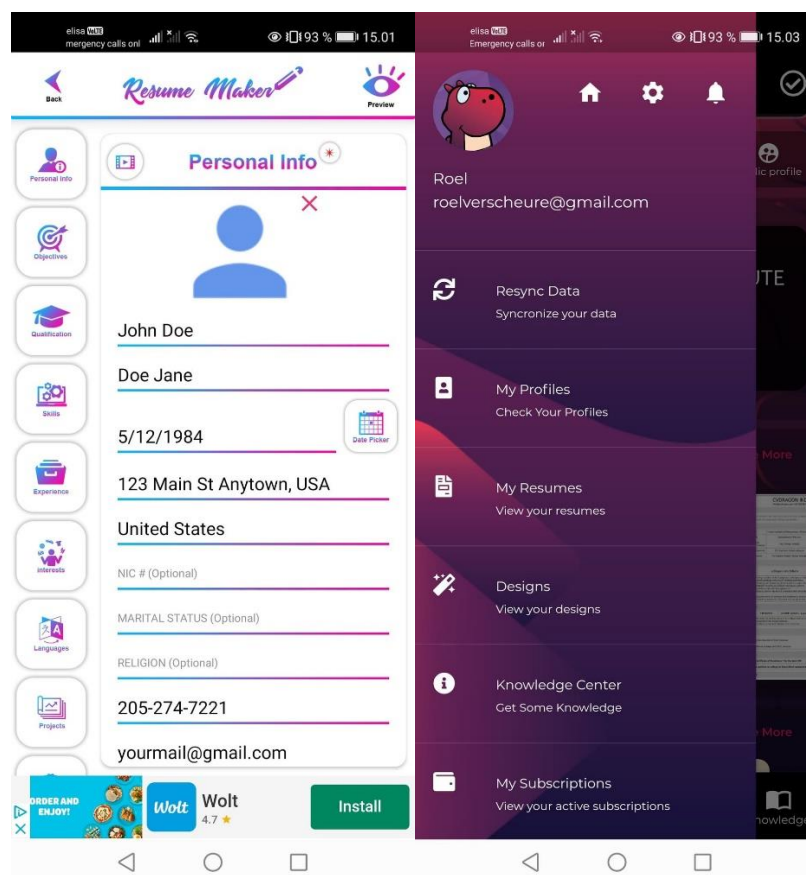


1 Benchmarking my app

I found it rather tricky to properly benchmark the app that we were supposed to make following the instructions since the mobile apps available were all pretty much different. While both my to be developed app and the mobile apps I went through handle CV and resumes, there is a big difference between an app that is your CV in the form of a mobile app and a mobile app that is there to create a CV (to publish as a PDF file). I still went through a couple of those CV maker apps and tried to note down a couple of elements that I liked and wanted to try and incorporate in my app.

In 2 of the apps I checked out, I really liked how they rather worked with a navigation sidebar. In the one resume maker they worked with a permanent visible sidebar to navigate between the different possible sections of your resume, while in the other they hid the navigation behind a hamburger menu to leave more room to share the info on the full screen. I like both approaches very much and intend to figure out which will work best for my own purposes. But especially making things visually linked with the content or categories seems like a great thing to pursue.



2 CV for web and mobile app designer & developer

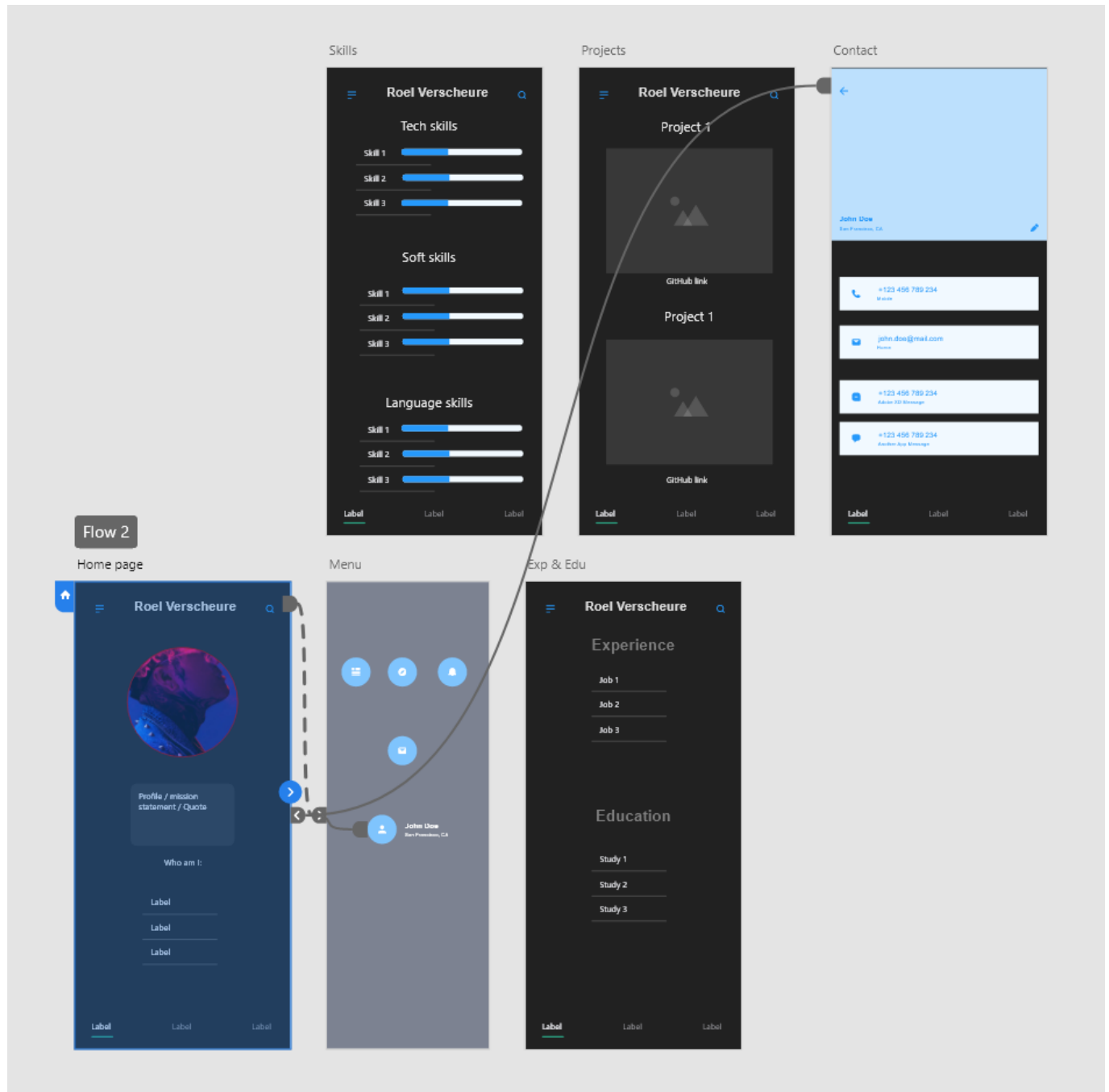
Since most job offers for mobile and software development have a strong focus on the technical skills involving developing an app or any piece of software, it's clearly important to clearly define your skills on that level. So I took my already established CV and added a section about my programming and development skill. I also added a link to my GitHub repository so possible employers can find projects I've been working on in the past. I also indicated that I try to stay up to date on the latest by completing classes on the Udacity platform.

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3 Wireframe/prototype

I worked out a wireframe/prototype through Adobe XD, which was an interesting learning experience since I hadn't used the platform before. A very interesting program that seems to have a lot of possibilities in the free option. I came to the following:



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4 Step-by-step development mobile app

First I set up a basic app through command and the Ionic platform that would enable me to work out my personal app:

```
ionic-lab
Microsoft Windows [Version 10.0.18362.356]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\Roel>cd C:\Users\Roel\CV-app
C:\Users\Roel\CV-app>ionic start --tabs

Every great app needs a name!

Please enter the full name of your app. You can change this at any time. To bypass this prompt next time, supply name,
the first argument to ionic start.

? Project name: CV app
Pick a framework!

Please select the JavaScript framework to use for your new app. To bypass this prompt next time, supply a value for the
--type option.

? Framework: Angular

Let's pick the perfect starter template!

Starter templates are ready-to-go Ionic apps that come packed with everything you need to build your app. To bypass this prompt next time, supply template, the second argument to ionic start.

? Starter template: tabs
Preparing directory .\cv-app - done!
Downloading and extracting tabs starter - done!
Installing dependencies may take several minutes.

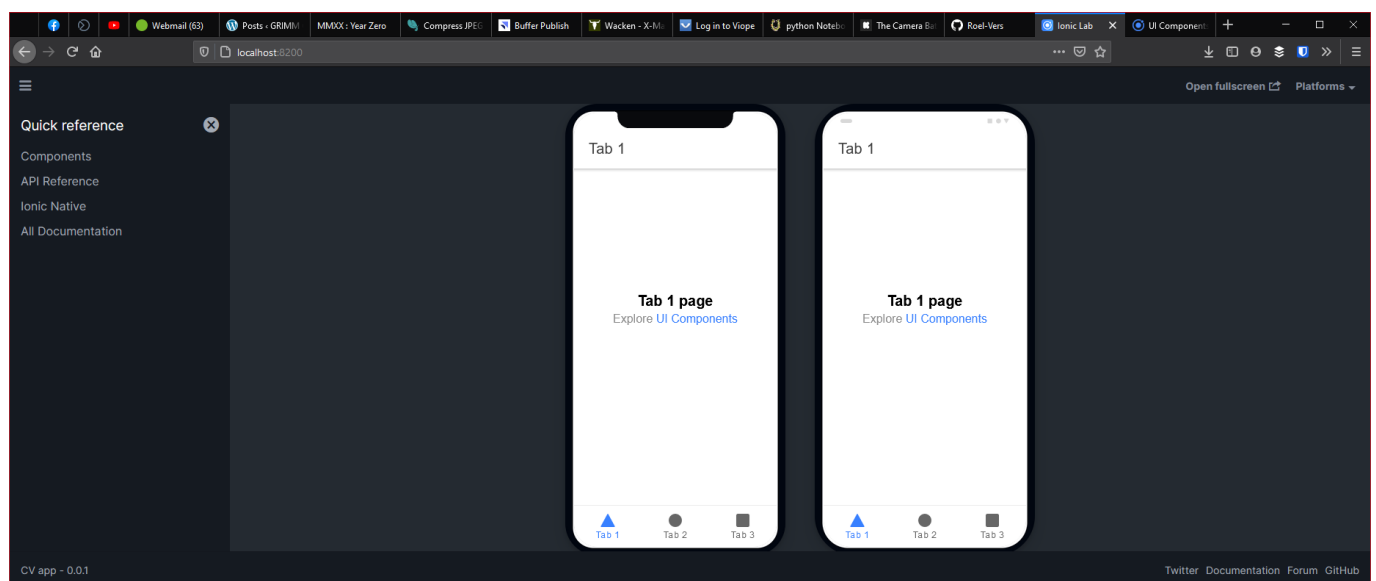
Ionic Enterprise, platform and solutions for teams by Ionic

Powerful library of native APIs
A supercharged platform for teams

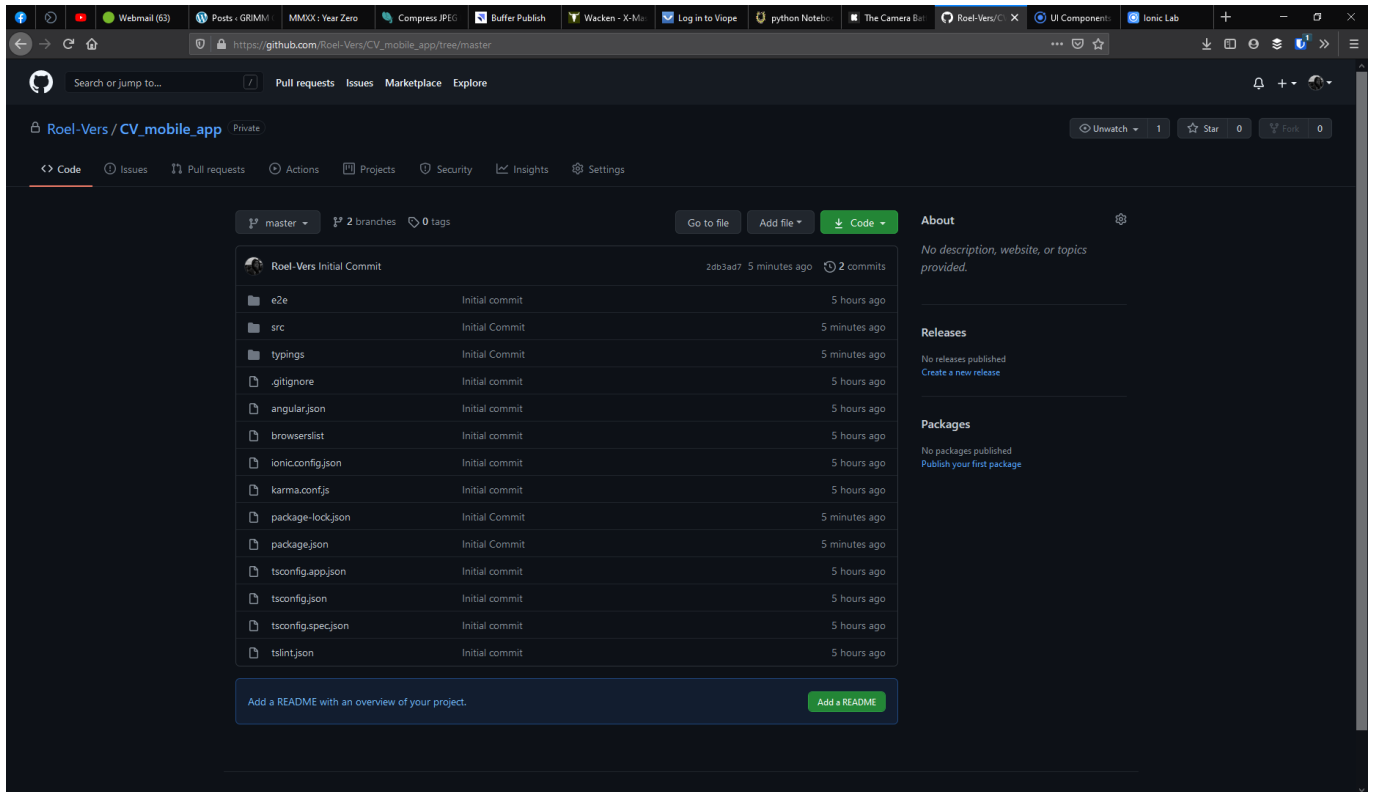
Learn more: https://ion.link/enterprise

> npm.cmd i
npm WARN deprecated request@2.88.2: request has been deprecated, see https://github.com/request/request/issues/3142
npm WARN deprecated chokidar@2.1.8: Chokidar 2 will break on node v14+. Upgrade to chokidar 3 with 15x less dependencies.
npm WARN deprecated har-validator@5.1.3: this library is no longer supported
npm WARN deprecated fsevents@1.2.13: fsevents 1 will break on node v14+ and could be using insecure binaries. Upgrade to fsevents 2.
npm WARN deprecated url@0.11.0: Please see https://github.com/lydell/url#deprecated
npm WARN deprecated resolve-url@0.2.1: https://github.com/lydell/resolve-url#deprecated
> core-js@3.6.4 postinstall C:\Users\Roel\CV-app\cv-app\node_modules\core-js
> node -e "try(require('./postinstall'))catch(e){}"
Thank you for using core-js ( https://github.com/zloirock/core-js ) for polyfilling JavaScript standard library!
The project needs your help! Please consider supporting of core-js on Open Collective or Patreon:
> https://opencollective.com/core-js
> https://www.patreon.com/zloirock
Also, the author of core-js ( https://github.com/zloirock ) is looking for a good job :- )
> @angular/cli@10.0.8 postinstall C:\Users\Roel\CV-app\cv-app\node_modules\@angular\cli
> node ./bin/postinstall/script.js
```

After the app was set up, I served it in lab so I could follow the progress and changes I make along the way:



Before I started to make my changes, I set up a repository on my GitHub account so I could commit the starting code there and commit the changes in a safe way without breaking the coding that worked. Once I set up the repository, I committed the basic app files and coding to the master branch there:



And then it was time to get the basic app I had set up molded into the personal CV mobile app that I intended to do. Before I went to VS code to start working on the coding, I had to create a couple of pages that I needed for the app: personal info, experience, skills, projects and contact information. This was done through command with “ionic generate page pages/*pagename*”. I made sure that all the pages I created were gathered in the same “pages” folder for easy navigation within VS code.

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```
C:\Users\Roel\CV-app\cv-app>ionic generate page pages/personal
> ng.cmd generate page pages/personal
Would you like to share anonymous usage data about this project with the Angular Team at
Google under Google's Privacy Policy at https://policies.google.com/privacy? For more
details and how to change this setting, see http://angular.io/analytics. No
CREATE src/app/pages/personal/personal.module.ts (486 bytes)
CREATE src/app/pages/personal/personal.page.html (127 bytes)
CREATE src/app/pages/personal/personal.page.spec.ts (661 bytes)
CREATE src/app/pages/personal/personal.page.ts (264 bytes)
CREATE src/app/pages/personal/personal.page.scss (0 bytes)
UPDATE src/app/app-routing.module.ts (548 bytes)
[OK] Generated page!

C:\Users\Roel\CV-app\cv-app>ionic generate page pages/experience
> ng.cmd generate page pages/experience
CREATE src/app/pages/experience/experience.module.ts (363 bytes)
CREATE src/app/pages/experience/experience.module.ts (500 bytes)
CREATE src/app/pages/experience/experience.page.html (129 bytes)
CREATE src/app/pages/experience/experience.page.spec.ts (675 bytes)
CREATE src/app/pages/experience/experience.page.ts (272 bytes)
CREATE src/app/pages/experience/experience.page.scss (0 bytes)
UPDATE src/app/app-routing.module.ts (687 bytes)
[OK] Generated page!

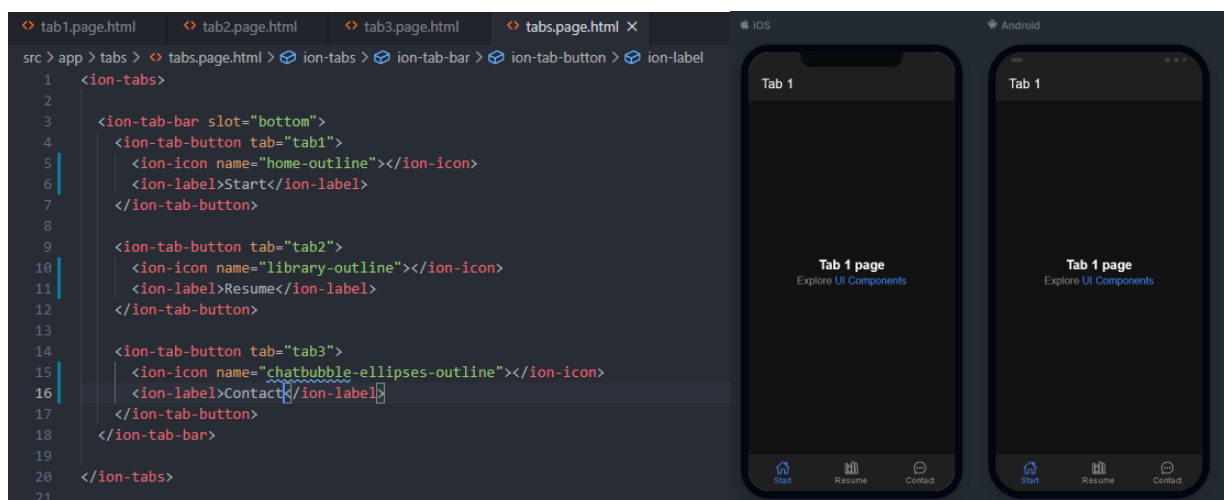
C:\Users\Roel\CV-app\cv-app>ionic generate page pages/skills
> ng.cmd generate page pages/skills
CREATE src/app/pages/skills/skills.module.ts (347 bytes)
CREATE src/app/pages/skills/skills.module.ts (472 bytes)
CREATE src/app/pages/skills/skills.page.html (125 bytes)
CREATE src/app/pages/skills/skills.page.spec.ts (647 bytes)
CREATE src/app/pages/skills/skills.page.ts (256 bytes)
CREATE src/app/pages/skills/skills.page.scss (0 bytes)
UPDATE src/app/app-routing.module.ts (810 bytes)
[OK] Generated page!

C:\Users\Roel\CV-app\cv-app>ionic generate page pages/project
> ng.cmd generate page pages/project
CREATE src/app/pages/project/project.module.ts (351 bytes)
CREATE src/app/pages/project/project.module.ts (479 bytes)
CREATE src/app/pages/project/project.page.html (126 bytes)
CREATE src/app/pages/project/project.page.spec.ts (654 bytes)
CREATE src/app/pages/project/project.page.ts (260 bytes)
CREATE src/app/pages/project/project.page.scss (0 bytes)
UPDATE src/app/app-routing.module.ts (937 bytes)
[OK] Generated page!

C:\Users\Roel\CV-app\cv-app>ionic generate page pages/contact
> ng.cmd generate page pages/contact
CREATE src/app/pages/contact/contact.module.ts (351 bytes)
CREATE src/app/pages/contact/contact.module.ts (479 bytes)
CREATE src/app/pages/contact/contact.page.html (126 bytes)
CREATE src/app/pages/contact/contact.page.spec.ts (654 bytes)
CREATE src/app/pages/contact/contact.page.ts (260 bytes)
CREATE src/app/pages/contact/contact.page.scss (0 bytes)
UPDATE src/app/app-routing.module.ts (1064 bytes)
[OK] Generated page!

C:\Users\Roel\CV-app\cv-app>ionic serve --lab
> ng.cmd run app:serve --host=localhost --port=8100
[ng] chunk {} 0.js, 0.js.map () 38.4 KB [rendered]
[ng] WARNING in C:\Users\Roel\CV-app\cv-app\src\test.ts is part of the TypeScript compilation but it's unused.
[ng] Add only entry points to the 'files' or 'include' properties in your tsconfig.
[ng] WARNING in C:\Users\Roel\CV-app\cv-app\src\environments\environment.prod.ts is part of the TypeScript compilation but it's unused.
[ng] Add only entry points to the 'files' or 'include' properties in your tsconfig.
```

Next, I opened up my project in VS code and served the project with “ionic serve -lab”, so I could monitor the changes that I applied to it. First up, I adjusted the tabs at the bottom to navigate within the app to the welcome tab, resume tab and contact tab by adding some different icons and labels:



Next, was working on adding a working burger menu on every page that folds open at the left side with an overlap, to navigate between the pages. In earlier projects, I manually added the exact coding for the whole menu to every single tab and page I generated. This is not really part of “best practices”, because that meant that I had to apply every minor adjustment I made to every single page. So I went to look for a way to include the menu on every tab and page in a way that when changes are made to the menu, the updated menu automatically is shown on every tab and page:

- Adding the following to “app.component.html” to ensure that the menu appears on every page without having to copy paste the full code in every html file:

```
src > app > app.component.html > ion-app
1 <ion-app>
2   <ion-split-pane contentId="main-content">
3     <ion-menu contentId="main-content" type="overlay">
4       <ion-content>
5         <ion-list id="inbox-list">
6           <ion-list-header>
7             <ion-toolbar color="primary">
8               <ion-title>Menu</ion-title>
9             </ion-toolbar>
10            </ion-list-header>
11
12            <ion-menu-toggle auto-hide="false" *ngFor="let p of appPages; let i = index">
13              <!--connecting the menu elements to the pages via routing-->
14              <ion-item (click)="selectedIndex = i" routerDirection="root" [routerLink]="[p.url]" lines="none"
15                detail="false" [class.selected]="selectedIndex == i">
16                <!--selecting menu element icons-->
17                <ion-icon slot="start" [ios]="p.icon + '-outline'" [md]="p.icon + '-sharp'"></ion-icon>
18                <!--selecting menu element titles-->
19                <ion-label>{{ p.title }}</ion-label>
20              </ion-item>
21            </ion-menu-toggle>
22          </ion-list>
23        </ion-content>
24      </ion-menu>
25    <ion-router-outlet id="main-content"></ion-router-outlet>
26  </ion-split-pane>
27</ion-app>
```

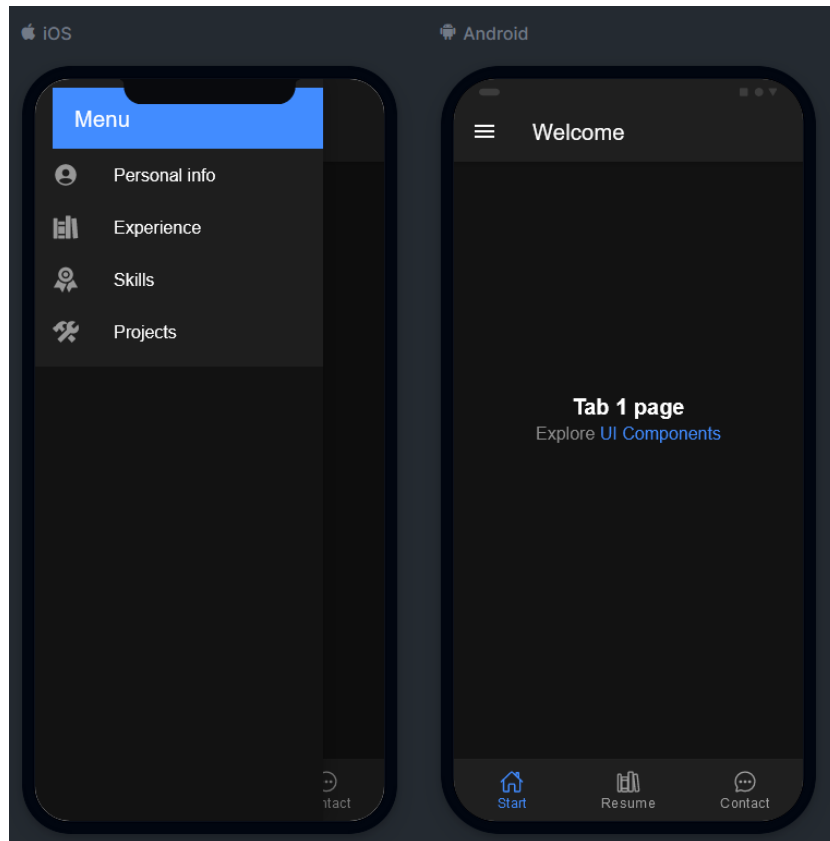
- Adding the following to “app.component.ts” to generate the icons and titles in the menu accordingly:

```
src > app > TS app.component.ts > AppComponent > appPages
1 import { Component } from '@angular/core';
2
3 import { Platform } from '@ionic/angular';
4 import { SplashScreen } from '@ionic-native/splash-screen/ngx';
5 import { StatusBar } from '@ionic-native/status-bar/ngx';
6
7 @Component({
8   selector: 'app-root',
9   templateUrl: 'app.component.html',
10  styleUrls: ['app.component.scss']
11 })
12 export class AppComponent {
13   public selectedIndex = 0;
14   public appPages = [
15     {
16       title: 'Personal info',
17       url: '/folder/info',
18       icon: 'person-circle'
19     },
20     {
21       title: 'Experience',
22       url: '/folder/experience',
23       icon: 'library'
24     },
25     {
26       title: 'Skills',
27       url: '/folder/skills',
28       icon: 'ribbon'
29     },
30     {
31       title: 'Projects',
32       url: '/folder/projects',
33       icon: 'construct'
34     },
35   ];
36   constructor(
37     private platform: Platform,
38     private splashScreen: SplashScreen,
39     private statusBar: StatusBar
40   ) {
41     this.initializeApp();
42   }
43
44   initializeApp() {
45     this.platform.ready().then(() => {
46       this.statusBar.styleDefault();
47       this.splashScreen.hide();
48     });
49   }
50 }
```

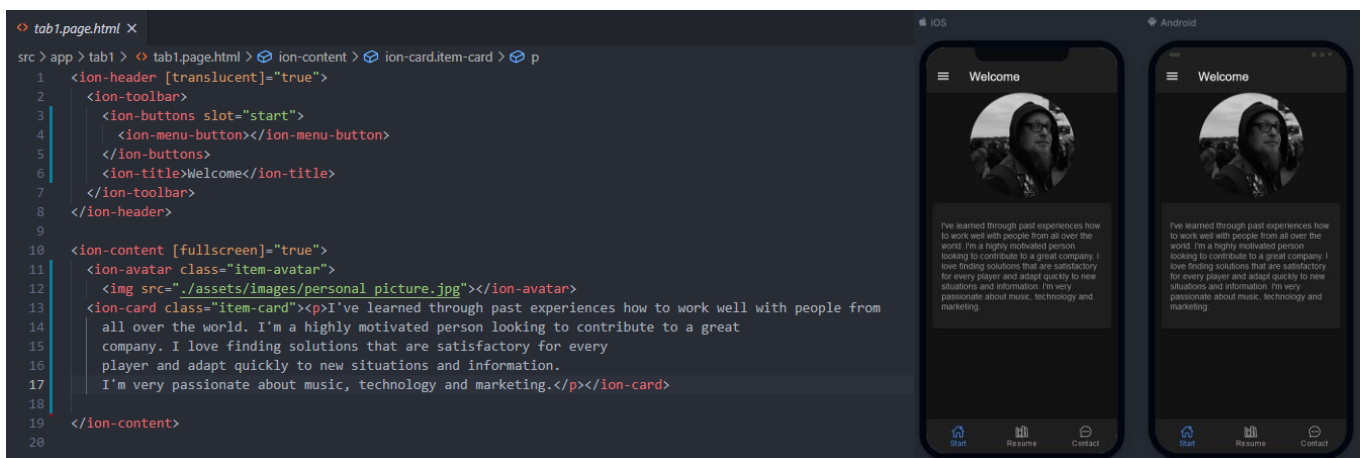
- And then lastly, adding the following code to the start of every page and tab to ensure that the menu appears on every single page:

```
1 <ion-header>
2   <ion-toolbar>
3     <ion-buttons slot="start">
4       <ion-menu-button></ion-menu-button>
5     </ion-buttons>
6     <ion-title>Personal info</ion-title>
7   </ion-toolbar>
8 </ion-header>
9
10 <ion-content>
11
12 </ion-content>
13
```

Resulting in:



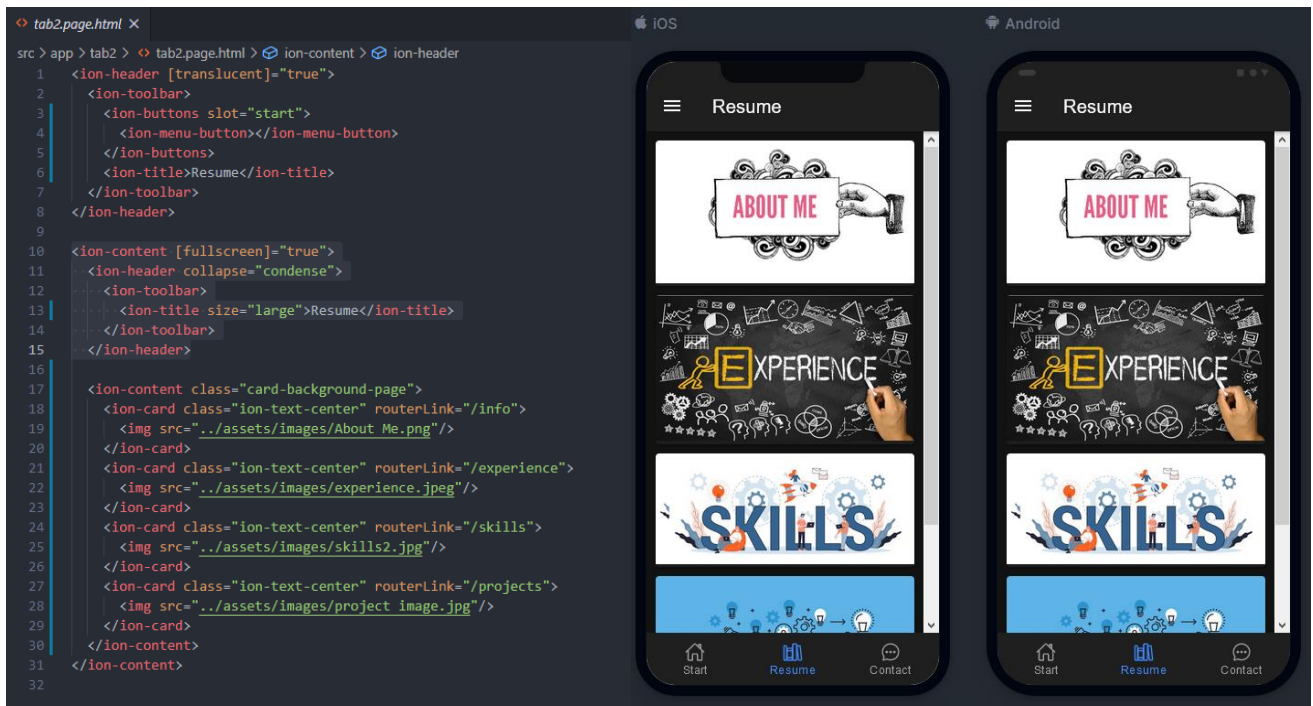
Next, I set up the “Welcome” tab with a picture of me as an avatar and a card with a short description of me and my goals:



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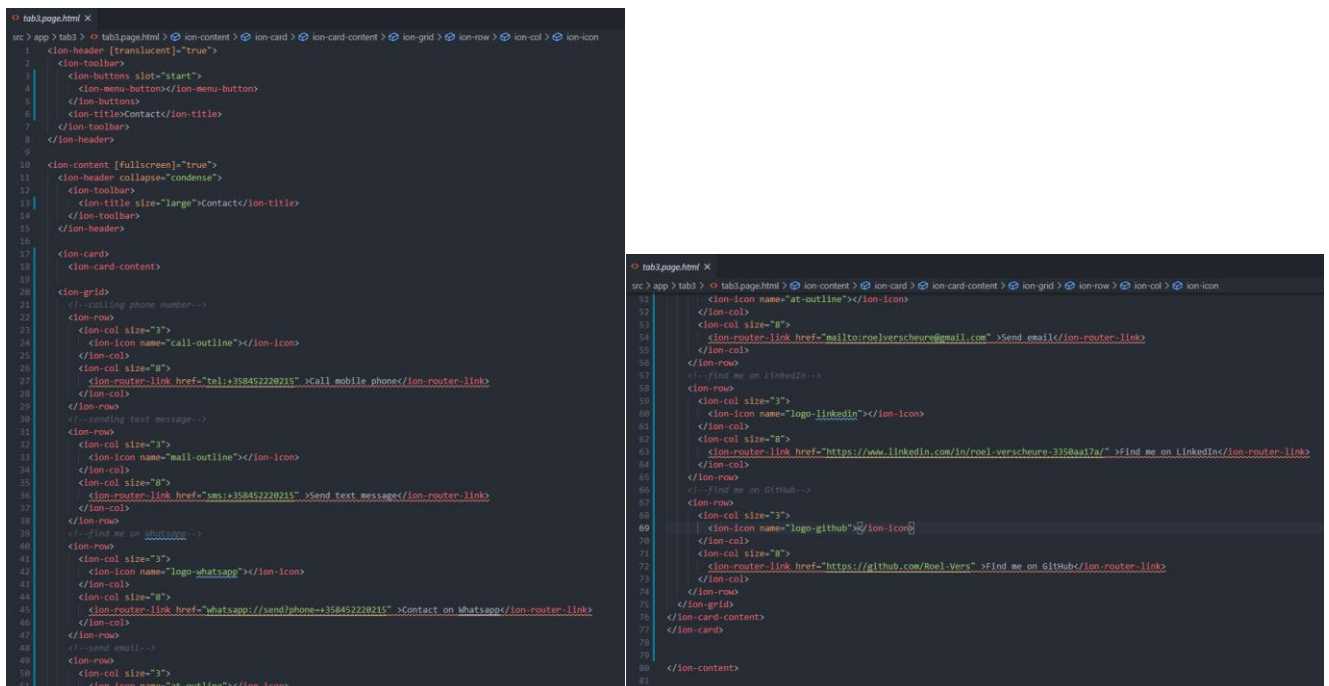
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Then the “Resume” tab with cards that link to the “Personal info”, “Experience”, “Skills” and “Projects” pages:



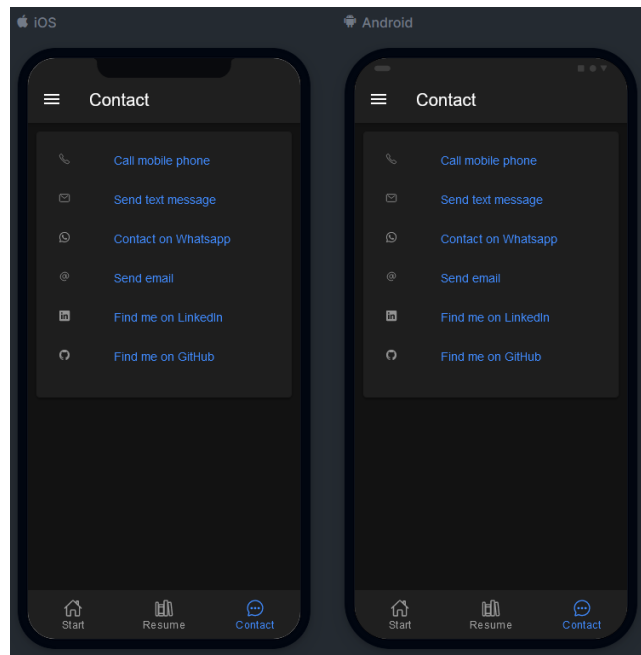
I purposely looked for images to use as the background of the cards that clearly stated what is to be found behind them, so a card title wasn't necessary.

Then lastly, I set up the “Contact” tab with the necessary links to certain contact options:



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I added icons that matched with the contact option and added straight links to calling my number, sending me a text message, contact me on Whatsapp, send an email or find me on LinkedIn and GitHub. I used grid, row and column to organize the icons and links neatly next to each other.

Then I still had to add content to the pages. First up was the personal information page:

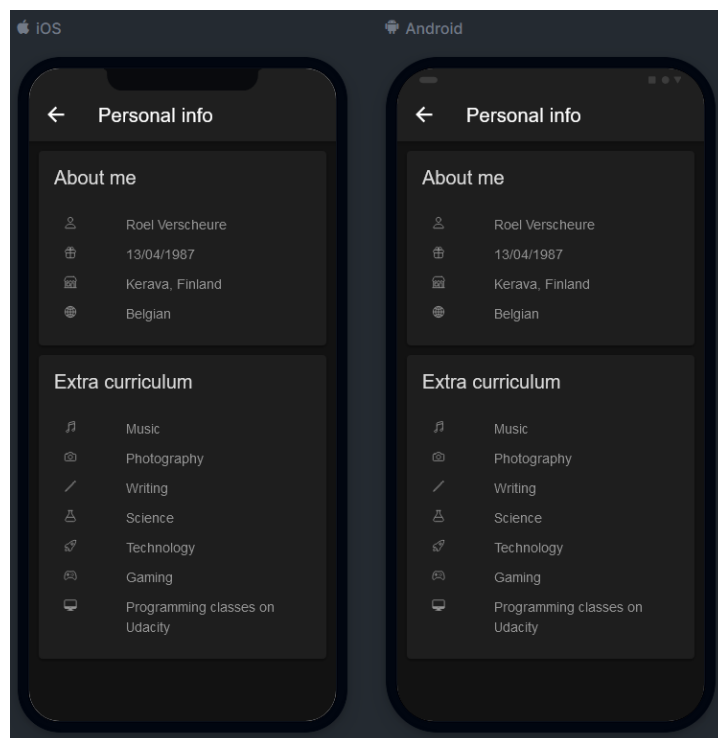
```
info.page.html X
src > app > pages > info > info.page.html > ion-content > ion-card > ion-card-content > ion-grid > ion-row
1 <ion-header [translucent]="true">
2   <ion-toolbar>
3     <ion-buttons slot="start">
4       <ion-back-button defaultHref="#tab2"></ion-back-button>
5     </ion-buttons>
6     <ion-title>Personal info</ion-title>
7   </ion-toolbar>
8 </ion-header>
9
10 <ion-content>
11   <ion-card>
12     <ion-card-header>
13       <ion-card-title>About me</ion-card-title>
14     </ion-card-header>
15
16     <ion-card-content>
17       <ion-grid>
18         <ion-row>
19           <ion-col size="3">
20             <ion-icon name="person-outline"></ion-icon></ion-col>
21           <ion-col size="8">
22             Roel Verscheure
23           </ion-col>
24         </ion-row>
25         <ion-row>
26           <ion-col size="3">
27             <ion-icon name="gift-outline"></ion-icon></ion-col>
28           <ion-col size="8">
29             13/04/1987
30           </ion-col>
31         </ion-row>
32         <ion-row>
33           <ion-col size="3">
34             <ion-icon name="storefront-outline"></ion-icon></ion-col>
35           <ion-col size="8">
36             Kerava, Finland
37           </ion-col>
38         </ion-row>
39         <ion-row>
40           <ion-col size="3">
41             <ion-icon name="globe-outline"></ion-icon></ion-col>
42           <ion-col size="8">
43             Belgian
44           </ion-col>
45         </ion-row>
46       </ion-grid>
47     </ion-card-content>
48   </ion-card>
49
50   <ion-card>
51     <ion-card-header>
52       <ion-card-title>Extra curriculum</ion-card-title>
53     </ion-card-header>
54
55     <ion-card-content>
56       <ion-grid>
57         <ion-row>
58           <ion-col size="3">
59             <ion-icon name="musical-notes-outline"></ion-icon>
60           <ion-col>
61             <ion-col size="8">
62               Music
63             </ion-col>
64           </ion-row>
65         <ion-row>
66           <ion-col size="3">
67             <ion-icon name="camera-outline"></ion-icon>
68           <ion-col>
69             <ion-col size="8">
70               Photography
71             </ion-col>
72           </ion-row>
73         <ion-row>
74           <ion-col size="3">
75             <ion-icon name="pencil-outline"></ion-icon>
76           <ion-col>
77             <ion-col size="8">
78               Writing
79             </ion-col>
80           </ion-row>
81         <ion-row>
82           <ion-col size="3">
83             <ion-icon name="flask-outline"></ion-icon>
84           <ion-col>
85             <ion-col size="8">
86               Science
87             </ion-col>
88           </ion-row>
89         <ion-row>
90           <ion-col size="3">
91             <ion-icon name="rocket-outline"></ion-icon>
92           <ion-col>
93             <ion-col size="8">
94               Technology
95             </ion-col>
96           </ion-row>
97         <ion-row>
98           <ion-col size="3">
99             <ion-icon name="graduation-cap-outline"></ion-icon>
```

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```
99         <ion-icon name="game-controller-outline"></ion-icon>
100     </ion-col>
101     <ion-col size="8">
102         Gaming
103     </ion-col>
104 </ion-row>
105 <ion-row>
106     <ion-col size="3">
107         <ion-icon name="desktop-outline"></ion-icon>
108         (component) IonicModule.IonCol: typeof IonCol
109     <ion-col size="8">
110         Programming classes on Udacity
111     </ion-col>
112 </ion-row>
113 </ion-grid>
114 </ion-card-content>
115 </ion-card>
116
117 </ion-content>
118
119
```

Resulting in the following:



Again, I used cards, grid, row and column to organize and structure the content into an attractive lay-out with icons matching with every line of information.

Next, I set up the “Experience” page:

```
src > app > pages > experience > experience.page.html > ion-header
1 <ion-header [translucent]="true">
2   <ion-toolbar>
3     <ion-buttons slot="start">
4       <ion-back-button defaultHref="#tab2"></ion-back-button>
5     </ion-buttons>
6     <ion-title>Experience</ion-title>
7   </ion-toolbar>
8 </ion-header>
9
10 <ion-content>
11 <ion-card>
12 <ion-card-content>
13 <div>
14 <ul class="timeline">
15
16 <!-- Item 1 -->
17 <li>
18 <div class="direction-r">
19 <div class="flag-wrapper">
20 <span class="flag">BBA, Business Information Technology</span>
21 <span class="time-wrapper"><span class="time">2019 - present</span></span>
22 </div>
23 </div>
24 </li>
25
26 <!-- Item 2 -->
27 <li>
28 <div class="direction-r">
29 <div class="flag-wrapper">
30 <span class="flag">Cerulean Midnight (PR & Marketing)</span>
31 <span class="time-wrapper"><span class="time">2019</span></span>
32 </div>
33 </div>
34 </li>
35
36 <!-- Item 3 -->
37 <li>
38 <div class="direction-r">
39 <div class="flag-wrapper">
40 <span class="flag">Integration course Careeria</span>
41 <span class="time-wrapper"><span class="time">2018 - 2019</span></span>
42 </div>
43 </div>
44 </li>
45
46 <!-- Item 4 -->
47 <li>
48 <div class="direction-r">
49 <div class="flag-wrapper">
50 <span class="flag">Suomen kielen ja kulttuurin koulutus</span>
51 <span class="time-wrapper"><span class="time">2017 - 2018</span></span>
52 </div>
53 </div>
54 </li>
55
56 <!-- Item 5 -->
57 <li>
58 <div class="direction-r">
59 <div class="flag-wrapper">
60 <span class="flag">ICT Truck & Trailer Parts</span>
61 <span class="time-wrapper"><span class="time">2016</span></span>
62 </div>
63 </div>
64 </li>
65
66 <!-- Item 6 -->
67 <li>
68 <div class="direction-r">
69 <div class="flag-wrapper">
70 <span class="flag">SAS Automotive</span>
71 <span class="time-wrapper"><span class="time">2014 - 2016</span></span>
72 </div>
73 </div>
74 </li>
75
76 <!-- Item 7 -->
77 <li>
78 <div class="direction-r">
79 <div class="flag-wrapper">
80 <span class="flag">Professional bachelor secondary education teacher</span>
81 <span class="time-wrapper"><span class="time">2011 - 2016</span></span>
82 </div>
83 </div>
84 </li>
85
86 <!-- Item 8 -->
87 <li>
88 <div class="direction-r">
89 <div class="flag-wrapper">
90 <span class="flag">Eyxilab</span>
91 <span class="time-wrapper"><span class="time">2016</span></span>
92 </div>
93 </div>
94 </li>
95
96 </ul>
97 </div>
98 </ion-card-content>
99 </ion-card>
100 </ion-content>
101 </div>
102 </div>
103 </div>
104 </div>
105 </div>
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```

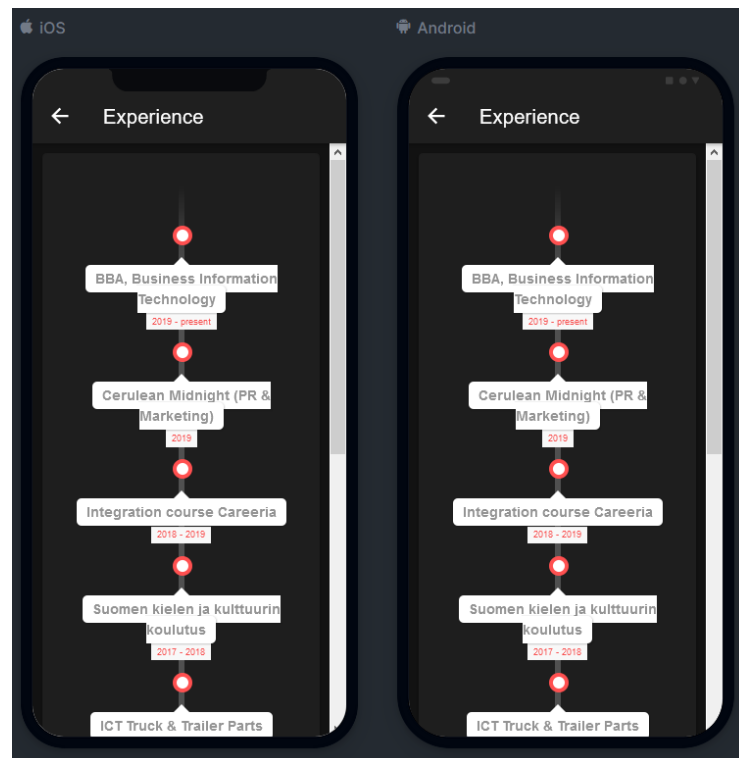
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```
103 <!-- Item 9 -->
104 <li>
105   <div class="direction-r">
106     <div class="flag-wrapper">
107       <span class="flag">Scouting</span>
108       <span class="time-wrapper"><span class="time">2005 - 2010</span></span>
109     </div>
110   </div>
111 </li>
112 </ul>
113 </div>
114 </ion-card-content>
115 </ion-card>
116 </ion-content>
117
118 background: #rgb(248, 248, 248);
119 padding: 6px 10px;
120 border-radius: 5px;
121
122 font-weight: 600;
123 text-align: left;
124 }
125
126 .direction-l .flag {
127   -webkit-box-shadow: -1px 1px 1px #rgba(0, 0, 0, 0.15);
128   0 0 1px #rgba(0, 0, 0, 0.15);
129   -moz-box-shadow: -1px 1px 1px #rgba(0, 0, 0, 0.15);
130   box-shadow: -1px 1px 1px #rgba(0, 0, 0, 0.15), 0 0 1px #rgba(0, 0, 0, 0.15);
131 }
132
133 .direction-r .flag {
134   -webkit-box-shadow: 1px 1px 1px #rgba(0, 0, 0, 0.15);
135   0 0 1px #rgba(0, 0, 0, 0.15);
136   -moz-box-shadow: 1px 1px 1px #rgba(0, 0, 0, 0.15);
137   box-shadow: 1px 1px 1px #rgba(0, 0, 0, 0.15), 0 0 1px #rgba(0, 0, 0, 0.15);
138 }
139
140 .direction-l .flag:before,
141 .direction-r .flag:before {
142   position: absolute;
143   top: 50%;
144   right: -40px;
145   content: " ";
146   display: block;
147   width: 12px;
148   height: 12px;
149   margin-top: -10px;
150   background: #fff;
151   border-radius: 10px;
152   border: 4px solid #rgb(255, 80, 80);
153   z-index: 10;
154 }
155
156 .direction-r .flag:before {
157   left: -40px;
158 }
159
160 .direction-l .flag:after {
161   content: "";
162   position: absolute;
163   left: 100%;
164   top: 50%;
165   height: 0;
166   width: 0;
167   margin-top: -8px;
168   border: solid transparent;
169   border-bottom-color: #rgb(255, 255, 255);
170   border-width: 0px;
171   pointer-events: none;
172 }
173
174 .time-wrapper {
175   display: inline;
176   line-height: 1em;
177   font-size: 0.66666em;
178   color: #rgb(250, 80, 80);
179   vertical-align: middle;
180 }
181
182 .direction-l .time-wrapper {
183   float: left;
184 }
185
186 .direction-r .time-wrapper {
187   float: right;
188 }
189
190 .time {
191   display: inline-block;
192   padding: 4px 6px;
193   background: #rgb(248, 248, 248);
194 }
195
196 .desc {
197   margin: 1em 0.75em 0 0;
198   font-size: 0.77777em;
199   font-style: italic;
200   line-height: 1.5em;
201 }
202
203 .direction-r .desc {
204   position: absolute;
205   left: 50%;
206   top: -30px;
207   width: 50%;
208   content: " ";
209   display: block;
210   width: 12px;
211   height: 12px;
212   margin-left: -9px;
213   background: #fff;
214   border-radius: 10px;
215   border: 4px solid #rgb(255, 80, 80);
216   z-index: 10;
217 }
218
219 .direction-l .flag:after,
220 .direction-r .flag:after {
221   position: absolute;
222   top: 50%;
223   left: 50%;
224   content: " ";
225   display: block;
226   width: 12px;
227   height: 12px;
228   margin-left: -9px;
229   background: #fff;
230   border-radius: 10px;
231   border: 4px solid #rgb(255, 80, 80);
232   z-index: 10;
233 }
234
235 .direction-l .flag:after,
236 .direction-r .flag:after {
237   content: "";
```

```
154 border-left-color: #rgb(248, 248, 248);
155 border-width: 8px;
156 pointer-events: none;
157 }
158
159 .direction-r .flag:after {
160   content: "";
161   position: absolute;
162   right: 100%;
163   top: 50%;
164   height: 0;
165   width: 0;
166   margin-top: -8px;
167   border: solid transparent;
168   border-right-color: #rgb(248, 248, 248);
169   border-width: 8px;
170   pointer-events: none;
171 }
172
173 .time-wrapper {
174   display: inline;
175   line-height: 1em;
176   font-size: 0.66666em;
177   color: #rgb(250, 80, 80);
178   vertical-align: middle;
179 }
180
181 .direction-l .time-wrapper {
182   float: left;
183 }
184
185 .direction-r .time-wrapper {
186   float: right;
187 }
188
189 .time {
190   display: inline-block;
191   padding: 4px 6px;
192   background: #rgb(248, 248, 248);
193 }
194
195 .desc {
196   margin: 1em 0.75em 0 0;
197   font-size: 0.77777em;
198   font-style: italic;
199   line-height: 1.5em;
200 }
201
202 .direction-r .desc {
203   position: absolute;
204   left: 50%;
205   top: -30px;
206   width: 50%;
207   content: " ";
208   display: block;
209   width: 12px;
210   height: 12px;
211   margin-left: -9px;
212   background: #fff;
213   border-radius: 10px;
214   border: 4px solid #rgb(255, 80, 80);
215   z-index: 10;
216 }
217
218 .direction-l .flag:after,
219 .direction-r .flag:after {
220   position: absolute;
221   top: 50%;
222   left: 50%;
223   content: " ";
224   display: block;
225   width: 12px;
226   height: 12px;
227   margin-left: -9px;
228   background: #fff;
229   border-radius: 10px;
230   border: 4px solid #rgb(255, 80, 80);
231   z-index: 10;
232 }
233
234 .direction-l .flag:after,
235 .direction-r .flag:after {
236   content: "";
```

For the “Experience” page where I stated my past/present jobs, studies and volunteer work, I wanted to use a sort of timeline to visualize the chronology of it all. After scouring several forums and other places where people share information and coding, I found a html and css combination that worked for my app. I tried to further personalize it by adding icons that represents “work”, “studies” and “volunteering” and tried to add an extra line for further explanation about the item, but whatever I tried failed to do what I wanted. I had to drop this, but intend to develop this further in the nearby future. This ended up being the result:



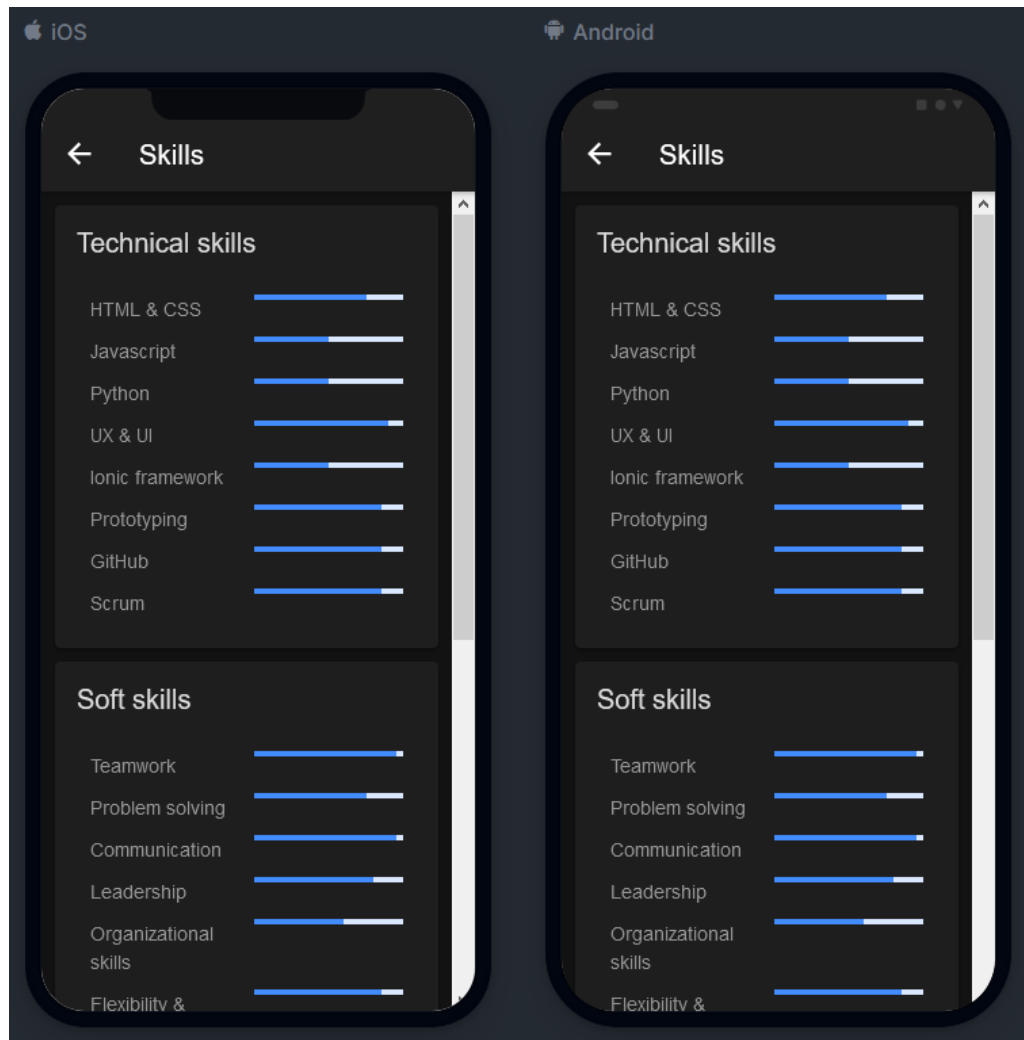
For the content in the “Skills” page, I intended to indicate my proficiency in every skill, similar to how it was expressed on my CV. So a combination of cards, grid, row and column to organize everything neatly, I added fixed progress bars next to each skill to accomplish this:

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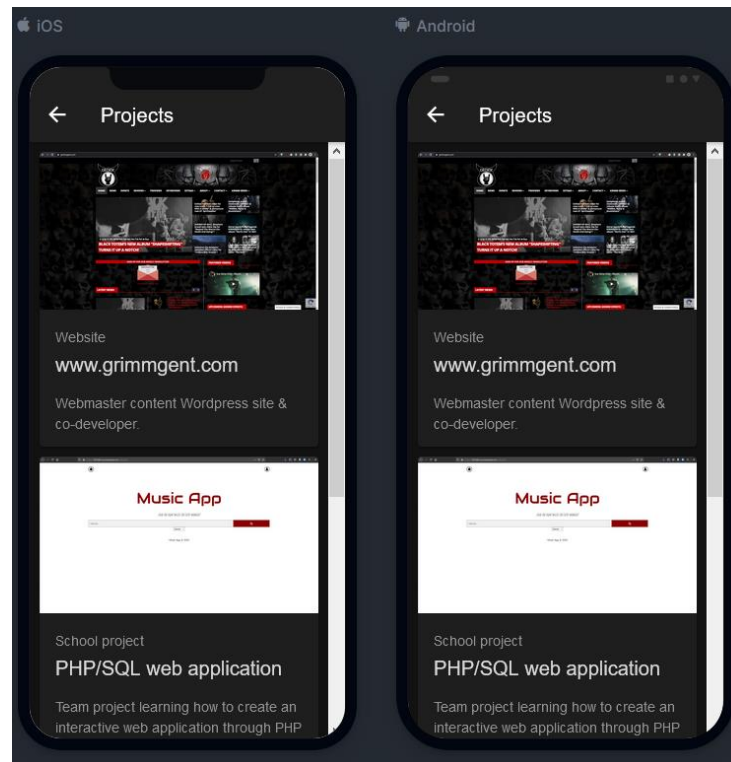
```
skills.page.html X
src > app > pages > skills > skills.page.html > ion-header
1  <ion-header [translucent]="true">
2    <ion-toolbar>
3      <ion-buttons slot="start">
4        <ion-back-button defaultHref="#tab2"></ion-back-button>
5      </ion-buttons>
6      <ion-title>Skills</ion-title>
7    </ion-toolbar>
8  </ion-header>
9
10 <ion-content>
11 <ion-card>
12   <ion-card-header>
13     <ion-card-title>Technical skills</ion-card-title>
14   </ion-card-header>
15
16   <ion-card-content>
17     <ion-grid>
18       <ion-row>
19         <ion-col size="6">
20           HTML & CSS</ion-col>
21         <ion-col size="6">
22           <ion-progress-bar value="0.75"></ion-progress-bar>
23         </ion-col>
24       </ion-row>
25       <ion-row>
26         <ion-col size="6">
27           Javascript</ion-col>
28         <ion-col size="6">
29           <ion-progress-bar value="0.5"></ion-progress-bar>
30         </ion-col>
31       </ion-row>
32       <ion-row>
33         <ion-col size="6">
34           Python</ion-col>
35         <ion-col size="6">
36           <ion-progress-bar value="0.5"></ion-progress-bar>
37         </ion-col>
38       </ion-row>
39       <ion-row>
40         <ion-col size="6">
41           UX & UI</ion-col>
42         <ion-col size="6">
43           <ion-progress-bar value="0.9"></ion-progress-bar>
44         </ion-col>
45       </ion-row>
46       <ion-row>
47         <ion-col size="6">
48           Ionic framework</ion-col>
49         <ion-col size="6">
50           <ion-progress-bar value="0.5"></ion-progress-bar>
51         </ion-col>
52       </ion-row>
53       <ion-row>
54         <ion-col size="6">
55           Prototyping</ion-col>
56         <ion-col size="6">
57           <ion-progress-bar value="0.85"></ion-progress-bar>
58         </ion-col>
59       </ion-row>
60       <ion-row>
61         <ion-col size="6">
62           GitHub</ion-col>
63         <ion-col size="6">
64           <ion-progress-bar value="0.85"></ion-progress-bar>
65         </ion-col>
66       </ion-row>
67       <ion-row>
68         <ion-col size="6">
69           Scrum</ion-col>
70         <ion-col size="6">
71           <ion-progress-bar value="0.85"></ion-progress-bar>
72         </ion-col>
73       </ion-row>
74     </ion-grid>
75   </ion-card-content>
76 </ion-card>
77 <ion-card>
78   <ion-card-header>
79     <ion-card-title>Soft skills</ion-card-title>
80   </ion-card-header>
81
82   <ion-card-content>
83     <ion-grid>
84       <ion-row>
85         <ion-col size="6">
86           Teamwork</ion-col>
87         <ion-col size="6">
88           <ion-progress-bar value="0.95"></ion-progress-bar>
89         </ion-col>
90       </ion-row>
91       <ion-row>
92         <ion-col size="6">
93           Problem solving</ion-col>
94         <ion-col size="6">
95           <ion-progress-bar value="0.75"></ion-progress-bar>
96         </ion-col>
97       </ion-row>
98       <ion-row>
99         <ion-col size="6">
100          Communication</ion-col>
101         <ion-col size="6">
102           <ion-progress-bar value="0.95"></ion-progress-bar>
103       </ion-row>
104     </ion-grid>
105   </ion-card-content>
106 </ion-card>
107   <ion-col size="6">
108     Leadership</ion-col>
109   <ion-col size="6">
110     <ion-progress-bar value="0.8"></ion-progress-bar>
111   </ion-col>
112 </ion-row>
113 <ion-row>
114   <ion-col size="6">
115     Organizational skills</ion-col>
116   <ion-col size="6">
117     <ion-progress-bar value="0.6"></ion-progress-bar>
118   </ion-col>
119 </ion-row>
120 <ion-row>
121   <ion-col size="6">
122     Flexibility & adaptability</ion-col>
123   <ion-col size="6">
124     <ion-progress-bar value="0.85"></ion-progress-bar>
125   </ion-col>
126 </ion-row>
127 </ion-card-content>
128 </ion-card>
129 <ion-card>
130   <ion-card-header>
131     <ion-card-title>Language</ion-card-title>
132   </ion-card-header>
133
134   <ion-card-content>
135     <ion-grid>
136       <ion-row>
137         <ion-col size="6">
138           Dutch</ion-col>
139         <ion-col size="6">
140           <ion-progress-bar value="1"></ion-progress-bar>
141         </ion-col>
142       </ion-row>
143       <ion-row>
144         <ion-col size="6">
145           English</ion-col>
146         <ion-col size="6">
147           <ion-progress-bar value="1"></ion-progress-bar>
148         </ion-col>
149       </ion-row>
150       <ion-row>
151         <ion-col size="6">
152           French</ion-col>
153         <ion-col size="6">
154           <ion-progress-bar value="0.5"></ion-progress-bar>
155         </ion-col>
156       </ion-row>
157       <ion-row>
158         <ion-col size="6">
159           Finnish</ion-col>
160         <ion-col size="6">
161           <ion-progress-bar value="0.25"></ion-progress-bar>
162         </ion-col>
163       </ion-row>
164     </ion-grid>
165   </ion-card-content>
166 </ion-card>
167 <ion-card>
168   <ion-card-header>
169     <ion-card-title>Other</ion-card-title>
170   </ion-card-header>
171
172   <ion-card-content>
173     <ion-grid>
174       <ion-row>
175         <ion-col size="6">
176           Office 365</ion-col>
177         <ion-col size="6">
178           <ion-progress-bar value="0.95"></ion-progress-bar>
179         </ion-col>
180       </ion-row>
181       <ion-row>
182         <ion-col size="6">
183           Wordpress</ion-col>
184         <ion-col size="6">
185           <ion-progress-bar value="0.75"></ion-progress-bar>
186         </ion-col>
187       </ion-row>
188       <ion-row>
189         <ion-col size="6">
190           Adobe CC</ion-col>
191         <ion-col size="6">
192           <ion-progress-bar value="0.65"></ion-progress-bar>
193         </ion-col>
194       </ion-row>
195     </ion-grid>
196   </ion-card-content>
197 </ion-card>
198 </ion-content>
199
```

That resulted in the following content in the page:



The last page that required content still, was the “Projects” page. There I worked with cards again, this time making use of titles, subtitles, an image and some extra text:

```
projects.page.html X
src > app > pages > projects > projects.page.html > ion-header
1 <ion-header [translucent]="true">
2   <ion-toolbar>
3     <ion-buttons slot="start">
4       <ion-back-button defaultHref="tab2"></ion-back-button>
5     </ion-buttons>
6     <ion-title>Projects</ion-title>
7   </ion-toolbar>
8 </ion-header>
9
10 <ion-content>
11   <ion-card>
12     
13     <ion-card-header>
14       <ion-card-subtitle>Website</ion-card-subtitle>
15       <ion-card-title>www.grimmgent.com</ion-card-title>
16     </ion-card-header>
17     <ion-card-content>
18       Webmaster content Wordpress site & co-developer.
19     </ion-card-content>
20   </ion-card>
21
22   <ion-card>
23     
24     <ion-card-header>
25       <ion-card-subtitle>School project</ion-card-subtitle>
26       <ion-card-title>PHP/SQL web application</ion-card-title>
27     </ion-card-header>
28     <ion-card-content>
29       Team project learning how to create an interactive web application through PHP and SQL.
30     </ion-card-content>
31   </ion-card>
32
33   <ion-card>
34     
35     <ion-card-header>
36       <ion-card-subtitle>School project</ion-card-subtitle>
37       <ion-card-title>Mobile app: Recipe book</ion-card-title>
38     </ion-card-header>
39     <ion-card-content>
40       Team project learning how to create a mobile app through the Ionic platform with Angular.
41     </ion-card-content>
42   </ion-card>
43 </ion-content>
44
```



With this, I had set up every tab and page within my app and aimed to get certain elements working according to plan. However, I ran into several problems along the way and came to the realization that my initial prototype/wireframe plan was too ambitious for my present capabilities.

A couple of the problems I ran into along the way and didn't seem to manage to resolve:

- I had the burger menu at first present on every single tab and page through the coding I had figured out earlier while testing some things out in another platform/app. While in that other app I managed to get the menu elements working (so going to the proper linked page), this time I just couldn't get it working. Most likely this was due to something small that I've overlooked in the routing, but no matter what and how much I tried I couldn't get it working. Eventually that got me to make the decision to replace the burger menu on the pages I created myself with a back button to uphold a certain flow still. Otherwise you ended up being stuck on that page since I couldn't get the tab menu on the bottom to work in those pages.
- I tried to get the burger menu content lay-out also adjusted according to my prototype, but everything I did simply messed up the functionality of the menu. Which in the end didn't matter much since it's not working anyway.
- Setting up a working login page was also a couple of scopes too far to accomplish within my time limits.

5 End reflection

Overall, I feel like I've learned quite a bit again through some trial and error and looking for solutions from more experienced people. I'm a bit disappointed that I didn't manage to get a more properly working app or wasn't able to get certain issues figured out, but I'm still pleased with how the end result looks like and works. Working on this has confirmed for me that I want to learn more about this and know better how to put a properly working mobile app together from scratch. While at times very frustrating when I didn't seem to get anywhere after hours of work, it hasn't chased me away from wanting to get more knowledgeable about working with Ionic and Angular.

Link to GitHub repository: <https://github.com/Roel-Vers/MyCV>

Link to OneDrive zip file of app: https://laureauas-my.sharepoint.com/:u:/g/personal/1902903_lau-rea_fi/EYzt4bOINQVCj7jLcofykxMBIEbBe-MFKG8dM6_vr3tqWA?e=8teSWZ