

# Documentation for Assignment 2

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## The website allows users to:

- View a menu with different pizza
- Add Pizza to the shopping cart
- Increase the quantity when the same pizza is added again
- Show the calculated total, discount, tax
- Fill out a checkout form
- Get a confirmation message after ordering

## What was used for the Assignment:

### • HTML

HTML was used to structure the website. It defines the layout of the page, including the menu cards, shopping cart table, checkout form, and confirmation message.

HTML reference used:

<https://www.w3schools.com/html>

### • CSS & Bootstrap

Bootstrap 5 was used for styling and layout because it makes it easier to create responsive designs. I used Bootstrap components such as cards, grid layout, buttons, offcanvas, modal, and alerts.

Bootstrap references used:

- Grid system: <https://getbootstrap.com/docs/5.3/layout/grid/>
- Cards: <https://getbootstrap.com/docs/5.3/components/card/>
- Offcanvas (shopping cart): <https://getbootstrap.com/docs/5.3/components/offcanvas/>
- Modal (checkout): <https://getbootstrap.com/docs/5.3/components/modal/>
- Alerts (confirmation): <https://getbootstrap.com/docs/5.3/components/alerts/>

### • JavaScript

JavaScript was used to make the website interactive. It handles adding items to the cart, updating quantities, calculating totals, applying discounts, validating the form, and showing the confirmation message.

JavaScript references used:

- Functions: [https://www.w3schools.com/js/js\\_functions.asp](https://www.w3schools.com/js/js_functions.asp)
- Arrays: [https://www.w3schools.com/js/js\\_arrays.asp](https://www.w3schools.com/js/js_arrays.asp)
- DOM manipulation: [https://www.w3schools.com/js/js\\_htmldom.asp](https://www.w3schools.com/js/js_htmldom.asp)
- Event listeners: [https://www.w3schools.com/js/js\\_events.asp](https://www.w3schools.com/js/js_events.asp)

### • Sources

Bootstrap Documentation: <https://getbootstrap.com/docs/5.3/>

W3Schools JavaScript Tutorial: <https://www.w3schools.com/js/>

W3Schools HTML Tutorial: <https://www.w3schools.com/html/>

## Explanation:

- Shopping Cart

Each pizza has an 'Add to Cart' button. When the button is clicked, JavaScript checks if the item already exists in the cart. If it does, the quantity is increased. Otherwise, a new item is added. The cart is displayed using a Bootstrap Offcanvas component.

- Discount and Tax Calculation

A discount system was implemented in JavaScript. If three or more items are added to the cart, a 10% discount is applied to the net total. After the discount, a 20% tax is calculated. The final gross total is then displayed.

- Checkout and Confirmation

The checkout form is shown using a Bootstrap Modal. HTML validation ensures that all required fields are filled in correctly. After submitting the form, the modal and shopping cart close, and a confirmation message is displayed using a Bootstrap Alert.

## Screenshots of the Website:

**Restaurant Menu**

**Pizza day**  
Buy a Pizza for a good cost. For every Pizza bought, we will donate the Money to the Charity Refuge, Refuge is an Organisation for Woman and Children against domestic violence. Help now and buy a Pizza to help Woman and Children.

Margherita	Salami	Capricciosa
Tomato Sauce, extra Mozzarella €12 <a href="#">Add to Cart</a>	Tomato Sauce, extra Mozzarella, Beef-Chicken Salami €15 <a href="#">Add to Cart</a>	Tomato Sauce, Mozzarella, Ham, Champignons €15 <a href="#">Add to Cart</a>
Tomato Sauce, Mozzarella, Ham, Pineapple €15 <a href="#">Add to Cart</a>	White Cremefine, Mozzarella, Grilled Chicken, Red Onions, Bacon €15 <a href="#">Add to Cart</a>	White Cremefine, Mozzarella, Pepperoni, Shepherd's Cheese, Blue Cheese €15 <a href="#">Add to Cart</a>

[View Cart](#)

Thank you for your donation!  
Your order has been placed successfully.  
Total donated: 48.60 €

**Checkout**

First Name

Last Name

Address

ZIP Code

City

Phone Number

[Cancel](#) [Order](#)

**Shopping Cart**

Item	Quantity	Price (€)	Total (€)
Carbonara	1	15.00	15.00
Pepperonchée	1	15.00	15.00
Hawaii	1	15.00	15.00

**Totals:**

Netto: 45.00 €

Discount: 4.50 €

Tax (20%): 8.10 €

Brutto: 48.60 €

[Checkout](#)