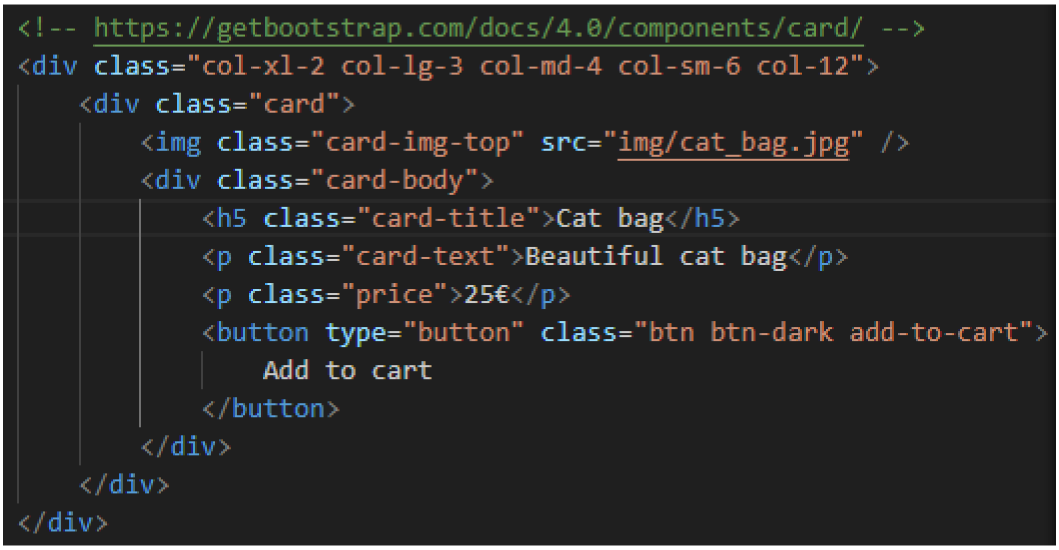
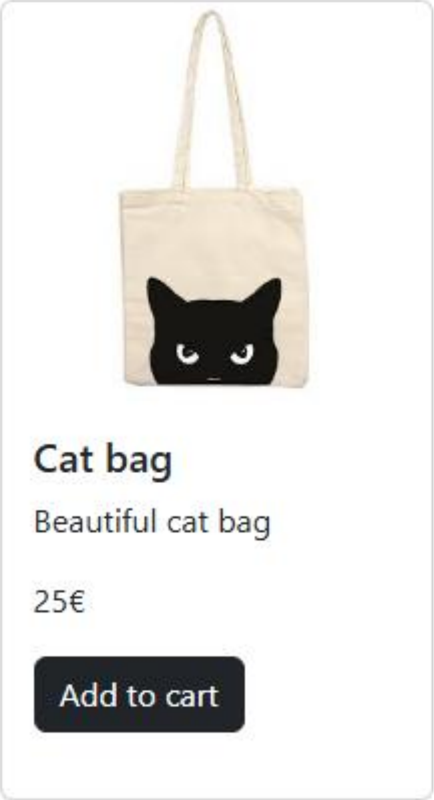
Bootstrap components:

1. Cards



```html
<!-- https://getbootstrap.com/docs/4.0/components/card/ -->
<div class="col-xl-2 col-lg-3 col-md-4 col-sm-6 col-12">
    <div class="card">
        <img class="card-img-top" src="img/cat_bag.jpg" />
        <div class="card-body">
            <h5 class="card-title">Cat bag</h5>
            <p class="card-text">Beautiful cat bag</p>
            <p class="price">25€</p>
            <button type="button" class="btn btn-dark add-to-cart">
                Add to cart
            </button>
        </div>
    </div>
</div>
```

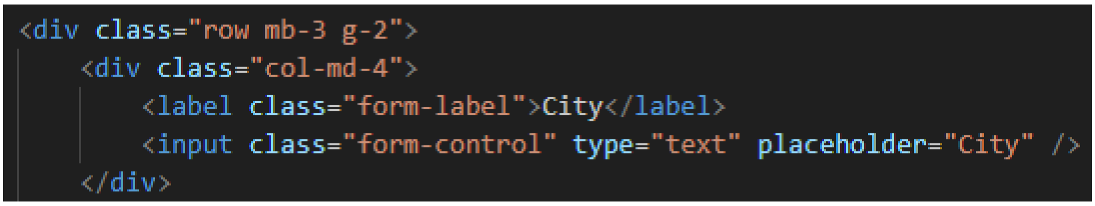


Cat bag

Beautiful cat bag

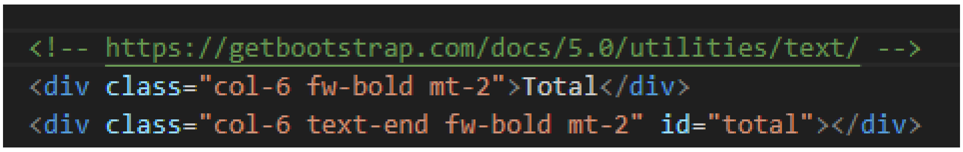
25€

2. Layout gutters

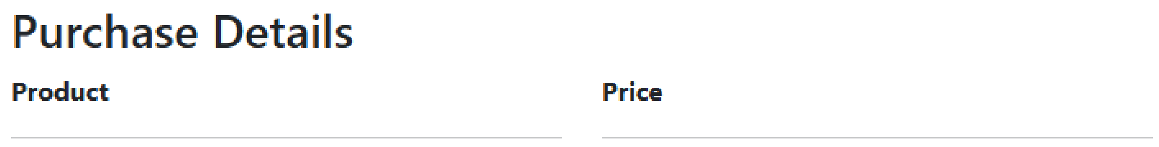


```html
<div class="row mb-3 g-2">
    <div class="col-md-4">
        <label class="form-label">City</label>
        <input class="form-control" type="text" placeholder="City" />
    </div>
```

3.Utility text



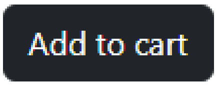
```
<!-- https://getbootstrap.com/docs/5.0/utilities/text/ -->
<div class="col-6 fw-bold mt-2">Total</div>
<div class="col-6 text-end fw-bold mt-2" id="total"></div>
```

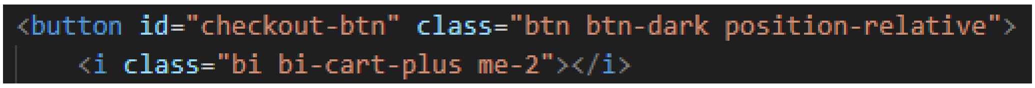


Purchase Details

Product	Price

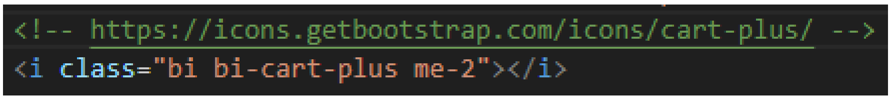
4.



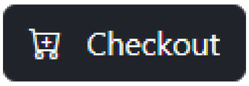


```
<button id="checkout-btn" class="btn btn-dark position-relative">
    <i class="bi bi-cart-plus me-2"></i>
```

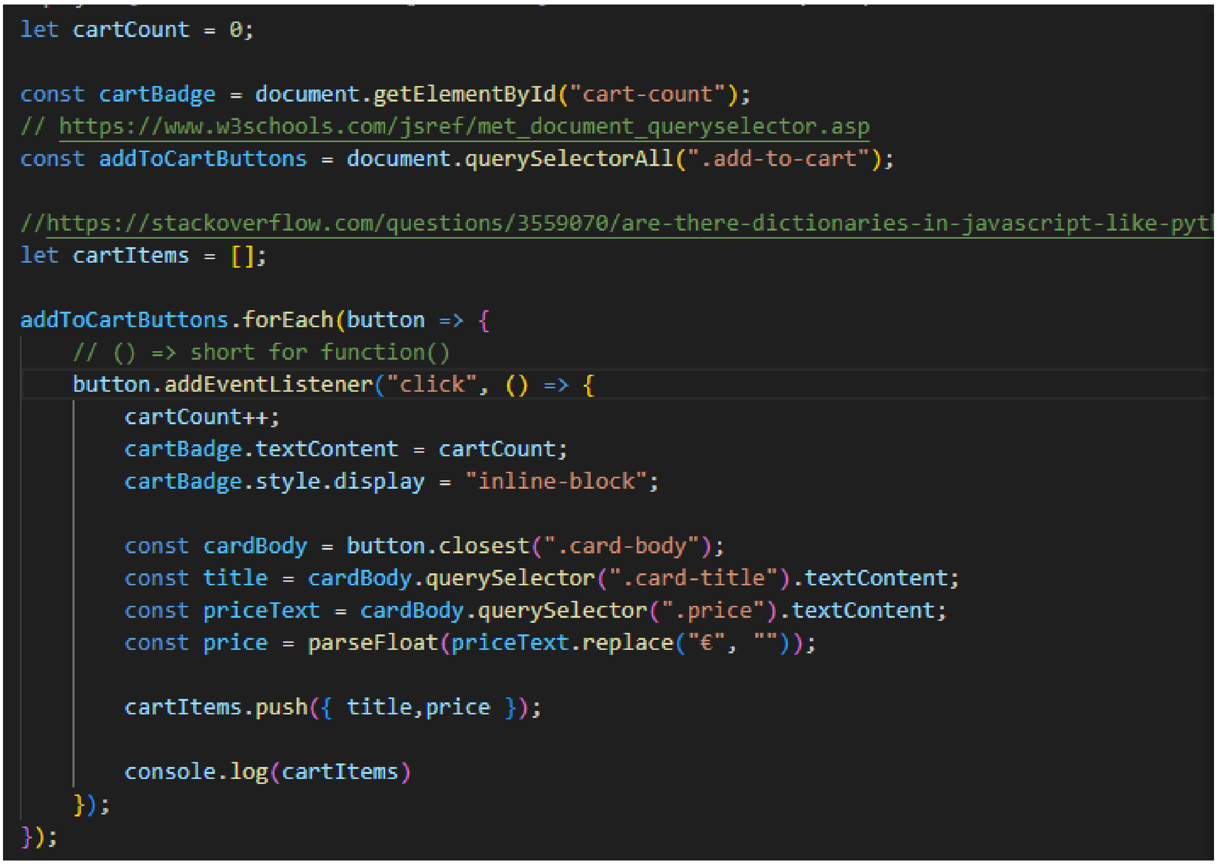
5.



```
<!-- https://icons.getbootstrap.com/icons/cart-plus/ -->
<i class="bi bi-cart-plus me-2"></i>
```

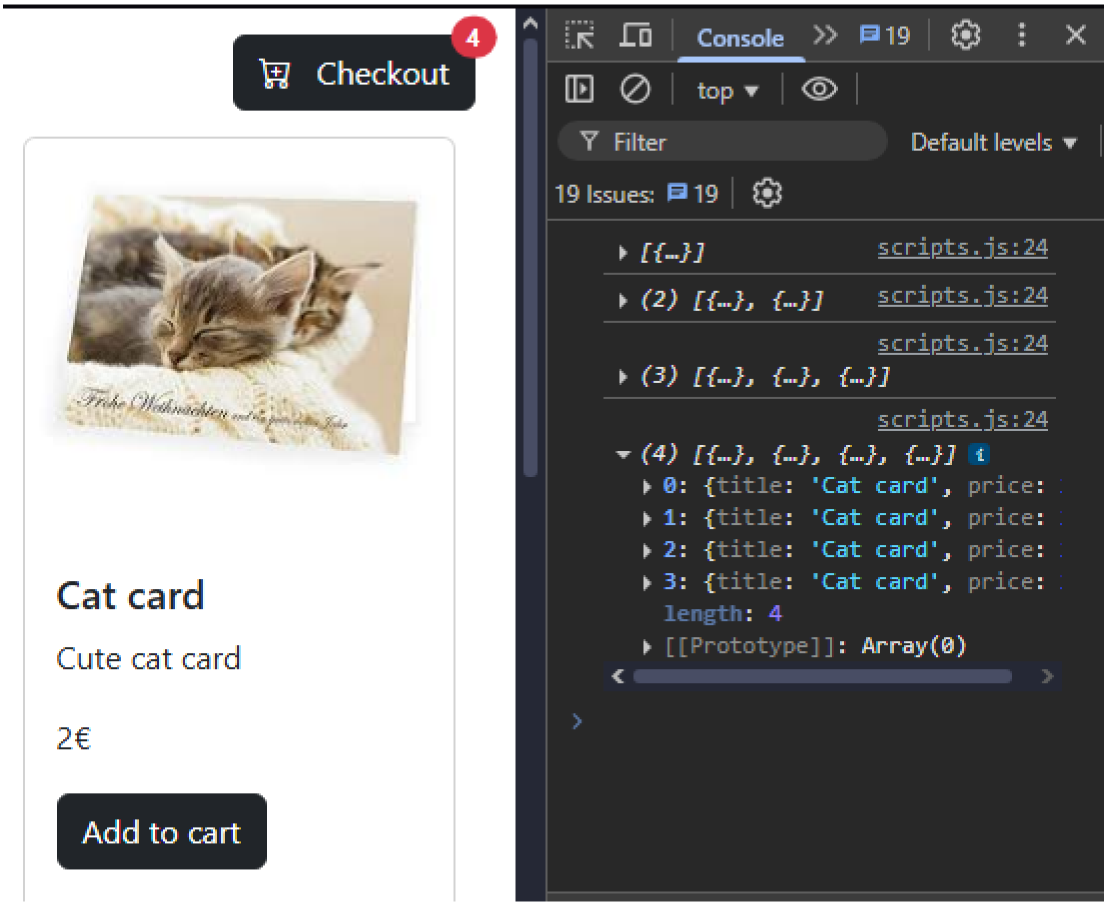


Java-Script code explanation:

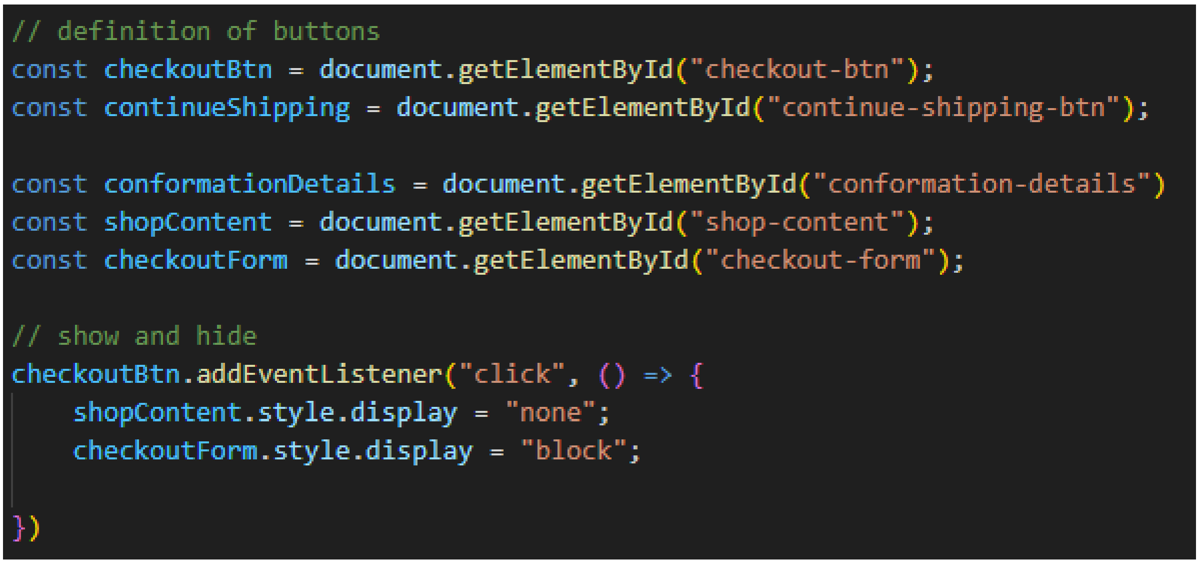


```
let cartCount = 0;

const cartBadge = document.getElementById("cart-count");
// https://www.w3schools.com/jsref/met_document_queryselector.asp
const addToCartButtons = document.querySelectorAll(".add-to-cart");

//https://stackoverflow.com/questions/3559070/are-there-dictionaries-in-javascript-like-pyt
let cartItems = [];

addToCartButtons.forEach(button => {
    // () => short for function()
    button.addEventListener("click", () => {
        cartCount++;
        cartBadge.textContent = cartCount;
        cartBadge.style.display = "inline-block";

        const cardBody = button.closest(".card-body");
        const title = cardBody.querySelector(".card-title").textContent;
        const priceText = cardBody.querySelector(".price").textContent;
        const price = parseFloat(priceText.replace("€", ""));

        cartItems.push({ title,price });

        console.log(cartItems)
    });
});
```

The foreach loop counts each element where the add to cart button is pressed -> and saves its title and price to the cartItem dictionary.



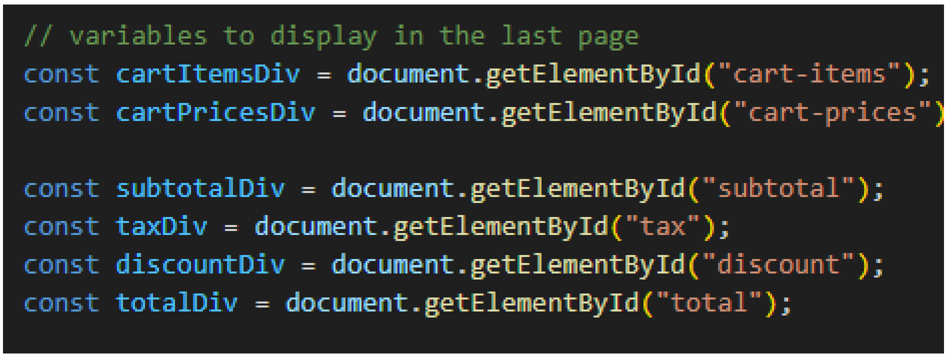
```
▸ [{…}]                                      scripts.js:24
▸ (2) [{…}, {…}]                             scripts.js:24
                                             scripts.js:24
▸ (3) [{…}, {…}, {…}]
                                             scripts.js:24
▾ (4) [{…}, {…}, {…}, {…}] i
  ▸ 0: {title: 'Cat card', price:
  ▸ 1: {title: 'Cat card', price:
  ▸ 2: {title: 'Cat card', price:
  ▸ 3: {title: 'Cat card', price:
    length: 4
  ▸ [[Prototype]]: Array(0)
```



```
// definition of buttons
const checkoutBtn = document.getElementById("checkout-btn");
const continueShipping = document.getElementById("continue-shipping-btn");

const conformationDetails = document.getElementById("conformation-details")
const shopContent = document.getElementById("shop-content");
const checkoutForm = document.getElementById("checkout-form");

// show and hide
checkoutBtn.addEventListener("click", () => {
    shopContent.style.display = "none";
    checkoutForm.style.display = "block";

})
```

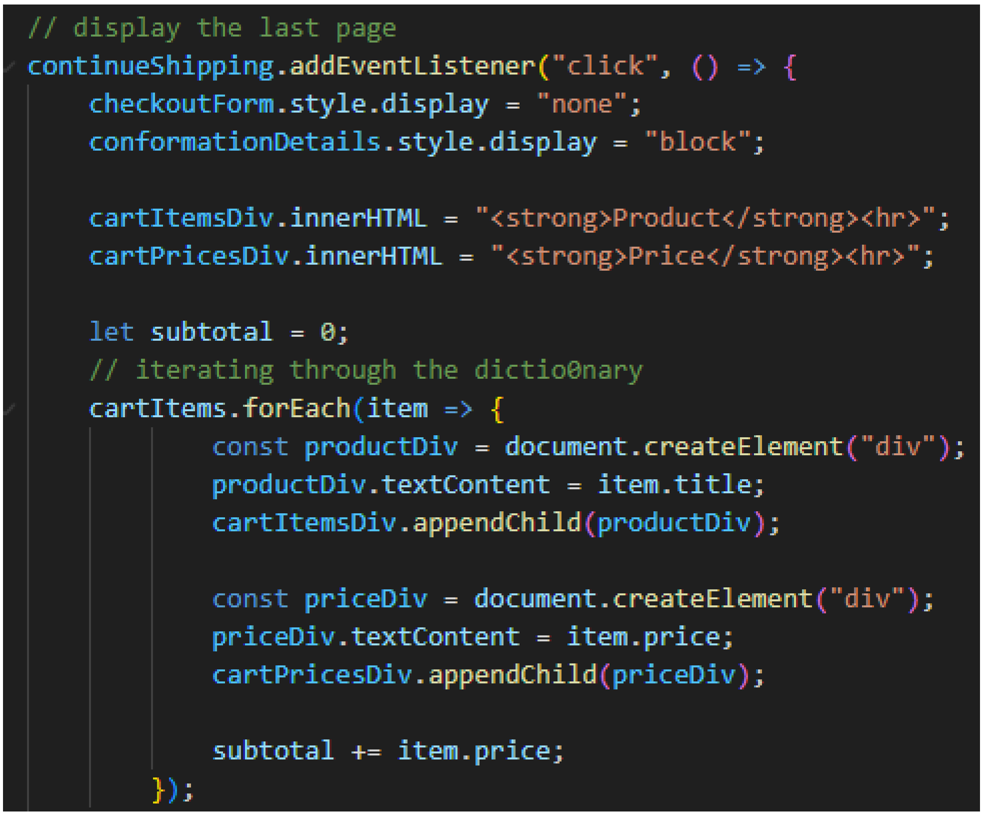
here I define all the buttons that I need and the divs of the content of the different pages.

At first if we press the checkout button, we will hide the shop content and show the checkout form.



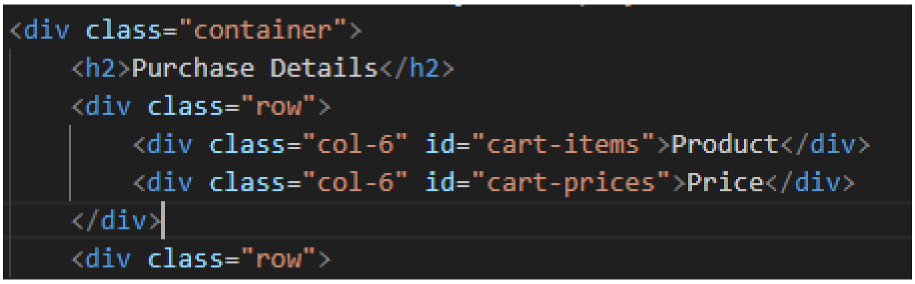
```
// variables to display in the last page
const cartItemsDiv = document.getElementById("cart-items");
const cartPricesDiv = document.getElementById("cart-prices")

const subtotalDiv = document.getElementById("subtotal");
const taxDiv = document.getElementById("tax");
const discountDiv = document.getElementById("discount");
const totalDiv = document.getElementById("total");
```

Here we define more variables, which we will need later to show the whole calculations.



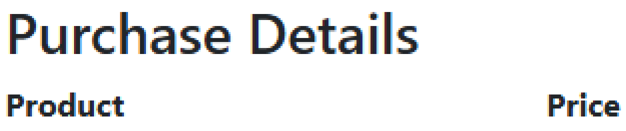
```
// display the last page
continueShipping.addEventListener("click", () => {
    checkoutForm.style.display = "none";
    conformationDetails.style.display = "block";

    cartItemsDiv.innerHTML = "<strong>Product</strong><hr>";
    cartPricesDiv.innerHTML = "<strong>Price</strong><hr>";

    let subtotal = 0;
    // iterating through the dictio0nary
    cartItems.forEach(item => {
            const productDiv = document.createElement("div");
            productDiv.textContent = item.title;
            cartItemsDiv.appendChild(productDiv);

            const priceDiv = document.createElement("div");
            priceDiv.textContent = item.price;
            cartPricesDiv.appendChild(priceDiv);

            subtotal += item.price;
        });
```

Here we start by showing the conformation details by hiding the checkout form and displaying the conformation details.



```
<div class="container">
    <h2>Purchase Details</h2>
    <div class="row">
        <div class="col-6" id="cart-items">Product</div>
        <div class="col-6" id="cart-prices">Price</div>
    </div>
    <div class="row">
```

Then we will change the product and price text to bold.

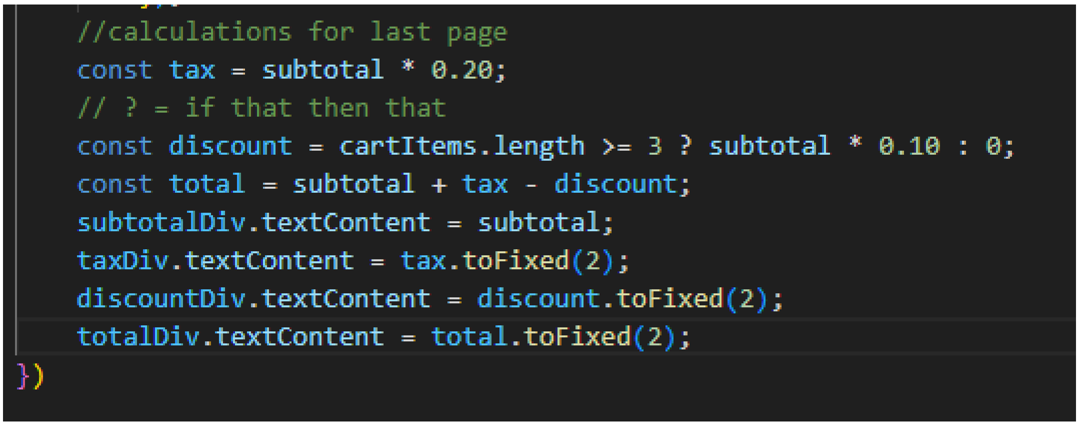


Purchase Details

Product	**Price**

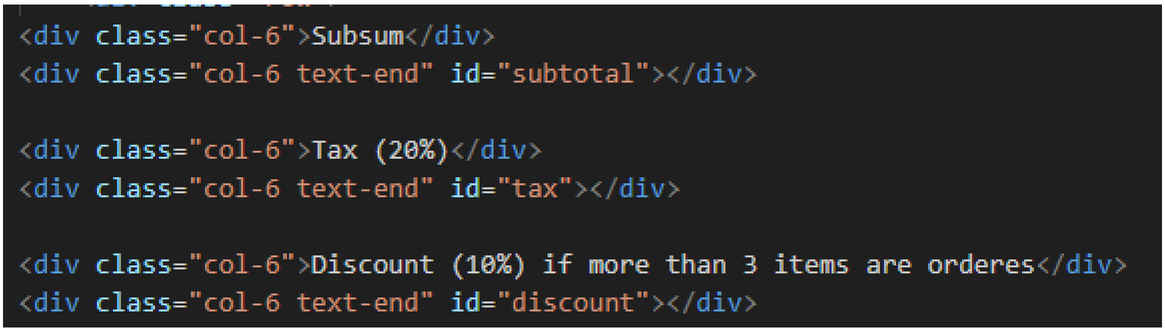
In the next foreach loop, we add for each element in the dictionary a new entry to show everything, what we have in our cart.

With the subtotal variable we add together the prices to calculate with them afterwards.

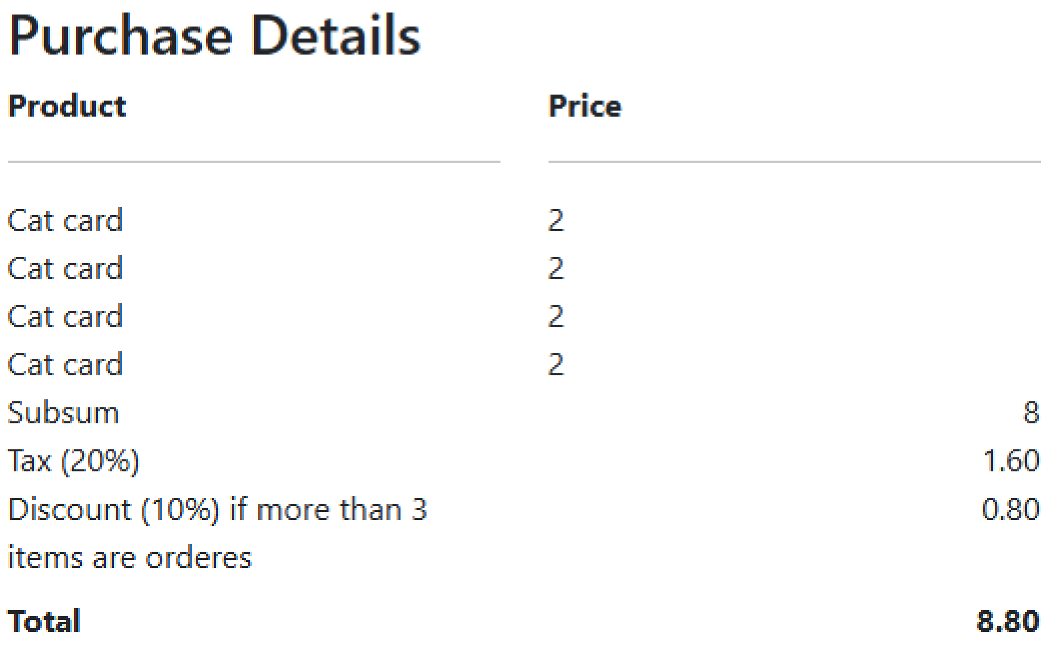


```
    //calculations for last page
    const tax = subtotal * 0.20;
    // ? = if that then that
    const discount = cartItems.length >= 3 ? subtotal * 0.10 : 0;
    const total = subtotal + tax - discount;
    subtotalDiv.textContent = subtotal;
    taxDiv.textContent = tax.toFixed(2);
    discountDiv.textContent = discount.toFixed(2);
    totalDiv.textContent = total.toFixed(2);
})
```

Here we calculate with the subtotal variable and then showing them on the last page. See in the next picture:



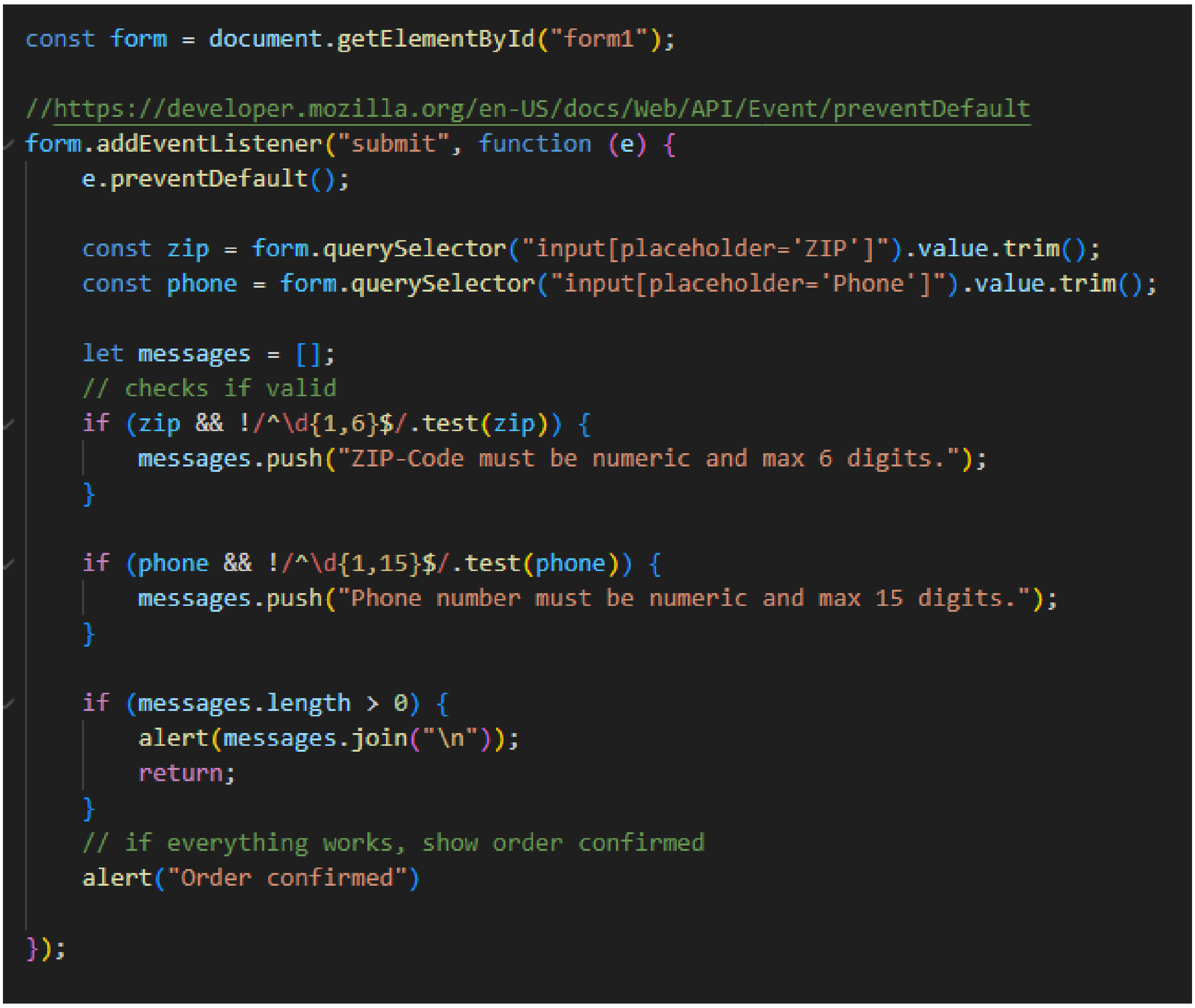
```
<div class="col-6">Subsum</div>
<div class="col-6 text-end" id="subtotal"></div>

<div class="col-6">Tax (20%)</div>
<div class="col-6 text-end" id="tax"></div>

<div class="col-6">Discount (10%) if more than 3 items are orderes</div>
<div class="col-6 text-end" id="discount"></div>
```



Purchase Details

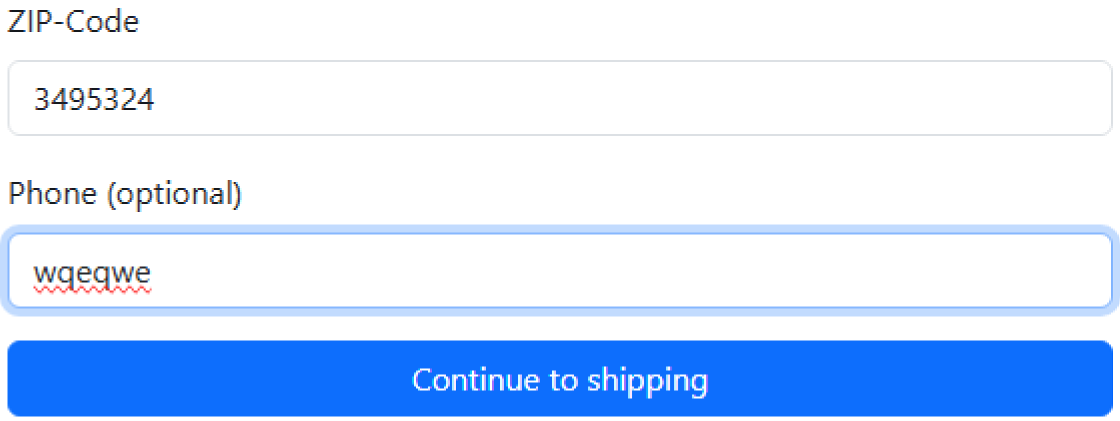
Product	**Price**
Cat card	2
Cat card	2
Cat card	2
Cat card	2
Subsum	8
Tax (20%)	1.60
Discount (10%) if more than 3 items are orderes	0.80
Total	**8.80**

In the last picture we see the check of the data if everything is entered correctly:



```
const form = document.getElementById("form1");

//https://developer.mozilla.org/en-US/docs/Web/API/Event/preventDefault
form.addEventListener("submit", function (e) {
    e.preventDefault();

    const zip = form.querySelector("input[placeholder='ZIP']").value.trim();
    const phone = form.querySelector("input[placeholder='Phone']").value.trim();

    let messages = [];
    // checks if valid
    if (zip && !/^\d{1,6}$/.test(zip)) {
        messages.push("ZIP-Code must be numeric and max 6 digits.");
    }

    if (phone && !/^\d{1,15}$/.test(phone)) {
        messages.push("Phone number must be numeric and max 15 digits.");
    }

    if (messages.length > 0) {
        alert(messages.join("\n"));
        return;
    }
    // if everything works, show order confirmed
    alert("Order confirmed")

});
```

At first we get the form via its id and then, if the submit button is pressed, the code checks for the entered zip and phone number. Here an example:

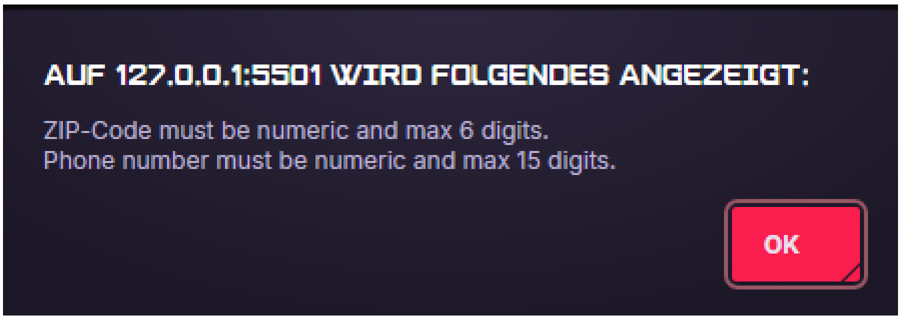


ZIP-Code

3495324

Phone (optional)

wqeqwe



AUF 127.0.0.1:5501 WIRD FOLGENDES ANGEZEIGT:

ZIP-Code must be numeric and max 6 digits.
Phone number must be numeric and max 15 digits.