

WEB AND UX DESIGN

DATA VISUALISATION

SUMMATIVE ASSESSMENT

DOCUMENTATION

PRESENTED BY:
DUKE APELINGA

INTRODUCTION

ON MY WAY is a group collaborative project created by Jesse Walsh, Duke Apelinga and Jordan Paese. This project uses Google API to create a place finder app that provide information specifically on accommodations, parks and restaurants.

OBJECTIVES

Client: City Council – create a place finder app

The app should be able to:

- View destination
- Learn more about destination
- Have the option to go to that destination's website
- Search destination by category
- Find the way to the destination from their current location on a mobile device
- Visualise destination based on the number of Instagram posts or Twitter mentions

TECHNICAL REQUIREMENTS

- Github – contains every code and materials of the project (Github, n.d.)
- Asana – contains daily work diary of the group (Asana, n.d.)
- Slack – use to communicate with the members of the group (Slack, n.d.)
- Google API – use to have access on google map (Google Maps APIs, n.d.)
- Grunt – use to compile CSS/SASS and CSS Linting (GruntJS, n.d.)
- jQuery – use to write condense javascript (jQuery, n.d.)
- UXPin – use to create prototypes (UXPin, n.d.)
- Font Awesome – use for the icons that's in the project (Font Awesome, n.d.)
- Google Fonts – use to customise the typeface of the project (Google Fonts, n.d.)

Bibliography:

Asana. (n.d.). Move work forward. Retrieved from Asana: <https://asana.com/>

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Github. (n.d.). Built for developers. Retrieved from Github: <https://github.com/>

Google Fonts. (n.d.). Retrieved from Google Fonts: <https://fonts.google.com/>

Google Maps APIs. (n.d.). Build the next generation of location experiences. Retrieved from Google Maps APIs: <https://developers.google.com/maps/>

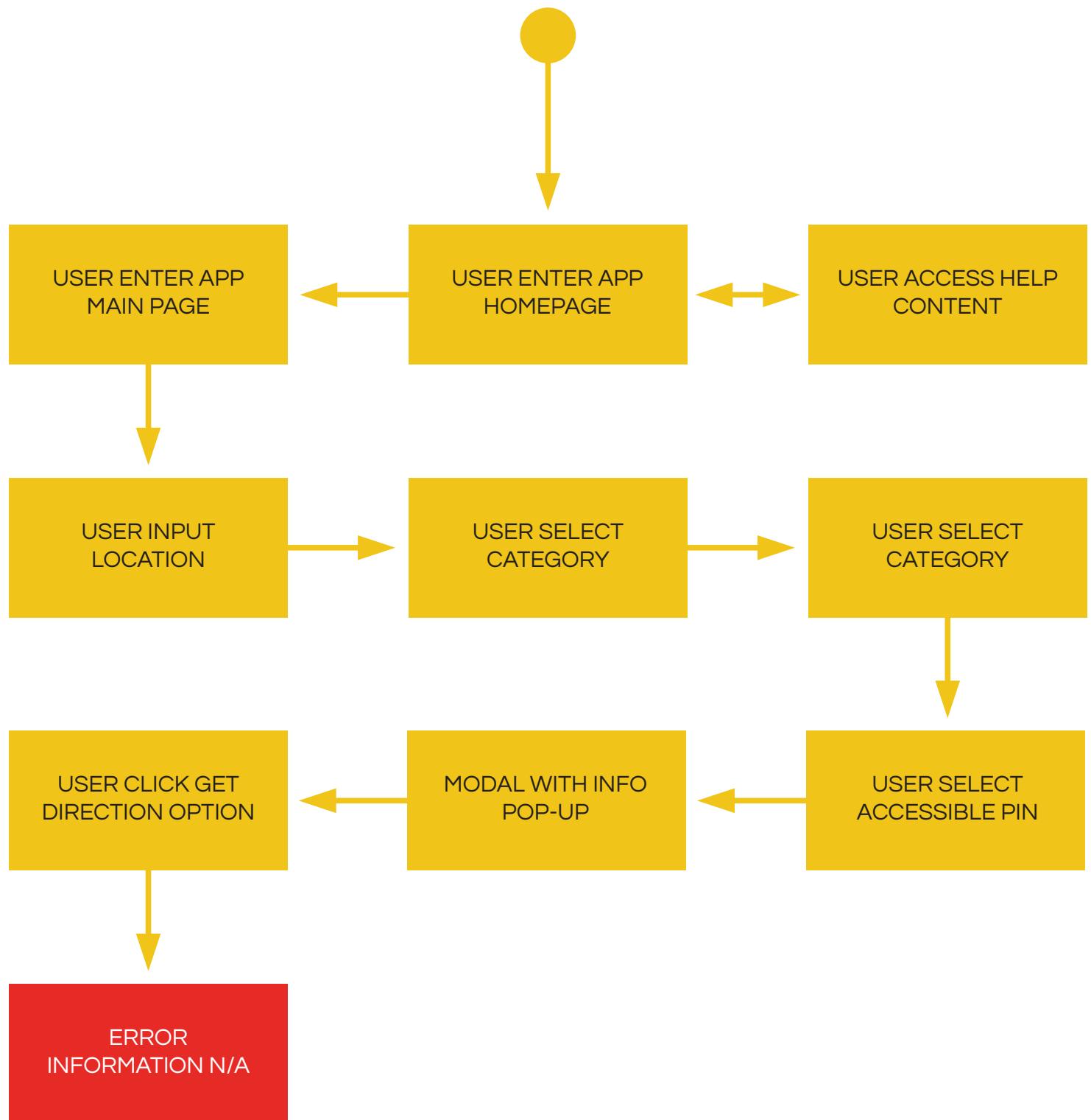
GruntJS. (n.d.). Grunt The Javascript Task Runner. Retrieved from Grunt The Javascript Task Runner: <https://gruntjs.com/>

jQuery. (n.d.). jQuery write less, do more. Retrieved from jQuery: <https://jquery.com/>

Slack. (n.d.). Where Work Happens. Retrieved from Slack: <https://slack.com/>

UXPin. (n.d.). The Full-Stack UX Design Platform . Retrieved from UXPin: <https://www.uxpin.com/>

UML: FLOW CHART



WORK BREAKDOWN STRUCTURE

Group Member:

- Jesse Walsh - Team Leader | Javascript
- Jordan Paese - Javascript
- Duke Apelinga - HTML | SASS/CSS

In this project I was in charge of the UI aspect of the project:

- Wireframe
- Prototype
- HTML
- SASS/CSS
- UI Interaction JS

- I was not able to fully participate on the Google API JS coding because I was pre-occupied with the SASS/CSS but when I finished my tasks I tried to help out as much as I can possible.

GANTT CHART:

TASKS	WEEK ONE					WEEK TWO					WEEK THREE										
	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
Analysing The Brief, Dividing Work Load																					
Research																					
Wireframe, First Prototype, User Testing																					
Second Prototype																					
Started HTML, SASS/CSS																					
UI Interaction JS																					
Documentation																					

Project Started	
Presentation Day	
Hand-In Day	

JAVASCRIPT STYLE GUIDE

Naming conventions:

All names start with a letter.

camelCase is used for names when required.

Avoid single letter names, be descriptive with naming.

Spaces around operators:

Always put spaces around operators and after commas (e.g. var x = y + z;).

Code Indentation:

Tabs will be used for indenting.

Statement Rules:

Always end a simple statement with a semicolon (e.g. var values = [1, 2, 4, 6];).

Complex statements do not end with semicolon and closing bracket is on a new line

Objects:

Opening bracket on the same line as object name.

Use quotes around string values.

No comma after the last property.

Closing bracket on a new line.

End object with a semicolon.

Strings:

Use single quotes for strings (e.g. var name = 'John').

BEST PRACTICES

All members coding their sub projects should only be coding within their project files to avoid constant conflict during commits.

To avoid conflicts every member has been assigned a number to differentiate class and id names for css styling, the number will be added to every name created at the end. Unless certain IDs are required in order for pages to link.

Each member must not work on the master branch, therefore they must work on their own separate branches.

The best practices we are following, will be the Yoobee School of Design Web Best Practices guidelines, mainly focusing on the Client Side Best Practices section.

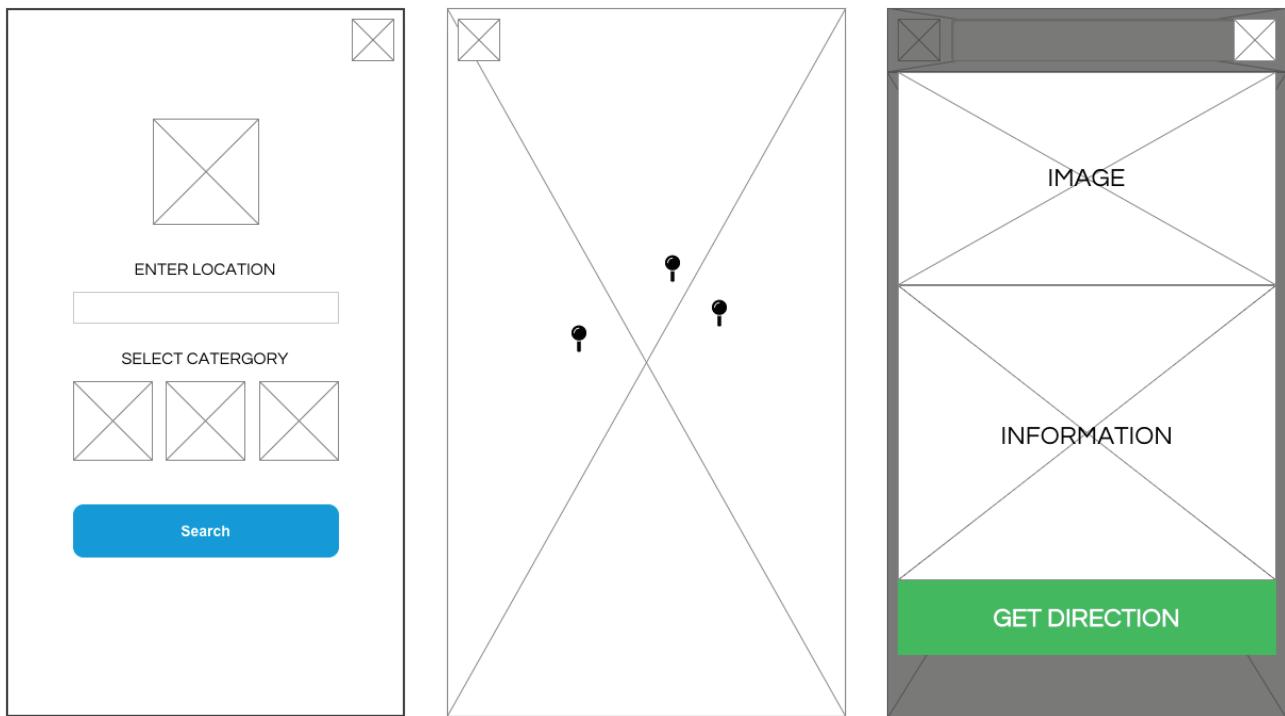
CODING: HTML | SASS/CSS | JS

```

11 <link href="https://fonts.googleapis.com/css?family=Questrial" rel="stylesheet">
12 <!-- font awesome cdn -->
13 <script defer src="https://use.fontawesome.com/releases/v5.0.8/js/all.js"></script>
14 </head>
15 </body>
16
17 <div id="wrapper">
18   <!-- homepage -->
19   <div id="homepage">
20     
21     <div id="intCont">
22       <div id="helpButton">
23         <i class="fas fa-question"></i>
24       </div>
25       <div class="tapCont">
26         <h1 class="tap">Tap to Start</h1>
27       </div>
28     </div>
29   </div>
30   <!-- help content -->
31   <div id="helpContainer">
32     <div id="helpContent">
33       <h2>ABOUT US</h2>
34       <p>ON MY WAY is a way finding and location informative app that specifically focuses on Accommodations, Parks and Restaurants in New Zealand.</p>
35       <h2>HOW TO USE</h2>
36       <p>1. Enter a location.</p>
37       <p>2. Select a category.</p>
38       <p>3. Tap pin to show information.</p>
39       <p>4. Tap 'Get Direction' to access guide.</p>
40     </div>
41   </div>
42   <!-- form -->
43   <div id="formContent">
44     <div class="form">
45       <div id="searchContainer">
46         <form id="APIform">
47           <input class="" id="formInput" name="ac" type="text" size="40">
48         </form>
49       </div>
50
51       position: relative;
52       font-family: 'Questrial', sans-serif;
53
54       #photoPlaceholder {
55         height: 104px;
56         width: 217px;
57         background-image: url(../img/placeLoc.jpg);
58         margin: 0;
59     }
60
61     #homepage {
62       position: absolute;
63       height:100%;
64       width:100%;
65       z-index: 1;
66       top: 0;
67       background-color: #f1c40f;
68       text-align: center;
69
70       img {
71         width: 375px;
72         height: 667px;
73     }
74
75     #homepage.hide {
76       opacity: 0;
77       height: 100%;
78       width: 100px;
79       transition: all .75s ease;
80     }
81
82     #intCont {
83       width: 375px;
84       height: 667px;
85       position: absolute;
86       z-index: 2;
87       top: 0;
88
89     #helpButton {
90       width: 40px;
91       height: 40px;
92       border-radius: 10px;
93       background-color: #F1C40F;
94       margin: 10px 10px 10px 325px;
95       display: flex;
96       align-items: center;
97       border: solid 2px white;
98
99     var apikey = "AizaSyCyqmhkhc3lnKfw7etsUkJ4Poa0m5o";
100
101 // landing map
102 var map = new google.maps.Map(document.getElementById('map'), {
103   center: startLocation,
104   zoom: 5
105 });
106
107 // assigning to radios
108 var acc = $('#checkbox-type-logging')[0];
109 var parks = $('#checkbox-type-park')[0];
110 var rest = $('#checkbox-type-restaurant')[0];
111
112 // gray elements from dom
113 var infoWindowContent = $('#infoWindow-content')[0];
114
115 // google infowindow
116 var infoWindow = new google.maps.InfoWindow();
117
118 // init google auto complete
119 var autocomplete = new google.maps.places.Autocomplete(input);
120
121 // set auto complete for only NZ values
122 autocomplete.setComponentRestrictions({country: ['nz']});
123
124 // move map to where auto complete value is
125 autocomplete.bindTo('bounds', map);
126
127 var marker = new google.maps.Marker({
128   map: map,
129   anchorPoint: new google.maps.Point(0, -29)
130 });
131
132 // hides the homepage
133 $('#tapCont').on('click', function() {
134   $('#homepage').hide('slide');
135 });
136
137 // opens the info content
138 $('#infoWindowContent').on('click', function() {
139
140   // info window content for dropdown
141
142   #infoWindow-content {
143     display: none;
144   }
145
146   #optionContainer {
147     width: 375px;
148     height: 101.5px;
149     background-color: #F1C40F;
150     text-align: center;
151     display: flex;
152     align-items: center;
153
154     label {
155       margin: 15px;
156
157     .iconContainer {
158       width: 55px;
159       height: 55px;
160       background-color: #878787;
161       border-radius: 10px;
162       display: flex;
163       align-items: center;
164
165     .fa-bed {
166       width: 40px;
167       height: 40px;
168       color: #FFF;
169     }
170
171     .fa-tree {
172       width: 40px;
173       height: 40px;
174       color: #FFF;
175     }
176
177     .fa-utensils {
178       width: 40px;
179       height: 40px;
180       color: #FFF;
181     }
182
183     label > input { /* HIDE RADIO */
184       visibility: hidden; /* Makes input not-clickable */
185
186     event listener for info window in main location screen
187     marker.addEventListener('click', function(){
188
189       var address = '';
190
191       if (place.address_components) {
192         address = '';
193         place.address_components.forEach(function(item) {
194           address += item.name + ' ';
195         });
196
197         infoWindowContent.children['place-icon'].src = place.icon;
198         infoWindowContent.children['place-name'].textContent = place.name;
199         infoWindowContent.children['place-address'].textContent = address;
200         infoWindow.open(map, marker);
201       }
202
203       var myLat = place.geometry.location.lat();
204       var myLong = place.geometry.location.lng();
205       var latLang = [lat: myLat, lng: myLong];
206       var service = new google.maps.places.PlacesService(map);
207
208       // radio value selection + icons
209       $input[type="radio").click(function () {
210         var placesNearByQuery = "https://maps.googleapis.com/maps/api/place/textsearch/xml?query=" + this.value + '&center=' + place.name + '&key=' + apikey
211
212         service.nearbySearch({
213           location: latLang,
214           radius: 1000,
215           type: this.value
216         }, callback);
217
218         map = new google.maps.Map(document.getElementById('map'), {
219           center: latLang,
220           zoom: 15,
221           disableDefaultUI: false
222         });
223       });
224     });
225   });
226
227   // creates options for dropdown
228
229   #options {
230     width: 375px;
231     height: 101.5px;
232     background-color: #F1C40F;
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711
712       var myLat = place.geometry.location.lat();
713       var myLong = place.geometry.location.lng();
714       var latLang = [lat: myLat, lng: myLong];
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718       $input[type="radio").click(function () {
719         var placesNearByQuery = "https://maps.googleapis.com/maps/api/place/textsearch/xml?query=" + this.value + '&center=' + place.name + '&key=' + apikey
720
721         service.nearbySearch({
722           location: latLang,
723           radius: 1000,
724           type: this.value
725         }, callback);
726
727         map = new google.maps.Map(document.getElementById('map'), {
728           center: latLang,
729           zoom: 15,
730           disableDefaultUI: false
731         });
732       });
733     });
734
735   });
736
737   // creates options for dropdown
738
739   #options {
740     width: 375px;
741     height: 101.5px;
742     background-color: #F1C40F;
743     text-align: center;
744     display: flex;
745     align-items: center;
746
747     label {
748       margin: 15px;
749
750     .iconContainer {
751       width: 55px;
752       height: 55px;
753       background-color: #878787;
754       border-radius: 10px;
755       display: flex;
756       align-items: center;
757
758     .fa-bed {
759       width: 40px;
760       height: 40px;
761       color: #FFF;
762     }
763
764     .fa-tree {
765       width: 40px;
766       height: 40px;
767       color: #FFF;
768     }
769
770     .fa-utensils {
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779     event listener for info window in main location screen
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790         infoWindowContent.children['place-icon'].src = place.icon;
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1104     .fa-tree {
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1201     label > input { /* HIDE RADIO */
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1220       }
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1230
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1233           radius: 1000,
1234           type: this.value
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1245   });
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1267
1268     .fa-bed {
1269       width: 40px;
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1272
```

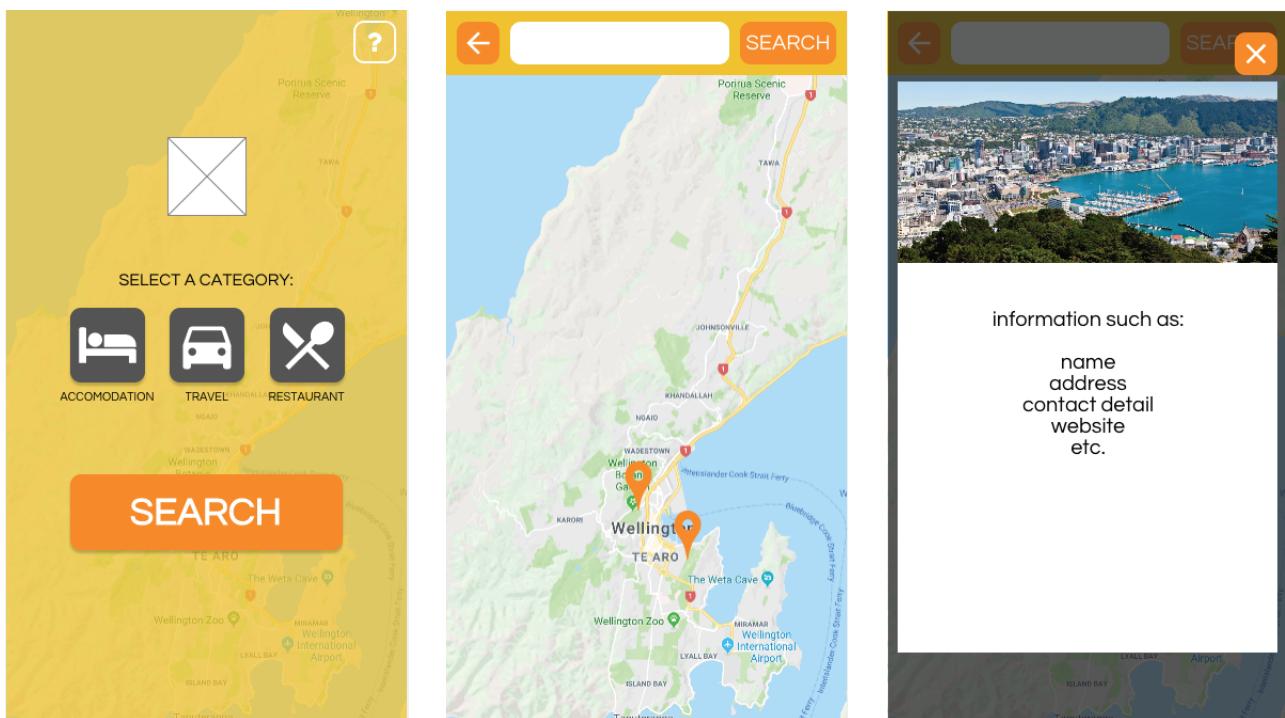
WIREFRAME

Available to view on UXPin: <https://preview.uxpin.com/f11b46ae29f7b03b510687451308a710dd637f46#/pages//simulate/no-panels>



FIRST PROTOTYPE & USER TESTING FEEDBACKS

Available to view on UXPin: <https://preview.uxpin.com/9857b6a400eb045398a50c45dfb24b8d3a36cb27#/pages//simulate/no-panels>



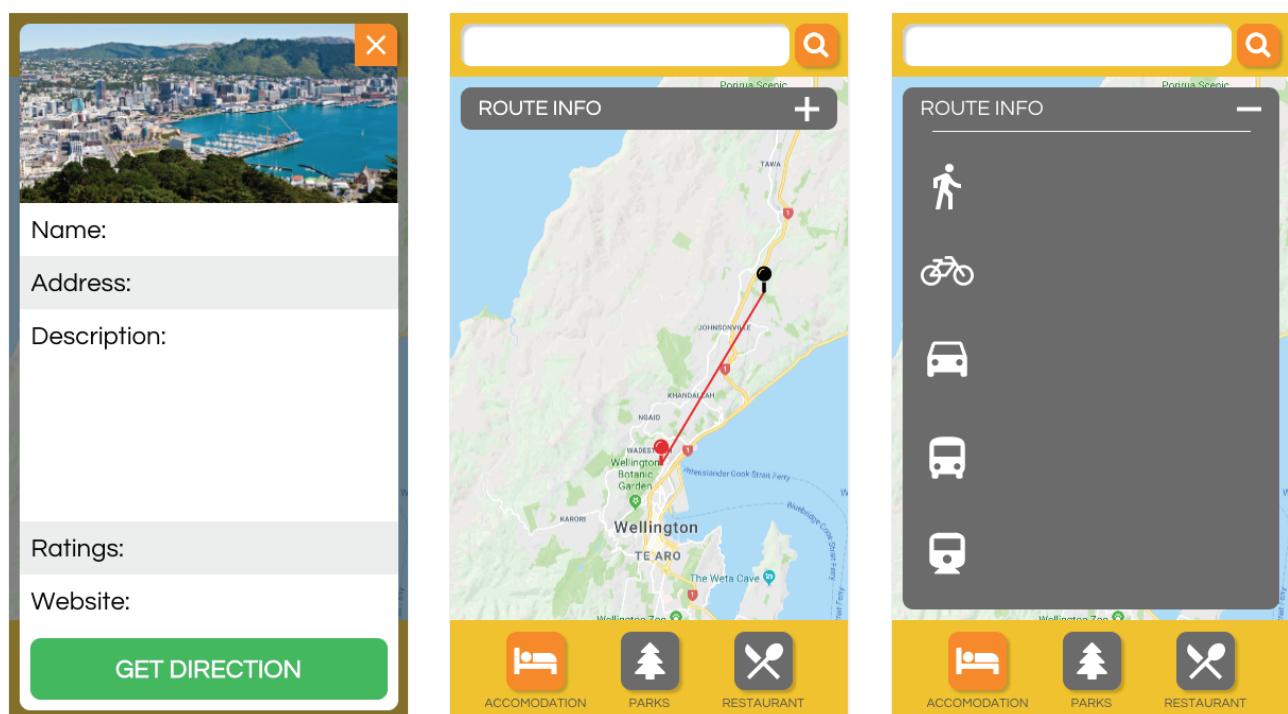
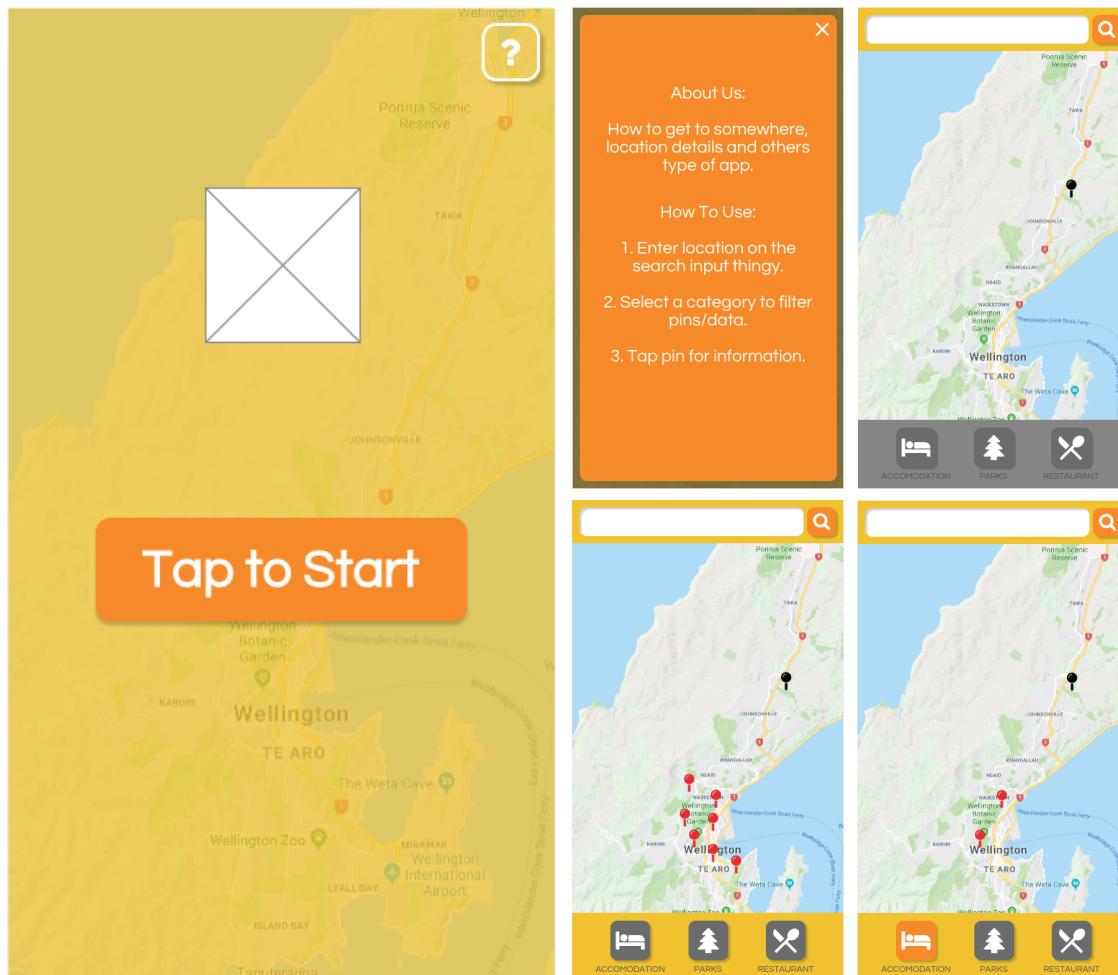
FIRST PROTOTYPE & USER TESTING FEEDBACKS

Available to view on UXPin: <https://preview.ux-pin.com/9857b6a400eb045398a50c45dfb24b8d3a36cb27#/pages//simulate/no-panels>

Comments	<input checked="" type="checkbox"/> Current page only	Comments	<input checked="" type="checkbox"/> Current page only
<input type="text"/> Search in comments		<input type="text"/> Search in comments	
<p>Something, something 13 days ago • </p>		<p>• Team comment ▾ Notify: Proj... ▾</p> <p> lisapearson0619@g... maybe have a div displaying results? 13 days ago • </p>	
<p>• Team comment ▾ Notify: Proj... ▾</p> <p> louis.kelly@live.com: could this perhaps be closer / next to the input field? 13 days ago • </p>		<p>• Team comment ▾ Notify: Proj... ▾</p> <p> lisapearson0619@g... Nice modal design. 13 days ago • </p>	
<p>• Team comment ▾ Notify: Proj... ▾</p> <p> cameronshaw95@g... does this mean im searching for a car in wellington? 13 days ago • </p>		<p>• Team comment ▾ Notify: Proj... ▾</p> <p> jordan paese: Maybe a navbar on the bottom, keep things minimal but not too plain. And a search bar so you don't have to go back to previous page. 12 days ago • </p>	
<p>• Team comment ▾ Notify: Proj... ▾</p> <p> flo.lo1994@gmail.co... I would like to know what the app is about, or what am I searching for. 13 days ago • </p>		<p>• Team comment ▾ Notify: Proj... ▾</p> <p> jordan paese: Maybe could include custom icons using this pin with a smaller icons showing the catagories. 12 days ago • </p>	
<p>• Team comment ▾ Notify: Proj... ▾</p> <p> flo.lo1994@gmail.co... Bright colours are really nice! 13 days ago • </p>		<p>• Team comment ▾ Notify: Proj... ▾</p> <p> Forrest Wilson-Jenni... Adding custom markers would make this pop 12 days ago • </p>	
<p>• Team comment ▾ Notify: Proj... ▾</p> <p> flo.lo1994@gmail.co... easy to understand icons</p>			

SECOND PROTOTYPE

Available to view on UXPin: <https://preview.uxpin.com/769e1bda98-fadf494f1a7b59141d28c095c95d51#/pages//simulate/no-panels>



LOGO CONCEPT DESIGN | COLOUR SCHEME | FONT



Questrial

Glyph

Qq

Characters

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z a b c d e f g h i j k l
m n o p q r s t u v w x y z 1 2 3 4 5 6 7 8 9 0 ' " ! " (%) [#] { @ } / & \ < - +
÷ × = > @ © \$ € £ ¥ ¢ ; , . *

Styles

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Regular

40px — ●

#F0C419

#F68C1F

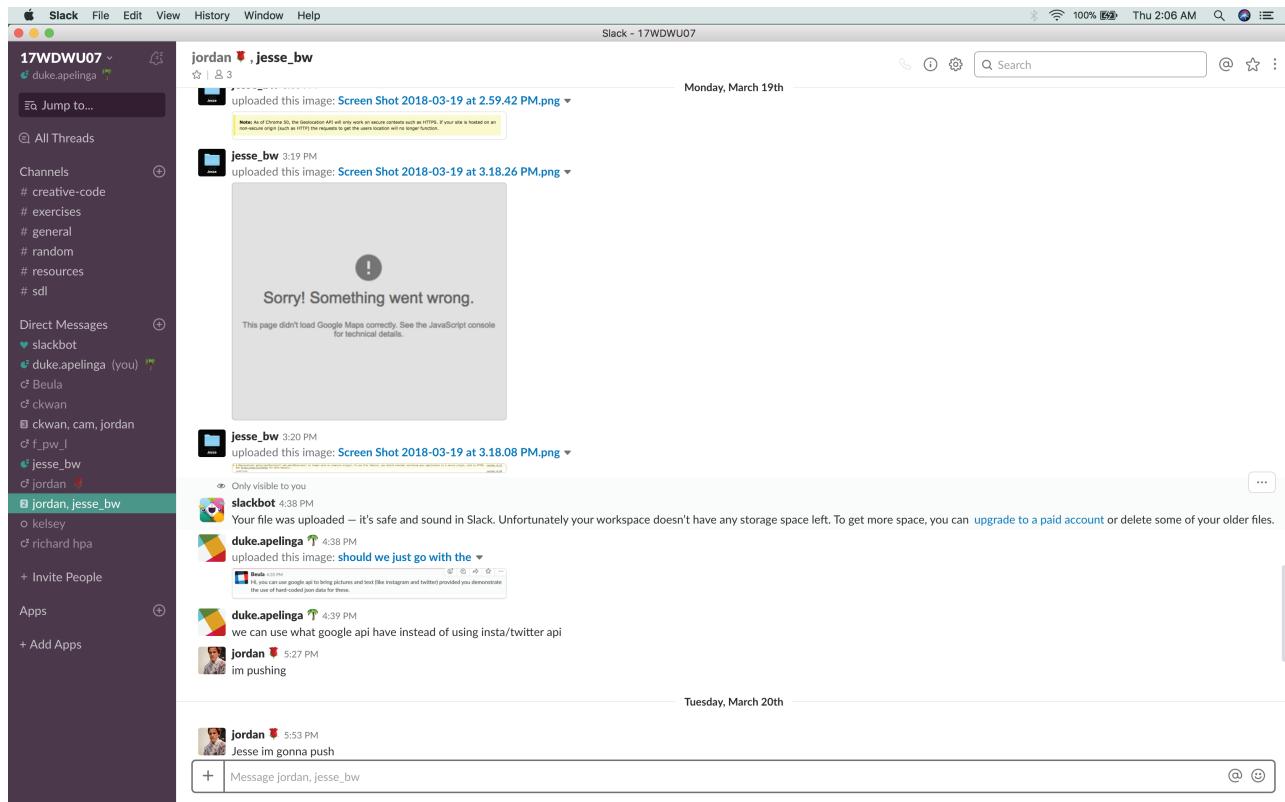
#FFFFFF

AGILE

As a group we collaborated in a agile environment. We had daily meetings and helped each other as much as our current ability can when a member is stuck on the task they're working on. The overall communication between members of the group is very good.

We used Slack to communicate with each other especially when notifying if a member's going to be away and also very helpful when pushing/updating the master repo on Github.

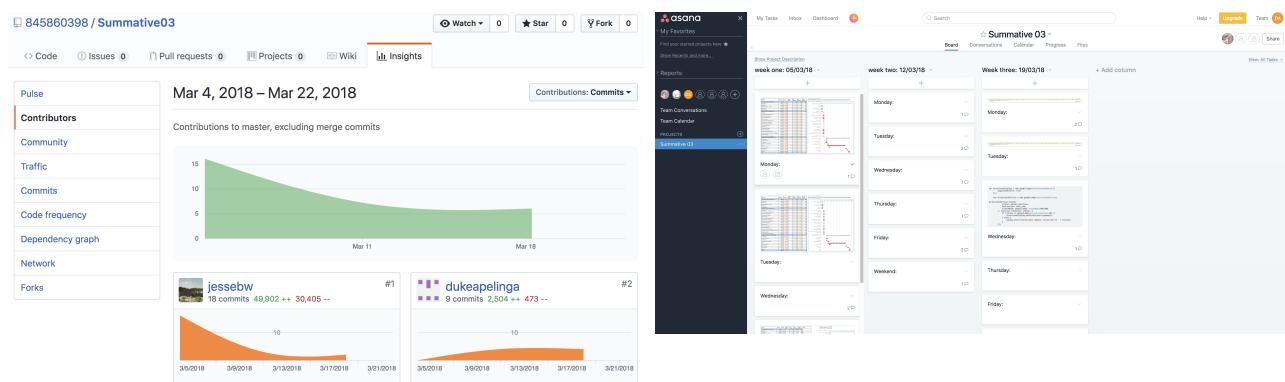
Slack: <https://17wdwu07.slack.com/messages/G9B4ZTGKF/files/F9R92790Q/>



The screenshot shows a Slack workspace named '17WDWU07'. In the left sidebar, there are channels like '# creative-code', '# exercises', '# general', '# random', '# resources', and '# sdl'. Direct messages are shown for slackbot, duke.apelinga (you), Beula, ckwan, jordan, f_pw_, jesse_bw, and jordan_jesse_bw. A message from jesse_bw at 3:19 PM shows a file attachment named 'Screen Shot 2018-03-19 at 2.59.42 PM.png'. This attachment is a screenshot of a web page with a large error message: 'Sorry! Something went wrong.' Below the message, it says 'This page didn't load Google Maps correctly. See the JavaScript console for technical details.' Other messages in the thread include a reply from jesse_bw at 3:20 PM, a message from slackbot at 4:38 PM, a message from duke.apelinga at 4:38 PM, a message from duke.apelinga at 4:39 PM, and a message from jordan at 5:27 PM. The timestamp for the messages is Monday, March 19th. On Tuesday, March 20th, jordan sends a message at 5:53 PM: 'Jesse im gonna push'.

We used Github to store our project where all members can have an access to and we also used Asana as a diary blog just to keep everything organise throughout the project ie. inputing things that a member have manage to progress or working on.

Github Repo: <https://github.com/845860398/Summative03>
Asana: <https://app.asana.com/0/582246336475192/board3>



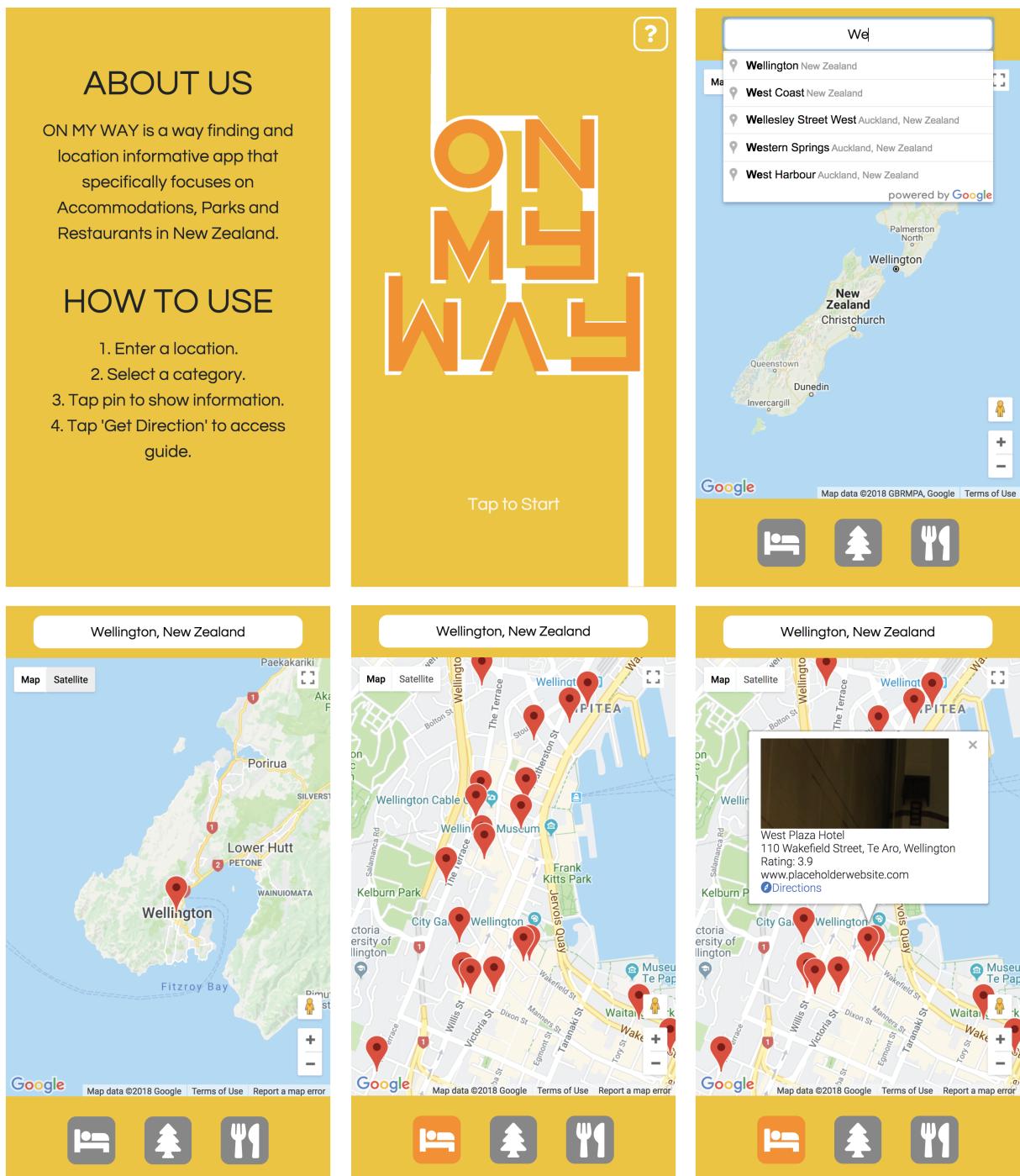
The screenshot shows the Github repository '845860398 / Summative03'. The left sidebar has sections for Pulse, Contributors, Community, Traffic, Commits, Code frequency, Dependency graph, Network, and Forks. The main area shows a chart for 'Contributions to master, excluding merge commits' from Mar 4, 2018 – Mar 22, 2018. Two contributors are highlighted: jessebw (#1) with 18 commits and dukeapelinga (#2) with 9 commits. The Asana board titled 'Summative 03' is visible on the right, showing a three-week timeline from week one (05/03/18) to week three (19/03/18). The board has columns for 'Board', 'Conversations', 'Calendar', 'Progress', and 'Plan'. Tasks are listed for each day of the week, with some having due dates and descriptions.

FINAL APP

Github Repo: <https://github.com/845860398/Summative03>

Research References:

- Place Finder / Search Around Me:
 - <https://play.google.com/store/apps/details?id=com.search.aroundme.placefinder>
- Marlocks:
 - <https://www.maclocks.com>
- Nearby Place Finder:
 - <https://play.google.com/store/apps/details?id=com.bablabd.nearbyplace>



CONFLICT

The main problem was getting the json data and storing it in an array or usable form from the nearby places id. When making an ajax request or 'GET' request I could not fix this error:

Request to:

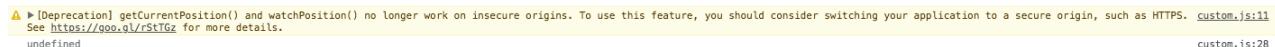
<https://maps.googleapis.com/maps/api/place/details/json?placeid=ChIJ5nTxtCvOG0RmpsVmIm5mn0&key=MYAPIKEYHERE>

Jesse was able to get the google data of the place with its marker specific ID. But after much stack overflow, conversing with my tutor and others, we could not find a solution within the assignment's time frame.

 Failed to load https://maps.googleapis.com/maps/api/place/details/json?placeid=ChIJ5nTxtCvOG0RmpsVmIm5mn0&key=AIzaSyCyqxMkhc3_ /Summative03/#:1 1hKFW7etsYUkj4poa0nSoo: No 'Access-Control-Allow-Origin' header is present on the requested resource. Origin 'http://192.168.33.10' is therefore not allowed access.

Another problem which held us up was the depreciation of google's allowance of non https request with geolocation. Because we are working on local servers and virtual machines we were getting this error:

Note: As of Chrome 50, the Geolocation API will only work on secure contexts such as HTTPS. If your site is hosted on an non-secure origin (such as HTTP) the requests to get the users location will no longer function.

 [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/StTGz for more details.

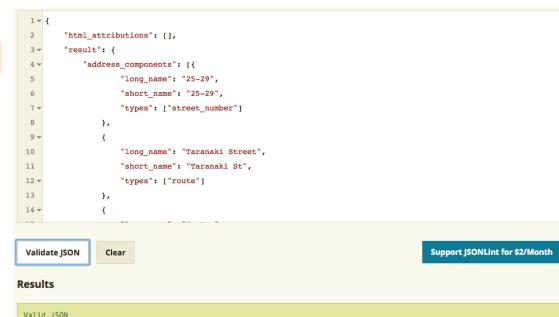
custom.js:11
custom.js:28

Again much stack overflow and google searches could not help us within this time frame. It was fairly disappointing to not be able to complete the project within the allotted time frame or have a solution however I believe given some more time we would find a work around for this problem.

This is an example of one of the requests which would not work even after validating the JSON Data:

```
function Data(){
    $.ajax({
        url: 'https://maps.googleapis.com/maps/api/place/details/json?placeid=' + place.place_id + '&key=' + apiKey,
        dataType: 'jsonp',
        success: function(dataNames){
            runNames(dataNames);
            console.log('im working');
        },
        error: function(error){
            console.log(error);
        }
    });
}
```

```
{
  "html_attributions": [],
  "result" : {
    "address_components" : [
      {
        "long_name" : "43",
        "short_name" : "43",
        "types" : [ "street_number" ]
      },
      {
        "long_name": "Taranaki Street",
        "short_name": "Taranaki St",
        "types": [ "route" ]
      },
      ...
    ],
    "formatted_address": "43 Taranaki Street, Wellington, Wellington Region, New Zealand"
  }
}
```

 1 ↴
 "html_attributions": [],
 2 ↴
 "result" : {
 3 ↴
 "address_components" : [
 4 ↴
 {
 5 ↴
 "long_name": "Taranaki Street",
 6 ↴
 "short_name": "Taranaki St",
 7 ↴
 "types": ["route"]
 8 ↴
 },
 9 ↴
 ...
 10 ↴
],
 11 ↴
 "formatted_address": "43 Taranaki Street, Wellington, Wellington Region, New Zealand"
 12 ↴
 13 ↴
 14 ↴

Validate JSON Clear Support JSONLint for \$2/Month

Results

Valid JSON

CONCLUSION

Majority of my time in this project was spent working on SASS/CSS because I'm confident in my skills when it comes to the UI aspect of the project. By the time I finished the UI the other members was far too ahead of me in API JS coding, I end up relying on them but helped out as much as I can with searching for solutions with the issues our project encountering.

In conclusion, this project was a lot to take on especially when I lack the knowledge and experience in using APIs in general but im confident that if we as a group had a little bit more time to process all informations we would've been able to complete the project, I think.