TECHNICAL UNIVERSITY OF MOLDOVA

FACULTY OF COMPUTERS, INFORMATICS AND MICROELECTRONICS

DEPARTMENT OF SOFTWARE ENGINEERING AND AUTOMATION

WEB PROGRAMMING

LABORATORY WORK #1

Learn CSS and HTML

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1 Task

The task for the first laboratory work was:

- Download the design as PSD file and extract the images;

- Update the `.css` and `.html` files to look similar to the design.

- Implement required pages:

  ☑ "Groceries. On the go" section (+4);

  ☑ "Locally sourced" section (+2);

  ☑ "Made simple" section (+2);

  ☑ "FAQ" section (+2);

  ☒ Make the design adaptive for mobile devices (+2).

2 Results

First things first, GitHub repository link: `https://github.com/madalv/pw-labs`. It's private but I added `@alexeisersun` as a collaborator so check your email for the invite.

The "Groceries. On the go" section was definitely the hardest one. Placing all the fruit around the page, the phone screen, and orange zigzag was particularly challenging for me. See the section design implementation in Figure 1.
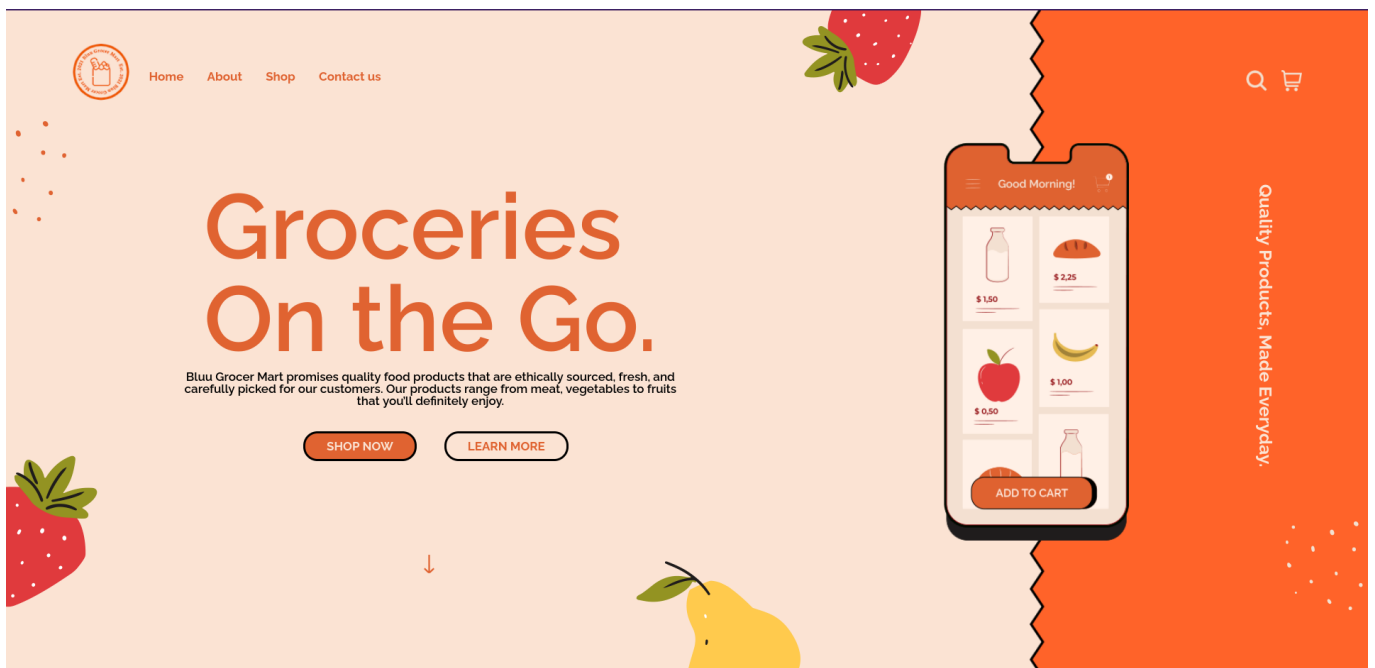

Figure 1: "Groceries. On the go" section

I arranged everything mainly using flexboxes [2]. Example of using a flexbox:

```
1   .groceries .container .content {
2       font-family: 'Raleway';
3       display: flex;
4       flex-direction: column;
5       align-items: center;
6       max-width: 100vh;
7   }
```

Listing 1: Using flexboxes

The "Locally sourced" section was one of the easier ones. Just needed a flexbox container to arrange all the text on the page. See the section design implementation in Figure 2. As you can see in Listing 2, the HTML code is on the lighter side.

Figure 2: "Locally sourced" section

```
1    <!-- ... fruit element divs ... -->
2
3      <div class="text">
4        <div class="container">
5          <h4>OUR PROMISE</h4>
6          <h1>Locally Sourced <br /> Products.</h1>
7          <p>Bluu Grocer Mart promises quality food products that are ethically sourced,
8            fresh, and carefully picked for our customers. Our products range from meat,
9            vegetables to fruits that you'll definitely enjoy.</p>
10         <button>LEARN MORE</button>
11       </div>
12     </div>
13
14   </div>
```
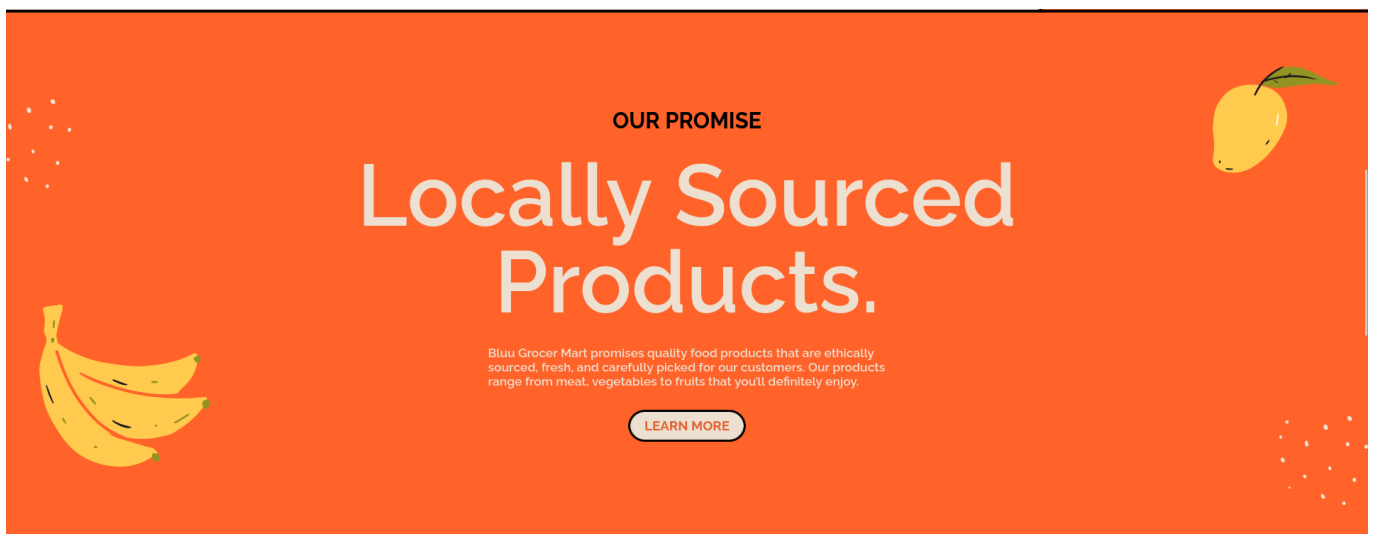
Listing 2: Code for the "Locally" page

The section shown in Figure 3 was somewhat challenging, but it was nothing a good ol' flexbox couldn't fix. I liked styling the products' rectangles and description, as you can see in Listing 3

Figure 3: "Made simple" section

```
1    <div class="product">
2      <div class="rect pear">
3        <img src="./images/simple-pear.png" alt="pear">
4      </div>
5      <div class="description">
6          <!-- ... text elements ... -->
7      </div>
8    </div>
```
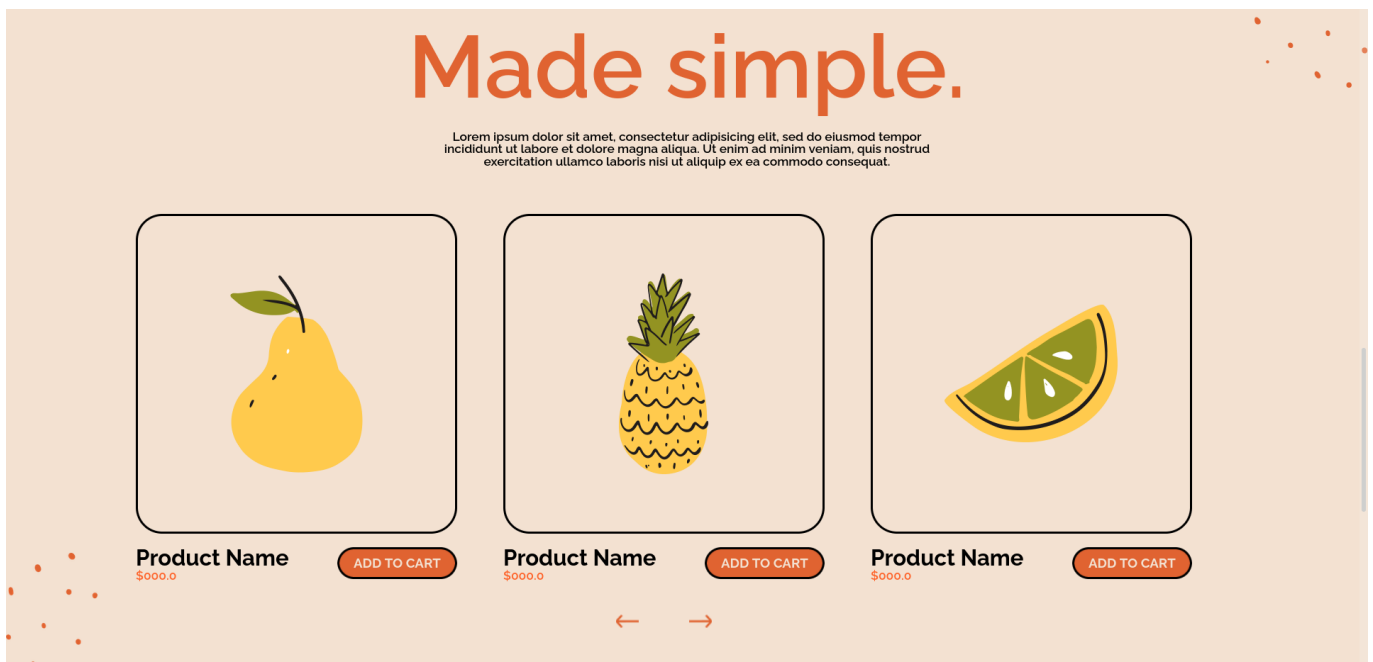
```
1   .made-simple .product-container .rect {
2       width: 48.4vh;
3       height: 48.26vh;
4       border-radius: 3.86vh;
5       border: 3px solid #000000;
6       background-color: #f3e1d1;
7       display: flex;
8       justify-content: center;
9       align-items: center;
10  }
```

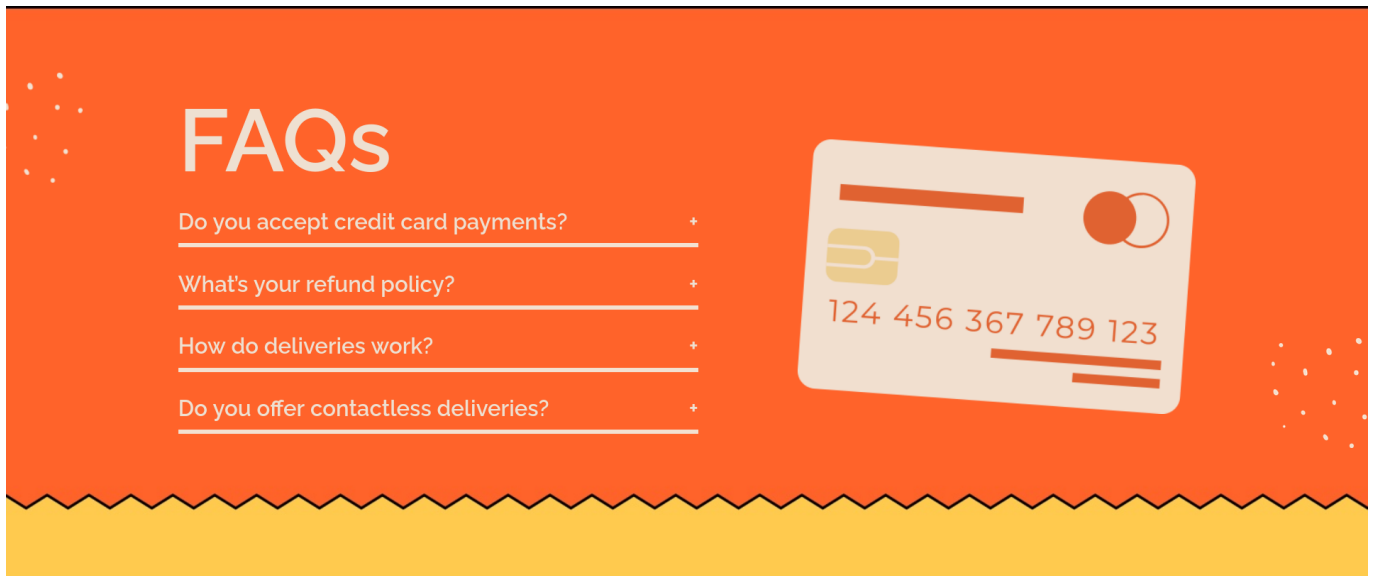Listing 3: "Made simple" section product

Figure 4: "FAQ" section

The "FAQ" section in Figure 4 was not very difficult. The only somewhat interesting task was to style the question and the line under it, but again, nothing a flexbox can't deal with. The PSD extractor was kind enough to offer me the entire backround so I didn't have to deal with arranging the yellow zigzag separately.

3 Conclusion

After implementing the task, I've remembered the basics of CSS and HTML, how to use flexboxes, and other painful stuff. However, this laboratory work made me recall a lot of useful little tricks for arranging elements on a page, importing fonts from Google Fonts, as well as working with grids/flexboxes, so I don't doubt it'll help me eventually down the line.

References

[1] A Complete Guide to Flexbox, *https://css-tricks.com/snippets/css/a-guide-to-flexbox/*

Accessed on February 20, 2023.

[2] GitHub repository, *https://github.com/madalv/pw-labs*