

**ISTANBUL TECHNICAL UNIVERSITY**  
**Faculty of Computer Science and Informatics**

**SOFTWARE INTERNSHIP**  
**FRONT-END DEVELOPMENT**

# **INTERNSHIP PROGRAM REPORT**

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**150180112**

**SUMMER / 2021**

**Istanbul Technical University**

**Faculty of Computer Science and Informatics**

**INTERNSHIP REPORT**

Academic Year: 2020/2021  
Internship Term: ☒ Summer ☐ Spring ☐ Fall

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☒ No  
  
In the Graduation Term? ☐ Yes  
☒ No  
  
Taking a class at Summer  
School? ☐ Yes (Number of Courses: \_\_\_\_\_)  
☒ No

**Institution Information**

Company Name: OTTOO YAZILIM A.Ş.  
Department: SOFTWARE DEPARTMENT  
Web Address: <http://ottoo.com/>  
PostalAddress: Maslak Mah. Büyükdere Cad. Meydan Sok. No:1 Beybi Giz Plaza Kat:15  
Maslak /İstanbul

### **Authorized Person Information**

Department: DEPARTMENT OF AUTHORIZED PERSON  
Title: TITLE OF AUTHORIZED PERSON  
Name Surname: NAME AND SURNAME OF AUTHORIZED PERSON  
Corporate E-Mail: CORPORATE E-MAIL ADDRESS OF AUTHORIZED PERSON  
Corporate Phone: CORPORATE PHONE NUMBER OF AUTHORIZED PERSON

### **Internship Work Information**

Internship Location: ☒ Turkey  
☐ Abroad  
Internship Start Date: IN 05.07.2021  
Internship End Date: IN 07.08.2021  
Number of Days Worked: 20  
During your internship, did you have insurance? ☒ Yes, I was insured by İTÜ.  
☐ Yes, I was insured by institution.  
☐ No, I did my internship abroad.  
☐ No.

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# 1 INFORMATION ABOUT THE INSTITUTION

”OTTOO YAZILIM A.Ş.” is a software development company based in Istanbul/Turkey. Company develops e-commerce web-sites for its clients using nopCommerce [1] open source. As a team, they use Jira, Atlassian [2] and Microsoft Teams platforms. They use scrum from agile project management methodology when doing business. Eczastok [3] and Instastok [4] are two examples of the projects they have created so far. Eczastok has been implemented as a web platform where pharmacists will be able to supply products safely and quickly. Instastok is an e-commerce site that is currently released as a demo. During the internship period, I took part in the front-end team of the company’s ottoo.com website project.

## 2 INTRODUCTION

The purpose of the internship was to front-end code the ottoo.com website as interns, learn and apply the scrum methodology [5]. In this process, we made applications on HTML/CSS, Bootstrap [6], Javascript.

We used the Atlassian-Jira platform for scrum, we managed and worked on the project on Visual Studio, and as an intern team we attended daily meetings in the morning and evening every day. Thus, we carried out a project in constant contact and open to cooperation. What was requested from us was to introduce the ottoo.com website to other employees of the company as if they were clients, within a certain period of time.

## 3 DESCRIPTION AND ANALYSIS OF THE INTERNSHIP PROJECT

### 3.1 Project Management

Seven of my intern friends, including me, did internships at the company this summer. We used the scrum methodology while doing business and our scrum master was Murat Aras. We divided the work into different sprints and passed the sprints as we progressed. We tracked the sprints on the Atlassian-Jira network.

At the beginning, project director Murat Aras told us how to carry out the project and showed us the ottoo.com website on the infrastructure of Figma [7], which was previously prepared by the FUHA company. He wanted us to convert the site into HTML/CSS codes as it was prepared here. In each of our progress, we pushed the task that was opened in the sprint and assigned to our name with the git extension, and we received feedback for missing or incorrect places. When we completed the assigned task, we moved on to the next sprint and new task assignment. In addition, we held daily 15-minute meetings with the interns and scrum master in the morning and evening every weekday, and we followed each other as a team throughout the process.

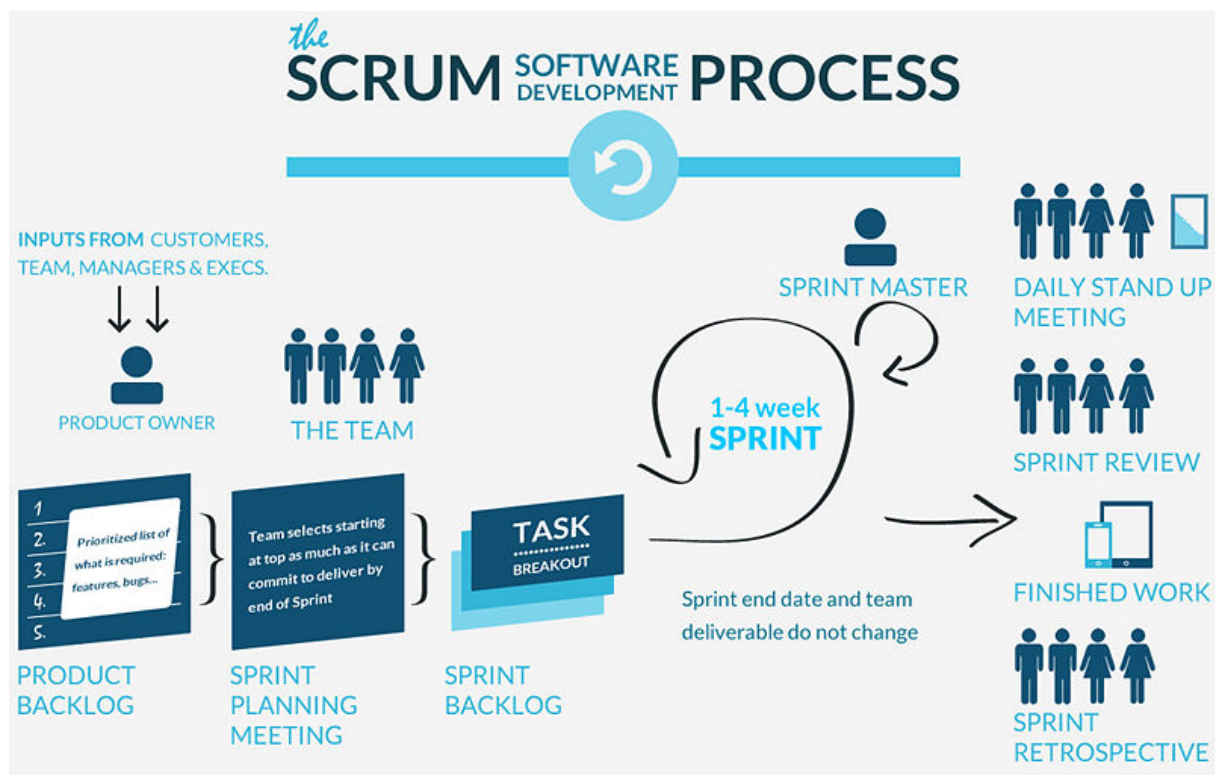


Figure 1: A Method in Agile Software Development: Scrum [5]

## 3.2 Implementing Front-end

My first sprint was adding images to the project. I filed PNG, JPG and SVG images in Figma and pushed them with git extension.

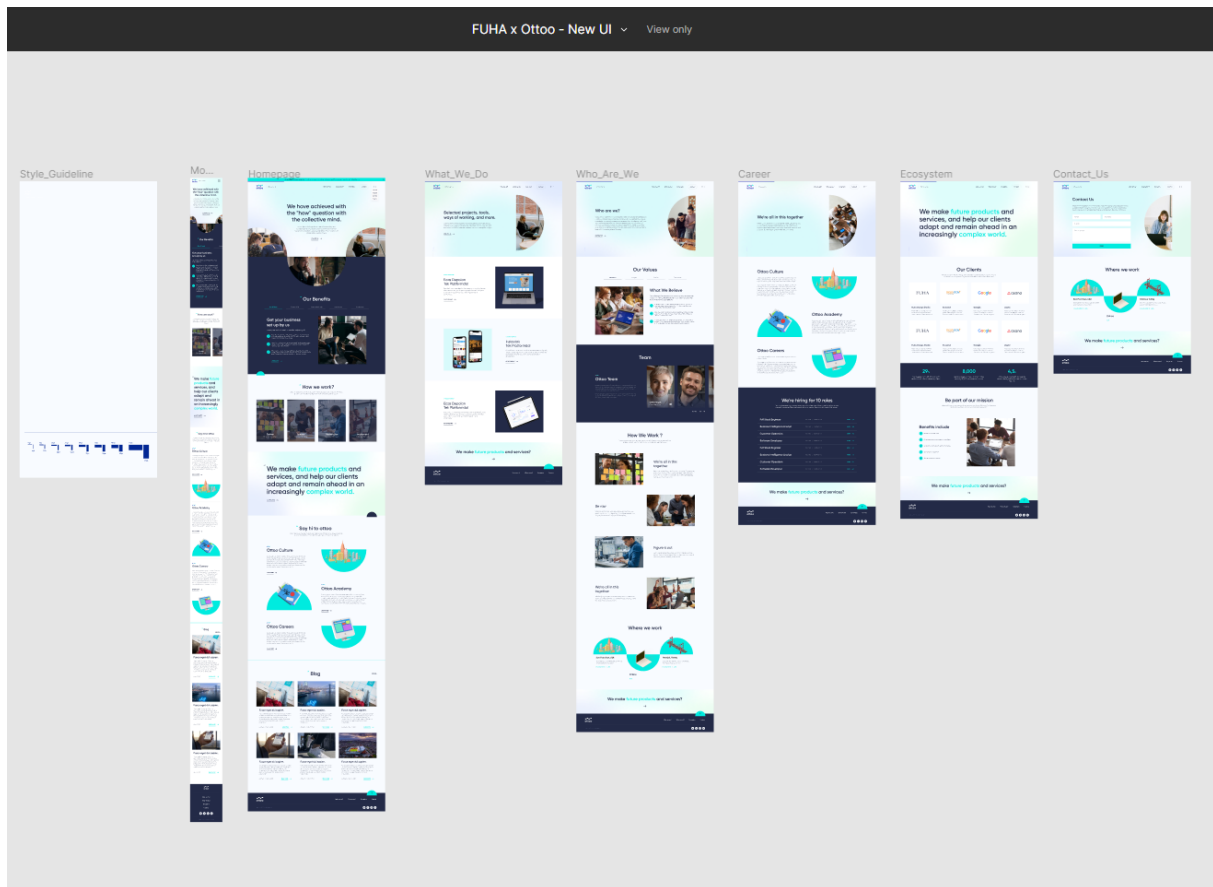


Figure 2: FUHA x Ottoo New UI

Secondly, the task assigned to me was to write a responsive footer for the ottoo.com website. I wrote the footer code using Bootstrap and HTML/CSS. I used nested `<div>` and "bootstrap class" constructs, I usually wrote the CSS parts in-line. I used bootstrap classes such as "d-flex, flex-column, justify-content, pb, mt..." and "@media only screen(max-width: ..px)" options to make the section responsive.

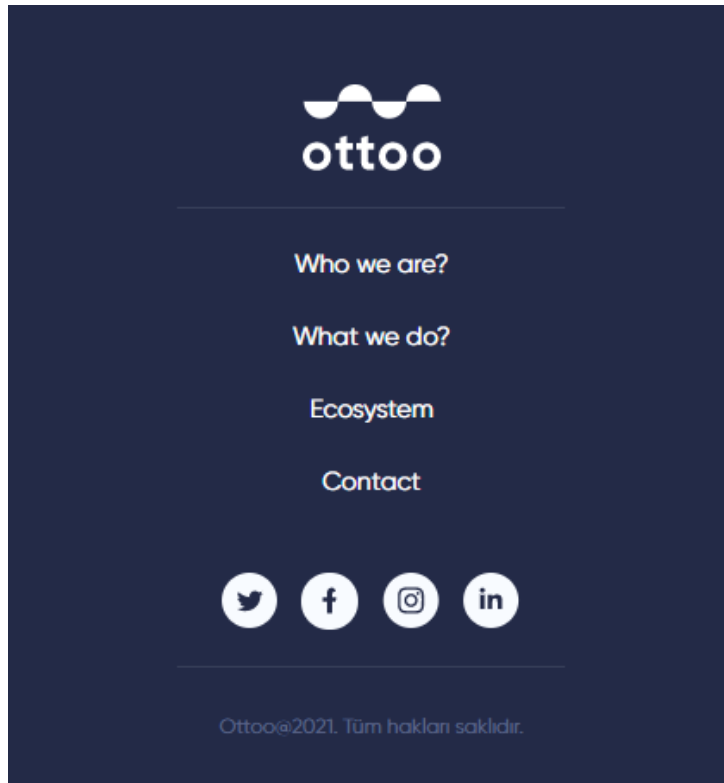


Figure 3: ottoo.com Footer implementation (Responsive vision)

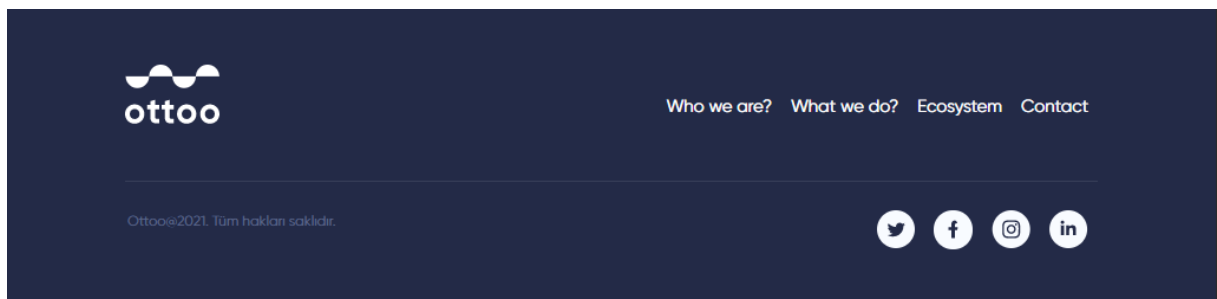
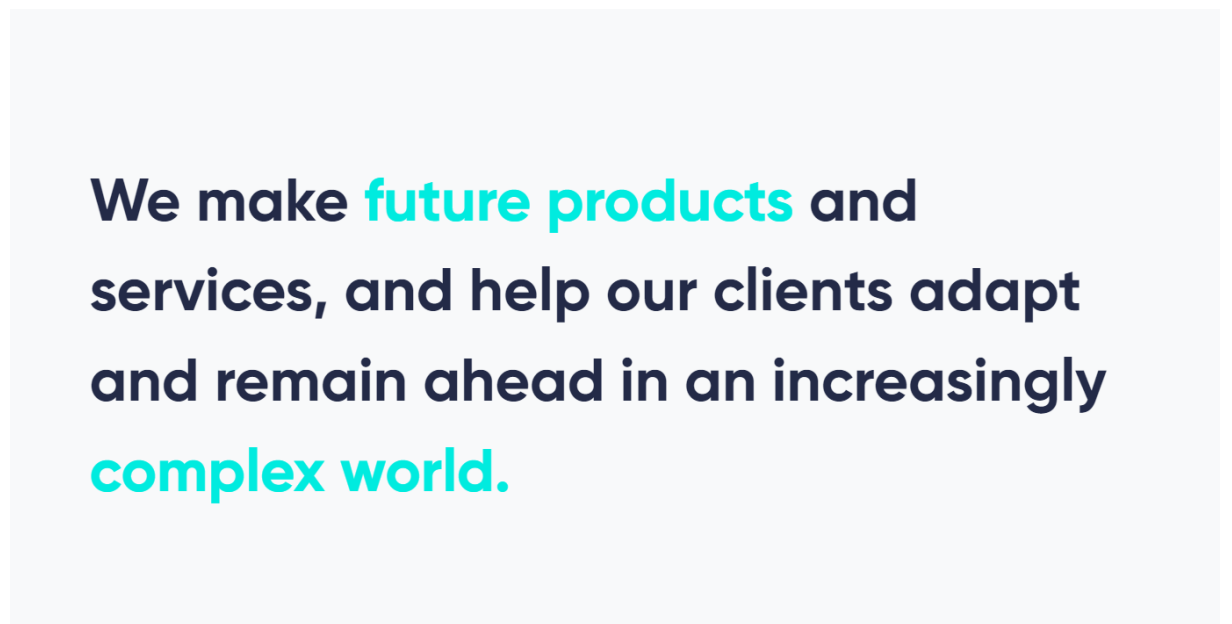


Figure 4: ottoo.com Footer implementation



In my next sprints, I wrote two more sections of HTML code for the "Ecosystem" and "Career" pages on the ottoo.com website.

In the section I wrote for the ecosystem page, I used `<div>`, `<span>` structures and bootstrap classes. To make the section responsive, I used media queries as I showed in the footer example.



**We make future products and services, and help our clients adapt and remain ahead in an increasingly complex world.**

Figure 5: ottoo.com Ecosystem page related section

In the section I wrote for the career page, I implemented the table example. Here I used containers from bootstrap classes besides `<div>` and `<span>` structures. Instead of the `<table>` structure to make the table, I preferred to use "row, column" classes to get better responsive results.

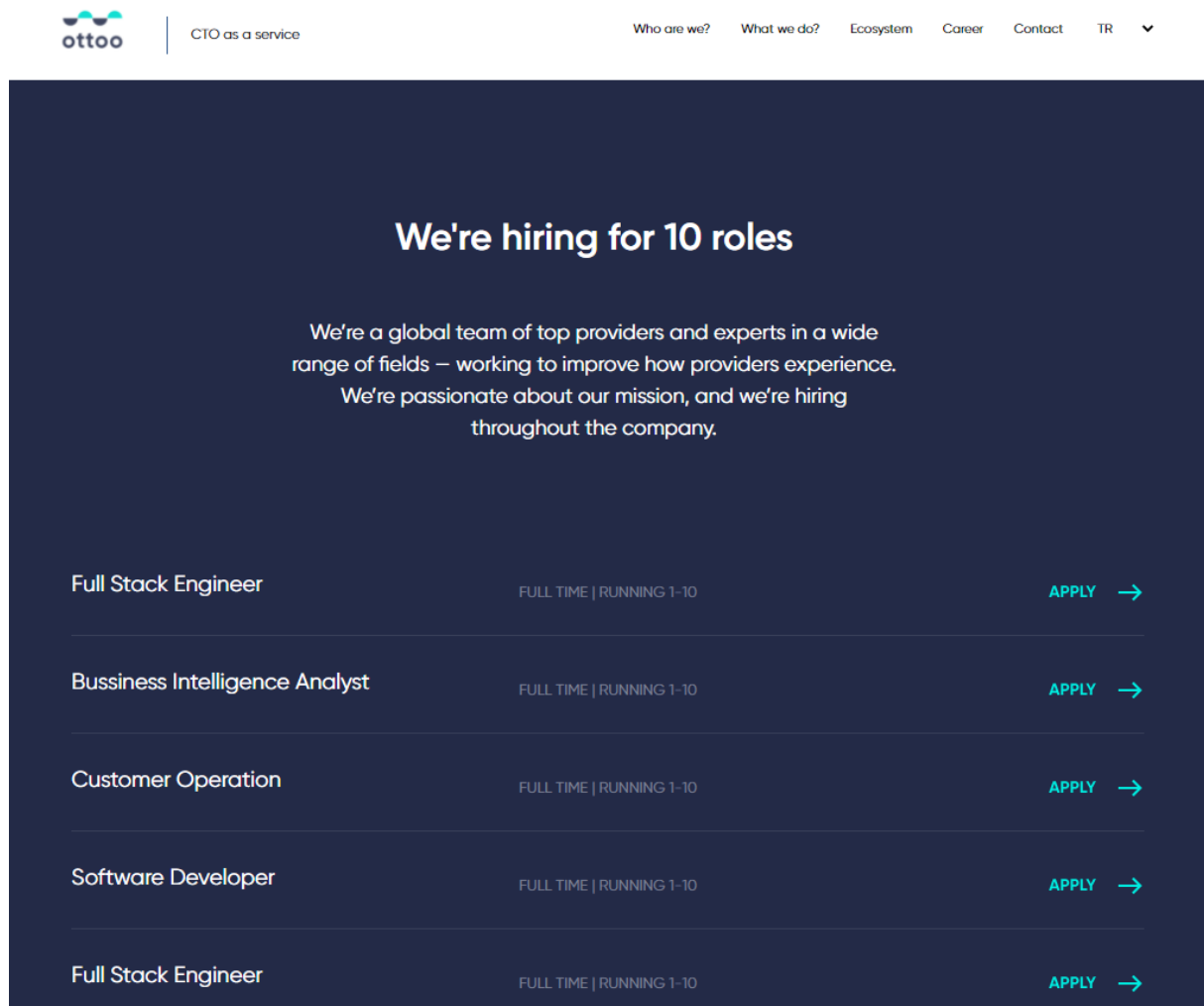


Figure 6: ottoo.com Career page related section

As you can see in Figure 7, I used the row structure for rows one under the other and I used the col structure to divide the rows vertically. I added the "line-career-section-2" class that I wrote in the CSS part to the end of each line. I wrote the section by changing only the specific places and repeating the code I showed in the image.

```

<div class="row">
  <div class="col"><span class="first-column-career-section-2">Full Stack Engineer</span></div>
  <div class="col pt-2">
    <span class="second-column-career-section-2">
      FULL TIME | RUNNING 1-10
    </span>
  </div>
  <div class="col pt-2">
    <span class="last-column-career-section-2">
      <a href="#"></a>
    </span>
  </div>
</div>
<div class="line-career-section-2 pt-4 px-4"></div>

```

Figure 7: ottoo.com Career page related section row-column HTML code

All the trainees had completed their assigned tasks, and all that was left was to get the website up and running. We ran into serious conflict problems here. Because there were 3-4 sections on a page and this means that at least 4 people work independently on each page. For this, we eliminated the conflicts in order and pushed the final state with git extension at every

step. Thus, we have eliminated the conflicts.

The Ottoo.com website has been finalized as front-end, but has not yet been published.

## 4 CONCLUSIONS

My internship at "OTTOO YAZILIM A.Ş." was instructive and experiential as it was my first internship. It was a shortcoming for me that my internship was online due to the pandemic conditions. But despite the online internship, human resources, engineers and CEO Murat Aras were in close contact with us. During the internship, there were meetings in the form of conferences. Full Stack Engineers Tolunay Emre Çavdar, who was our scrum-master in the ottoo.com project, helped me a lot during my internship. Separately, we held one-on-one meetings with CEO Murat Aras at regular intervals. I had the opportunity to constantly talk about my goals, how my internship was progressing, and my expectations.

I strengthened my HTML/CSS knowledge during the internship process. I had not used Bootstramp before, I learned how to use it and became familiar with it. I have not been in scrum before and I have experienced how useful it is when applied correctly. I didn't use media queries until my internship, I got to know and used it here. I also had the chance to run a batch project through visual studio.

OTTOO YAZILIM A.Ş. a company that is still at the beginning of the road. The number of employees cannot be compared with large companies, a team of ten to fifteen people. However, its engineers are experts in their work, and they also helped the interns in every way. For example, when I had a problem with git extension or visual studio, they helped me to solve it instantly. Despite the online internship, I did not feel a lack of continuous bilateral contacts.

In addition to my positive thoughts, I can count our late start to the project during the internship process and the question marks about how it went in the beginning as the negative aspects of my internship. The onboarding process that we entered when we started our internship took a long time and I did not learn much about computer engineering during this process. In the following process, we were asked to learn nopCommerce, MySQL and have knowledge in several similar branches, but this time there was nothing that I could gain competence in a very wide area in a short time. I would prefer to be a little more specific and focus on the technologies we will use in the project. I preferred to spend this process by learning Bootstrap and Javascript.

## 5 REFERENCES

- [1] <https://www.nopcommerce.com/>
- [2] About Atlassian-Jira platform: <https://www.atlassian.com/>
- [3] <https://www.eczastok.com/>
- [4] <https://demo.instastok.com/en/>
- [5] What is scrum? <https://www.scrum.org/resources/what-is-scrum>
- [6] <https://getbootstrap.com/>

[7] Figma link that we referenced: <https://www.figma.com/file/zqXe6NRNwMIvIoOkJyOnj6/FUHA-x-Ottoo---New-UI?node-id=0%3A1>

## 6 APPENDIX

```
<footer>
  <div class="footer-rectangle-1">
    <div class="d-flex flex-column flex-lg-row pb-4">
      <div class="footer-logo d-flex flex-column flex-lg-row text-center pb-4">
        <a href="#"></a>
      </div>
      <div class="mt-4" style="width: 100%;">
        <div class="d-flex flex-column flex-lg-row justify-content-end">
          <div class="footer-etiketler mx-2" style="font-size: 15px; text-align: center; min-width: 10px;">Who we are?</div>
          <div class="footer-etiketler mx-2" style="font-size: 15px; text-align: center; min-width: 10px;">What we do?</div>
          <div class="footer-etiketler mx-2" style="font-size: 15px; text-align: center; min-width: 10px;">Ecosystem</div>
          <div class="mx-2" style="font-size: 15px; text-align: center; min-width: 10px;">Contact</div>
        </div>
      </div>
    </div>
    <div class="footer-line"></div>
    <div class="d-flex flex-column-reverse flex-lg-row mt-4">
      <div class="footer-yazi">
        <div class="text-center" style="width: 180px; margin: 0 auto;">Ottoo@2021. Tüm hakları saklıdır.</div>
      </div>
      <div class="" style="width: 100%;">
        <div class="footer-social-media-icons pb-4 d-flex flex-row justify-content-center justify-content-lg-end">
          <div class="mx-2 text-center"><a href="#"></a></div>
          <div class="mx-2 text-center"><a href="#"></a></div>
          <div class="mx-2 text-center"><a href="#"></a></div>
          <div class="mx-2 text-center"><a href="#"></a></div>
        </div>
      </div>
    </div>
  </div>
</footer>
```

Figure 8: ottoo.com Footer HTML Code

```
1567 @media only screen and (max-width: 991px) {
1568
1569   .footer-logo {
1570     width: 100%;
1571     position: relative;
1572     border-bottom: 1px solid rgba(248, 251, 255, .1);
1573   }
1574
1575   .footer-social-media-icons {
1576     width: 100%;
1577     position: relative;
1578     border-bottom: 1px solid rgba(248, 251, 255, .1);
1579     margin-bottom: 25px;
1580   }
1581
1582   .footer-line {
1583     display: none;
1584   }
1585
1586   .footer-etiketler {
1587     margin-bottom: 20px;
1588   }
1589 }
```

Figure 9: ottoo.com Footer CSS example part for Media Queries

```

1427 <section>
1428   <div class="container yazi-ecosystem-section-1">
1429     <p>
1430       We make <span class="yazirengi-ecosystem-section-1">future products</span>
1431       and services, and help our clients adapt and remain ahead in an increasingly
1432       <span class="yazirengi-ecosystem-section-1">complex world.</span>
1433     </p>
1434   </div>
1435 </section>

```

Figure 10: ottoo.com Ecosystem Page Section-1 Code

```

1427 @media only screen and (max-width: 993px) {
1428   .yazi-ecosystem-section-1 {
1429     font-size: 72px;
1430     padding-top: 300px;
1431     padding-bottom: 200px;
1432     padding-left: 30px;
1433     padding-right: 30px;
1434     color: #232A47;
1435     font-style: normal;
1436     font-weight: bold;
1437   }
1438 }
1439 @media only screen and (max-width: 993px) {
1440   .yazirengi-ecosystem-section-1 {
1441     color: #808080;
1442   }
1443 }
1444 @media only screen and (max-width: 993px) {
1445   .yazi-ecosystem-section-1 {
1446     font-size: 56px;
1447     padding-top: 300px;
1448     padding-bottom: 200px;
1449     color: #232A47;
1450   }
1451   .yazi-ecosystem-section-1 p {
1452     font-size: 56px;
1453   }
1454 }
1455 @media only screen and (max-width: 425px) {
1456   .yazi-ecosystem-section-1 p {
1457     font-size: 34px;
1458   }
1459 }
1460 @media only screen and (max-width: 768px) {

```

Figure 11: ottoo.com Ecosystem Page Section-1 CSS Code

```

1461 @media only screen and (max-width: 768px) {
1462   .yazi-ecosystem-section-1 {
1463     font-size: 40px;
1464     padding-top: 300px;
1465     padding-bottom: 200px;
1466     color: #232A47;
1467   }
1468 }
1469 @media only screen and (max-width: 575px) {
1470   .yazi-ecosystem-section-1 {
1471     font-size: 32px;
1472     padding-top: 300px;
1473     padding-bottom: 200px;
1474     color: #232A47;
1475   }
1476 }
1477 @media only screen and (max-width: 435px) {
1478   .yazi-ecosystem-section-1 {
1479     font-size: 24px;
1480     padding-top: 300px;
1481     padding-bottom: 200px;
1482     color: #232A47;
1483   }
1484 }
1485 }

```

Figure 12: ottoo.com Ecosystem Page Section-1 CSS Code with Media Queries

```

88 <section class="career-section-2">
89   <div class="container alt-career-section-2">
90     <div class="basile-career-section-2 row justify-content-center pt-5">
91       <div class="position-relative col-md-7 col align-self-center">
92         <div class="likastir-career-section-2 text-center my-4">We're hiring for 10 roles</div>
93         <div class="text-center pt-4 altlikastir-career-section-2">
94           We're a global team of top providers and experts in a wide range of fields - working to improve how providers experience. We're passionate about our mission, and we're hiring throughout the company.
95         </div>
96       </div>
97     </div>
98   </div>
99   <div class="container altbolum-career-section-2 pt-5 pb-5">
100     <div class="row">
101       <div class="col"><span class="first-column-career-section-2">Full Stack Engineer</span></div>
102       <div class="col pt-2">
103         <span class="second-column-career-section-2">
104           FULL TIME | RUNNING 1-10
105         </span>
106       </div>
107     </div>
108     <div class="col pt-2">
109       <span class="last-column-career-section-2">
110         <a href="#"></a>
111       </span>
112     </div>
113   </div>
114   <div class="line-career-section-2 pt-4 pb-4"></div>
115 </section>
116

```

Figure 13: ottoo.com Career Page Section-2 Code (Continuous)

```

118   <div class="row">
119     <div class="col"><span class="first-column-career-section-2">Business Intelligence Analyst</span></div>
120     <div class="col pt-2">
121       <span class="second-column-career-section-2">
122         FULL TIME | RUNNING 1-10
123       </span>
124     </div>
125     <div class="col pt-2">
126       <span class="last-column-career-section-2">
127         <a href="#"></a>
128       </span>
129     </div>
130   </div>
131   <div class="line-career-section-2 pt-4 pb-4"></div>
132   <div class="row">
133     <div class="col"><span class="first-column-career-section-2">Customer Operation</span></div>
134     <div class="col pt-2">
135       <span class="second-column-career-section-2">
136         FULL TIME | RUNNING 1-10
137       </span>
138     </div>
139     <div class="col pt-2">
140       <span class="last-column-career-section-2">
141         <a href="#"></a>
142       </span>
143     </div>
144   </div>
145   <div class="line-career-section-2 pt-4 pb-4"></div>
146 </div>
147 </div>
148 <div class="line-career-section-2 pt-4 pb-4"></div>
149

```

Figure 14: ottoo.com Career Page Section-2 Code (Continuous)

```

150   <div class="row">
151     <div class="col"><span class="first-column-career-section-2">Software Developer</span></div>
152     <div class="col pt-2">
153       <span class="second-column-career-section-2">
154         FULL TIME | RUNNING 1-10
155       </span>
156     </div>
157     <div class="col pt-2">
158       <span class="last-column-career-section-2">
159         <a href="#"></a>
160       </span>
161     </div>
162   </div>
163   <div class="line-career-section-2 pt-4 pb-4"></div>
164   <div class="row">
165     <div class="col"><span class="first-column-career-section-2">Full Stack Engineer</span></div>
166     <div class="col pt-2">
167       <span class="second-column-career-section-2">
168         FULL TIME | RUNNING 1-10
169       </span>
170     </div>
171     <div class="col pt-2">
172       <span class="last-column-career-section-2">
173         <a href="#"></a>
174       </span>
175     </div>
176   </div>
177   <div class="line-career-section-2 pt-4 pb-4"></div>
178 </div>
179 </div>
180 <div class="line-career-section-2 pt-4 pb-4"></div>
181

```

Figure 15: ottoo.com Career Page Section-2 Code (Continuous)

```

182   <div class="row">
183     <div class="col"><span class="first-column-career-section-2">Business Intelligence Analyst</span></div>
184     <div class="col pt-2">
185       <span class="second-column-career-section-2">
186         FULL TIME | RUNNING 1-10
187       </span>
188     </div>
189     <div class="col pt-2">
190       <span class="last-column-career-section-2">
191         <a href="#"></a>
192       </span>
193     </div>
194   </div>
195   <div class="line-career-section-2 pt-4 pb-4"></div>
196   <div class="row">
197     <div class="col"><span class="first-column-career-section-2">Customer Operation</span></div>
198     <div class="col pt-2">
199       <span class="second-column-career-section-2">
200         FULL TIME | RUNNING 1-10
201       </span>
202     </div>
203     <div class="col pt-2">
204       <span class="last-column-career-section-2">
205         <a href="#"></a>
206       </span>
207     </div>
208   </div>
209   <div class="line-career-section-2 pt-4 pb-4"></div>
210 </div>
211 </div>
212 <div class="line-career-section-2 pt-4 pb-4"></div>
213

```

Figure 16: ottoo.com Career Page Section-2 Code (Continuous)

```

214 <div class="row">
215 <div class="col"><span class="first-column-career-section-2">Software Developer</span></div>
216 <div class="col pt-2">
217 <span class="second-column-career-section-2">
218 <div>FULL TIME | RUNNING 1-10
219 </div>
220 </div>
221 <div class="col pt-2">
222 <span class="last-column-career-section-2">
223 <a href="#"></a>
224 </span>
225 </div>
226 </div>
227 <div class="line-career-section-2 pt-4 px-4"></div>
228 </div>
229 </div>
230 </section>
231 </div>
232 </div>

```

Figure 17: ottoo.com Career Page Section-2 Code (Finished)

```

1268 .ballk-career-section-2 {
1269 width: 100%;
1270 max-width: 1200px;
1271 height: 360px;
1272 color: white;
1273 text-align: center;
1274 }
1275
1276 .altayzi-career-section-2 {
1277 width: 100%;
1278 max-width: 757px auto;
1279 text-align: center;
1280 }
1281
1282 .line-career-section-2 {
1283 margin-bottom: 25px;
1284 border-bottom: 1px solid black;
1285 border-bottom-color: #8888ff;
1286 opacity: 0.1;
1287 color: white;
1288 }
1289
1290 .alt-career-section-2 {
1291 height: auto;
1292 color: white;
1293 text-align: center;
1294 }
1295
1296

```

Figure 18: ottoo.com Career Page Section-2 CSS Code (Continuous)

```

1297 .ilkstir-career-section-2 {
1298 font-size: 50px;
1299 }
1300
1301 .altayzi-career-section-2 {
1302 font-size: 16px;
1303 }
1304
1305 .first-column-career-section-2 {
1306 font-size: 24px;
1307 float: left;
1308 }
1309
1310 .second-column-career-section-2 {
1311 font-size: 14px;
1312 color: #999999;
1313 }
1314
1315 .last-column-career-section-2 {
1316 width: auto;
1317 }
1318

```

Figure 19: ottoo.com Career Page Section-2 CSS Code (Finished)

```

1343 @media only screen and (max-width: 990px) {
1344
1345 .first-column-career-section-2 {
1346 font-size: 18px;
1347 }
1348
1349 .second-column-career-section-2 {
1350 font-size: 12px;
1351 }
1352
1353 .ilkstir-career-section-2 {
1354 font-size: xx-large;
1355 }
1356
1357 .altayzi-career-section-2 {
1358 font-size: large;
1359 }
1360
1361 .img-career-section-2 {
1362 display: block;
1363 margin: 0 auto;
1364 }
1365
1366

```

Figure 20: ottoo.com Career Page Section-2 CSS Code with Media Queries examples