**1. Title Page**

**Project Title:** *Responsive Restaurant Menu Website – “🍽️ TRUFFLES”*

**Submitted By:**

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**Course:** UI/UX Design Fundamentals  
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**Date of Submission:** 13/08/2025

**2. Abstract**

This project is a responsive **Restaurant Menu Website** for "🍽️ TRUFFLES" built using HTML, CSS, and basic JavaScript. The website displays different categories of dishes such as *Starters*, *Main Course*, *Desserts*, and *Chef’s Special*. Users can browse dishes, view prices, and add items to a cart counter.

The project aims to create a clean, visually appealing, and mobile-friendly menu layout with smooth navigation. Sticky navigation, hover effects, and a responsive grid layout ensure accessibility on all devices. JavaScript enables a live cart counter, adding interactivity without backend integration.

**3. Objectives**

* Design a **user-friendly online restaurant menu** that adapts to various screen sizes.
* Implement **smooth navigation** between food categories.
* Add **interactive cart functionality** using JavaScript.
* Maintain **aesthetic appeal** through consistent color schemes, typography, and imagery.

**4. Scope of the Project**

* Focused on **front-end development only** (no backend order system).
* No payment gateway or database integration.
* Designed for **desktop, tablet, and mobile devices**.
* Uses **pure HTML, CSS, and JavaScript** without external frameworks.
* Suitable for small cafes/restaurants to showcase their menu.

**5. Tools & Technologies Used**

| Tool/Technology | Purpose |
| --- | --- |
| HTML | Markup and content structure |
| CSS | Styling, layout, and responsiveness |
| VS Code | Code editing |
| Chrome DevTools | Testing & debugging |

**6. HTML Structure Overview**

* Used semantic tags: <header>, <nav>, <section>, <h1>, <h2>, <p>
* Navigation bar with anchor links for category scrolling.
* Menu items arranged in **grid layout** with image, name, and price.
* Sticky navigation bar for easy access.
* Button for **"Place Order"** fixed at bottom right.

**7. CSS Styling Strategy**

* **External CSS file** for styling (menu.css).
* Organized using comments for clarity.
* Techniques used:
  + **Flexbox** for navbar alignment.
  + **CSS Grid** for menu layout.
  + **Media Queries** for responsiveness.
  + **Hover effects** for interaction.
  + **Sticky navbar** for constant visibility.

**8. Key Features**

| **Feature** | **Description** |
| --- | --- |
| Responsive Design | Adjusts layout for all screen sizes |
| Sticky Navbar | Always visible while scrolling |
| Menu Grid | Grid layout for dishes with images and prices |
| Interactive Cart | JavaScript updates cart count on dish click |
| Smooth Navigation | Scrolls to menu sections via nav links |
| Hover Effects | Zoom and shadow effects on dish cards |

**9. Challenges Faced & Solutions**

| **Challenge** | **Solution** |
| --- | --- |
| Navbar overlapping on small screens | Used media queries to stack items |
| Maintaining image sizes | Used object-fit: cover in CSS |

**10. Outcome**

* Developed a **fully responsive restaurant menu**.
* Implemented an **interactive cart counter** without backend.
* Achieved a **clean, engaging layout** with color consistency.
* Improved understanding of **JavaScript DOM manipulation**.

**11. Future Enhancements**

* Add **backend integration** to process orders.
* Implement **search & filter** for dishes.
* Enable **online payment** integration.
* Add **user login system** for personalized orders.
* Dark mode theme toggle.

**12. Conclusion**

This project provided practical experience in **responsive web design** using HTML, CSS, and JavaScript.  
I learned how to use **Flexbox, Grid, and Media Queries** to create adaptive layouts.  
Implementing the cart counter enhanced my **JavaScript event handling** skills.  
Overall, the project strengthened my **front-end development abilities** and UI/UX design understanding.

**13. References**

* Chrome
* Figma









