about.html
 - about.scss
 - about.ts
 - contact
 - home
 - tabs
 - theme

The main editor displays the content of `src/app/app.component.ts`:

```
1 import { Component } from '@angular/core';
2 import { Platform } from 'ionic-angular';
3 import { StatusBar } from '@ionic-native/status-bar';
4 import { SplashScreen } from '@ionic-native/splash-screen';
5
6 import { TabsPage } from '../pages/tabs/tabs';
7 import firebase from 'firebase';
8
9 @Component({
10   templateUrl: 'app.html'
11 })
12 export class MyApp {
13   rootPage:any = TabsPage;
14   constructor(platform: Platform, statusBar: StatusBar, splashScreen:
15     SplashScreen) {
16     platform.ready().then(() => {
17       // Okay, so the platform is ready and our plugins are
18       // available.
19       // Here you can do any higher level native things you might
20       // need.
21       statusBar.styleDefault();
22       splashScreen.hide();
23
24       var config = {
25         apiKey: "AIzaSyCttsbvnNDqi-jUK6G_kh3JSJTRDLxbivU",
26         authDomain: "taisty-d878f.firebaseio.com",
27         databaseURL: "https://taisty-d878f.firebaseio.com",
28         projectId: "taisty-d878f",
29         storageBucket: "taisty-d878f.appspot.com",
30         messagingSenderId: "394448162980"
31       };
32       firebase.initializeApp(config);
33     });
34   }
35 }
36 }
```

The status bar at the bottom indicates: Line 26, Column 47 — 36 Lines, INS, UTF-8, Text, Spaces: 4.

Second trial

✓ In order to make image show both on browser and mobile devices

```

```

instead of (image only showing when testing on browser)

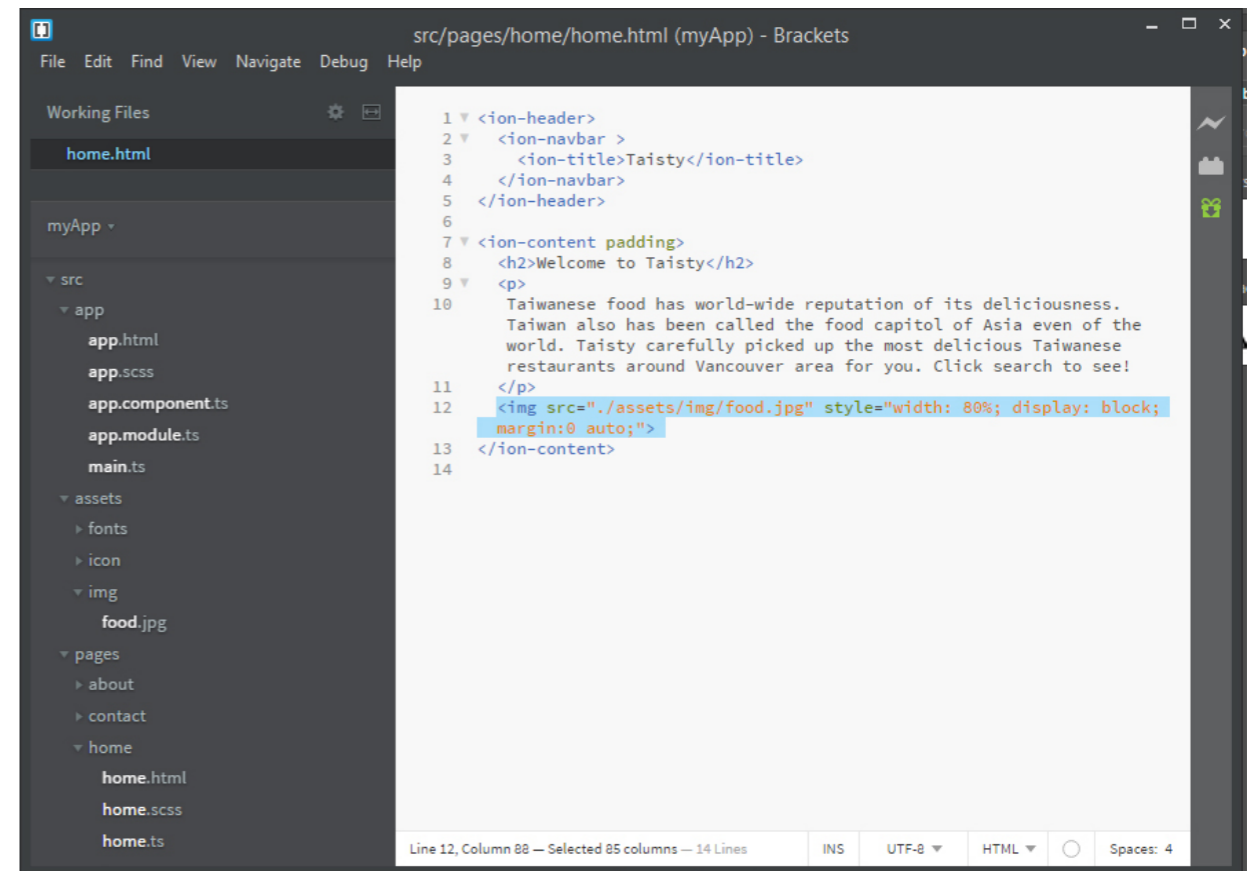
```

```

or (image only showing when testing on mobile devices)

```

```

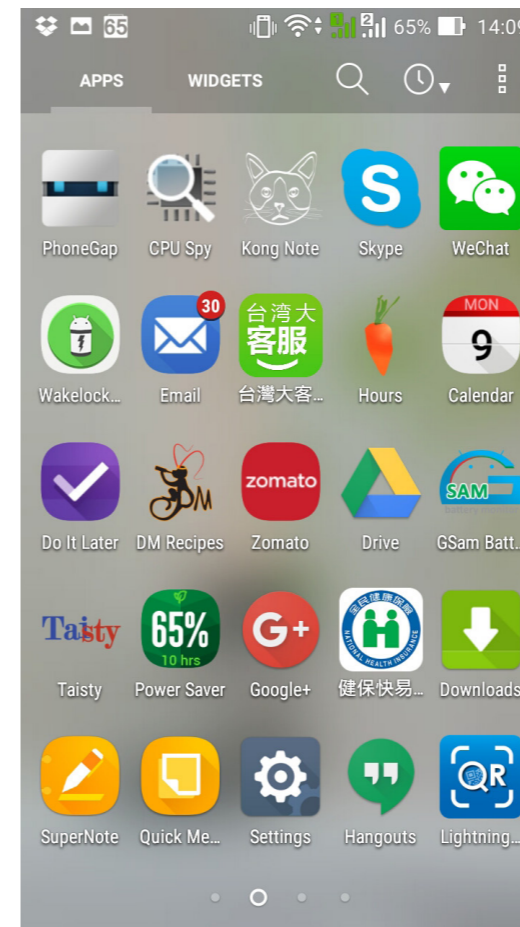


```
src/pages/home/home.html (myApp) - Brackets
File Edit Find View Navigate Debug Help
Working Files
home.html
myApp
  src
    app
      app.html
      app.scss
      app.component.ts
      app.module.ts
      main.ts
    assets
      fonts
      icon
      img
        food.jpg
    pages
      about
      contact
      home
        home.html
        home.scss
        home.ts
```

```
1 <ion-header>
2 <ion-navbar >
3   <ion-title>Taisty</ion-title>
4 </ion-navbar>
5 </ion-header>
6
7 <ion-content padding>
8   <h2>Welcome to Taisty</h2>
9   <p>
10    Taiwanese food has world-wide reputation of its deliciousness.
11    Taiwan also has been called the food capital of Asia even of the
12    world. Taisty carefully picked up the most delicious Taiwanese
13    restaurants around Vancouver area for you. Click search to see!
14  </p>
15  
17 </ion-content>
```

Line 12, Column 88 — Selected 85 columns — 14 Lines | INS | UTF-8 | HTML | Spaces: 4

Second trial result

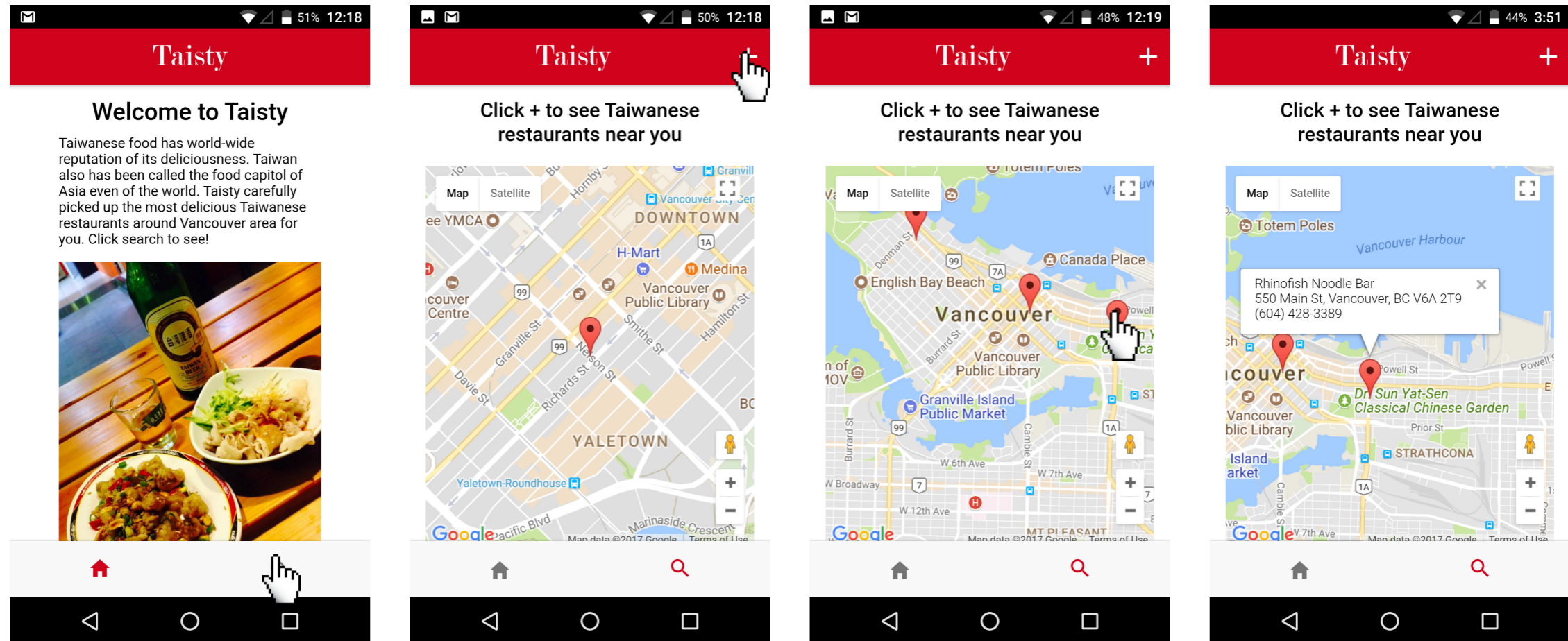


✓ Splash and icon

The source image for icons should ideally be at least 1024×1024px and located at resources/icon.png. The source image for splash screens should ideally be at least 2732×2732px and located at resources/splash.png

<https://ionicframework.com/docs/cli/cordova/resources/>

Second trial result



- ✓ More app-like look with the tabs at the bottom
- ✓ Change google map zoom value from `getCurrentLocation(15)` to drop the multiple markers(13) to approximately showing the results within 5 km
- ✓ Map will autocenter when clicking on the markers

Second trial issues

- ✓ How to compile files through phonegap build with ionic framework?

```
$ ionic cordova build android
```

```
$ ionic cordova run android
```

.apk file will be generated inside platforms/android/build/outputs/apk/

- ✓ Google map not showing on some of the android devices
Android version issue?
Tried to target old version (android 5.0) with following code in config.xml

```
<platform name="android">  
  <preference name="android-minSdkVersion" value="21" />  
  <preference name="android-targetSdkVersion" value="21" />  
</platform>
```

No luck yet

Tai *sty*

THANK YOU