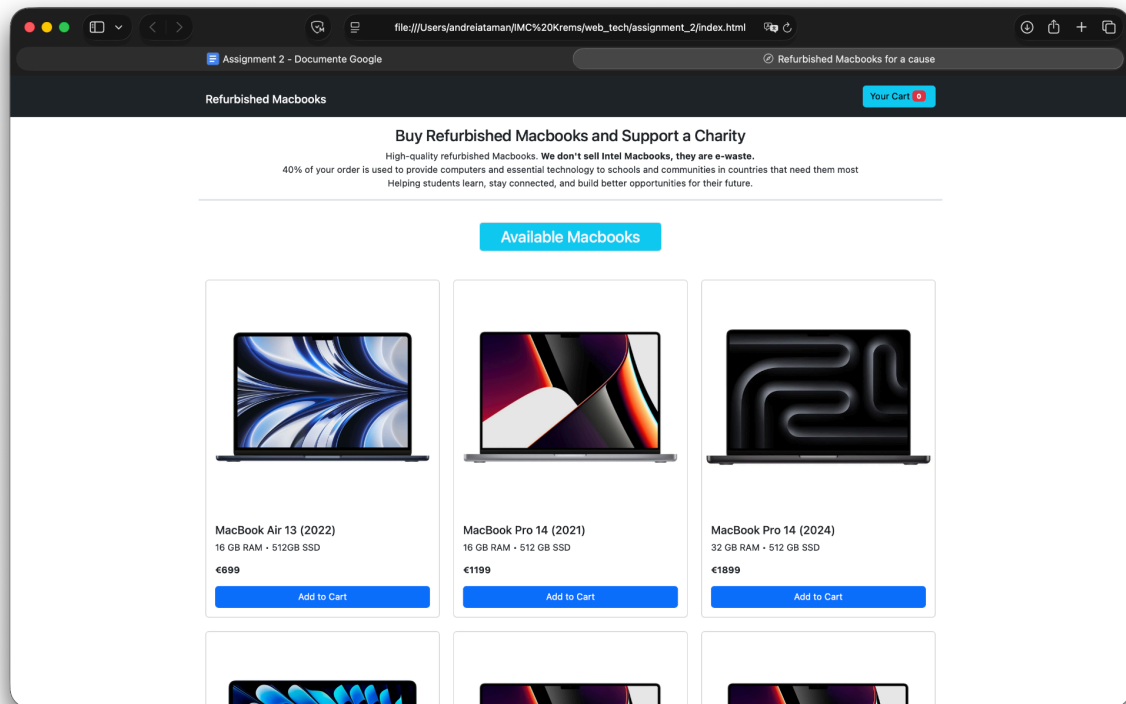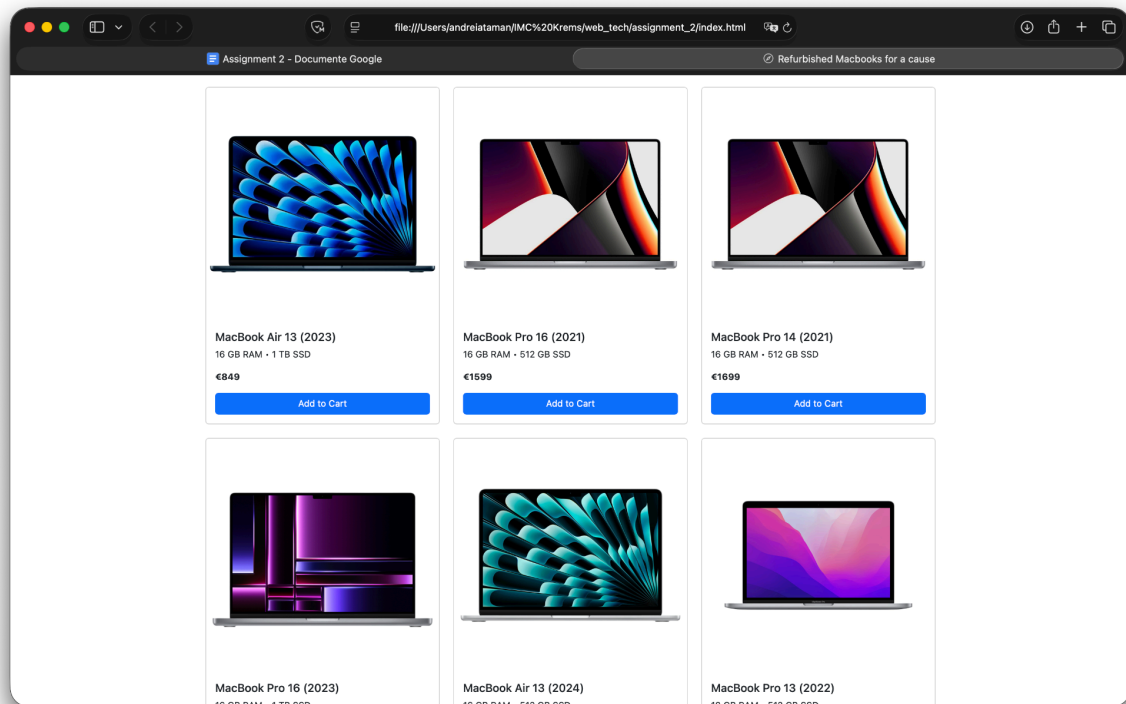# Assignment 2 Documentation
Andrei Ataman

- This is the home page
- The website is for a store that sells refurbished macbooks and donates a percentage of the profits to charities that provide equipment to schools/districts so that the youth have access to digital education.
- For the navbar I used the navbar component provided by bootstrap
- There are 2 elements in the navbar, a div that contains the name of the store and on the far right a button that also has badge that displays the number of elements in the cart
- For the "Buy refurbished Macbooks and Support a Charity" text I used a heading and for the text below a paragraph and I centered them by applying text-center in the div that wraps them

Sources:
Navbar · Bootstrap v5.3
Buttons · Bootstrap v5.3
Badges · Bootstrap v5.3

- Products are displayed on screen using the card component provided by bootstrap
- For the products I created an array in JS that contains the path to the image, description, price and name of the product. I loop through the elements with a for loop and append the card to the inner html of the div
- The "Add to Cart" button has an event listener that listens for clicks and also receives the product id by using the data attribute in html
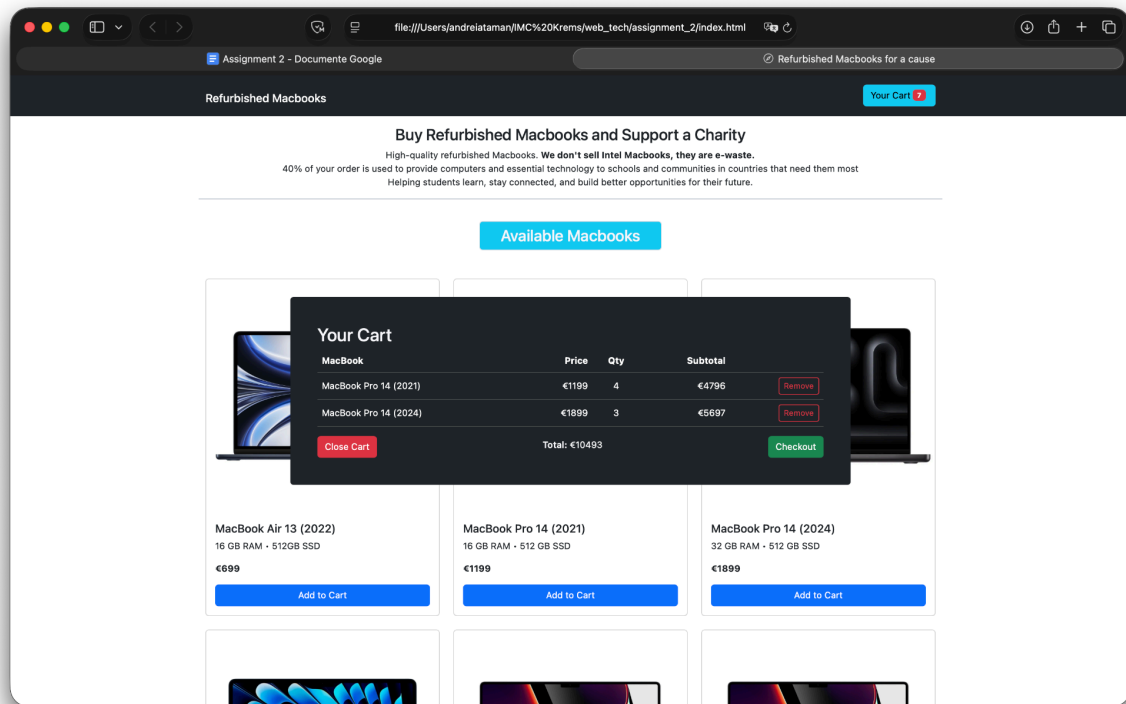
Sources:
    [Cards · Bootstrap v5.3](#)

```javascript
function renderProducts() {
  const row = document.getElementById("products-row");
  row.innerHTML = "";

  for (let product of products) {
    row.innerHTML += `
    <div class ="col-md-4 mb-4 my-auto">
        <div class="card">
        <img src="${product.image}" class="card-img-top">
        <div class = "card-body d-flex flex-column">
            <h5 class="card-title">${product.name}</h5>
            <p class="card-text">${product.specs}</p>
            <p class="fw-bold mb-3">€${product.price}</p>
            <button class = "btn btn-primary add-to-cart-btn" data-product-id = "${product.id}">Add to Cart</button>
        </div>
        </div>
    </div>
    `;
  }
}
```

```javascript
const products = [
  {
    id : 1,
    name : "MacBook Air 13 (2022)",
    price : 699,
    specs : "16 GB RAM • 512GB SSD",
    image : "img/1.jpg"
  },
  {
    id : 2,
    name : "MacBook Pro 14 (2021)",
    price : 1199,
    specs : "16 GB RAM • 512 GB SSD",
    image : "img/2.jpg"
  },
  {
    id : 3,
    name : "MacBook Pro 14 (2024)",
    price : 1899,
    specs : "32 GB RAM • 512 GB SSD",
    image : "img/3.jpg"
  },
```
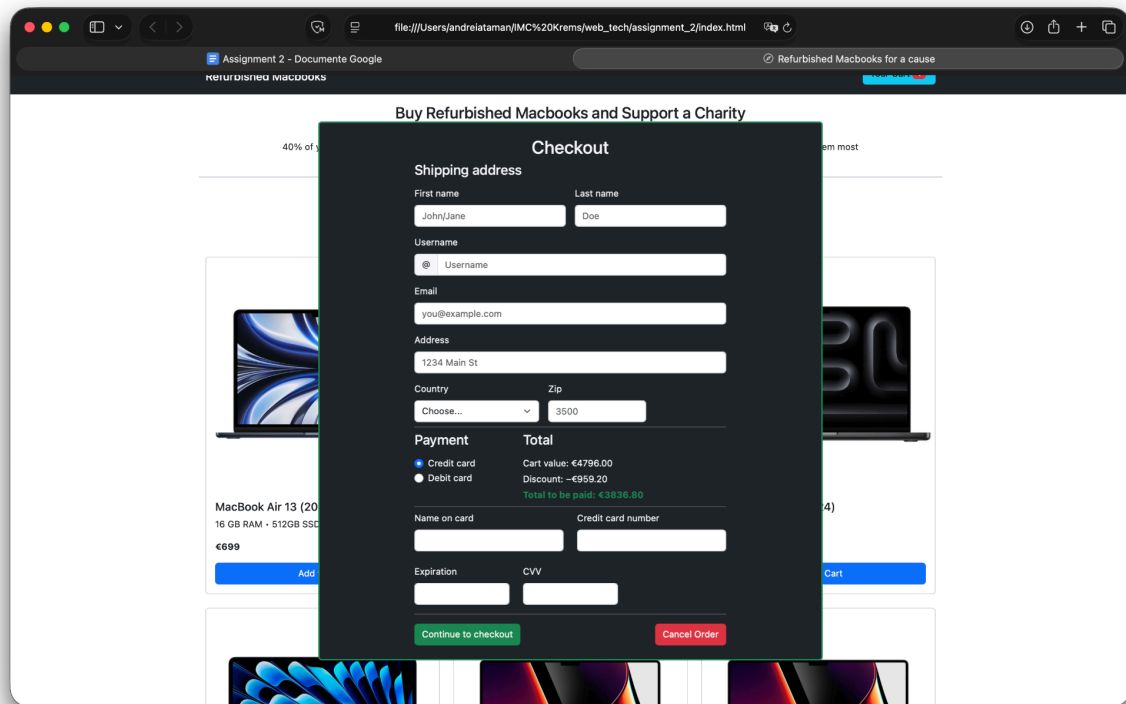
- This is the cart. It's a div with a fixed position on the screen
- "The your cart" is just a heading
- After pressing the "Add to Cart" button the elements are appended to a new array called cart. I then loop through the new array and append the elements to the table as table rows
- The elements are displayed by appending them to a table as table elements and the first row of the table is just basic information like price, quantity and subtotal
- The remove button removes 1 from the quantity of the product in the Cart, if the quantity reaches 0 the item is removed from the cart. This is done by sending the id of the product to the removeItem() function, then finding the index and decrementing the quantity by 1 at that index
- There are 3 elements at the bottom of the div. The "Close Cart" button closes the cart allowing for further shopping
- The text in the middle display the total cart value
- And the "Checkout" button takes you to the checkout form
- The 3 elements were wrapped in a div and a display flex and justify-content-between was applied to it
- The table was made responsive by using the "table-responsive" class from bootstrap

Sources:
Flex · Bootstrap v5.3
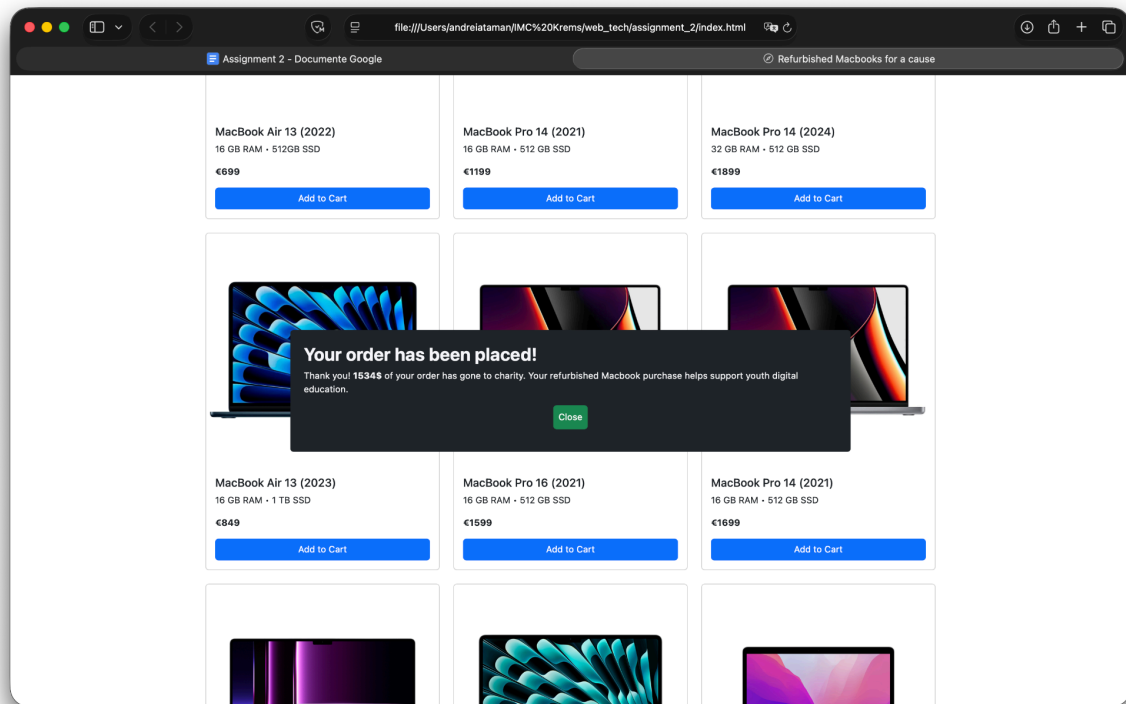Tables · Bootstrap v5.3

- This is the checkout form
- Inspiration was taken from the bootstrap examples that also included the JS for the form validation
- The example used an older version of bootstrap but that didn't seem to break things
- Because I added more than 3 items to the cart a 20% discount is applied
- If proper input is provided and the user clicks the "continue to checkout" button, the page goes to the confirmation section
- If the "Cancel Order" button is pressed the website goes to its initial state, the function linked to that button hides the cart and the checkout section and also clears the cart array and resets global variables
- The text for the "Cart Value", "Discount" and "Total to be paid" are just divs and I modify their innerHTML in the JS and add the global variables. I had a lot of trouble with NaN errors and Undefined values because variables are weakly typed. "Casting" a variable in Number() didn't always work

Sources:
Validation · Bootstrap v5.3
Forms · Bootstrap v5.3
Examples · Bootstrap

- This is the confirmation section
- As displayed in the confirmation message, 40% of the order is donated to charity, this is possible because the macbooks are stolen but I'd rather not specify that on the website :)
- Clicking the "Close" button resets the website the same as how the "Cancel Order" on the checkout form works