Laboratório de Informática Project Report

1. Project Overview

This report presents the development and implementation of the Restaurant Web Application created as

2. Features Implemented

Home Page (index.html):

Introduction to the restaurant and navigation bar with links to various sections.

Featured menu items with a call to action for users to view the full menu.

Menu Page (menu.html):

Organized display of food categories (e.g., Sandwiches, Pizza, Kebab).

Product details, such as name, description, images, and prices.

Registration Page (register.html):

A form where users can register with their name, family name, and phone number.

Form validation to ensure correct data input.

Shop Cart Page (shop cart.html):

Display of selected items with prices and quantity adjustment.

Calculation of the total price and option to remove items from the cart.

Food Details Page (food details.html):

Detailed view of a specific food item with nutritional information (e.g., calories, protein).

Dynamic gallery displaying images related to the product.

3. Technologies and Frameworks Used

HTML5 and CSS3/SCSS: for structuring and styling the web pages.

JavaScript: for adding interactivity, such as dynamic content loading and form validation.

JSON Files: for storing and loading product details and menus.

GitHub: as a version control and collaboration tool.

4. SCSS Structure

icon.scss: for icon styles and sizes.

layout.scss: for overall layout configurations (e.g., flex and grid settings).

link.scss: for styling hyperlinks and button hover effects.

mystyle.scss: contains custom styling rules.

style new.scss: serves as the main style file that imports the partial SCSS files.

5. JSON File Details

food.json: contains nutritional data from various restaurant chains.

foods.json: includes structured data with product groups (e.g., Sandwich, Pizza, Kebab) and their respect

6. Challenges and Solutions

Form Validation: Ensuring robust validation for user inputs on the registration form.

Solution: Implemented JavaScript validation functions and data attributes to handle common errors.

SCSS Compilation: Managing multiple SCSS partials efficiently.

Solution: Ensured proper imports and maintained modular code for easy debugging.

7. GitHub Repository

A GitHub repository was created for version control and easy collaboration:

Repository Link: [Insert your repository link here]

The repository includes all project files and the PDF report.

8. Conclusion

This project successfully demonstrates the creation of an interactive restaurant web platform using mode

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