

Melt House - Smart Restaurant Menu Chooser

PROJECT REPORT

Course: B.Tech CSE AI ML Section-B

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Overview

A web-based interactive menu designed to modernize the food ordering experience.

Offers real-time feedback and sleek, responsive design.

Built using HTML, Tailwind CSS, and JavaScript.

Problem Statement

Traditional printed or static digital menus do not offer interactivity.

Customers can't view updated prices for selected combinations.

Billing is done manually, often leading to errors or delays.

The lack of dynamic visual feedback limits user engagement.

There is growing demand for seamless, tech-enabled dining experiences.

Project Objectives

Build an interactive digital food menu system.

Allow users to choose items from categories like Starter, Main Course, and Dessert/Drink.

Display the total bill dynamically as selections are made.

Provide a clean, user-friendly UI that works across devices.

Include a reset feature to clear selections easily.

Methodology & Tools Used

Frontend Development:

- HTML5: For page structure and semantic layout.
- Tailwind CSS: To design a responsive, clean UI with utility classes.-

JavaScript: To handle logic for dynamic pricing and resetting selections.

Workflow:

- Code written and tested in VS Code.
- Live preview used for UI responsiveness.
- Modular approach for dropdowns and pricing logic.

Key Features

- Interactive Dropdown Menus: Categories divided for clarity and ease of use.-

Real-Time Bill Calculation: JavaScript logic ensures price is calculated instantly.-

Reset Functionality: A dedicated button clears all fields and totals.

- Responsive Design: Tailwind CSS ensures layout adjusts to any screen size.-

Minimalist UI: Intuitive and visually pleasant design for all users.

Conclusion & Future Work

Conclusion:

- Created a working smart restaurant menu using modern frontend tech.- Project meets goals of dynamic pricing and responsive design.
- Usability tested and visually appealing.

Future Work:

- Add backend for real menu database and order history.
- Implement user login and profile management.
- Enable online ordering and kitchen integration.

- Support accessibility standards and multiple languages.