# Restaurant Website Frontend SDD

1. Introduction

- Purpose: The purpose of this document is to describe the design of a restaurant website that will allow customers to view the menu, place orders for pickup or delivery, make reservations, and save their favorite items for future orders. The website will also include a backend system for managing orders, updating the menu, and viewing customer data.

- Scope: This document covers the design of the frontend pages using HTML and CSS, and the implementation of JavaScript validation for customer inputs during the order and reservation process.

- References: W3schools for HTML5, CSS3, and JavaScript standards

2. System Architecture

- The system will have a frontend interface for customers and a backend interface for the restaurant staff. The frontend will include pages for the menu, order placement, reservation booking, and account management. The backend will allow staff to manage orders, update the menu, and view customer data.

3. Pages Design

- Home Page #1:

* Welcome message and introduction to the restaurant.

- Home Page #2:

* Navigation links to Menu, Order, Reservation, and About us pages.

- Menu Page:

* Categories: Appetizers, Entrees, Desserts.
* Each item will have a description, price, and optional add-ons.
* Search function to find specific items.
* “Add to cart” button that links to order page

- Order Page:

* A Form to select items, and quantities.
* Options for pickup or delivery.
* Summary of the order and total price.
* JavaScript validation for input fields (e.g., item selection, address for delivery).

- Reservation Page:

* Form to select date, time, and number of guests..
* Confirmation message.
* JavaScript validation for input fields (e.g., date, time, guest count).a
* Reservation summary

- Customer Account Page:

* Form to create or update account details (e.g., name, email, password).
* List of favorite items saved by the customer.
* Order history and reservation history.
* Feedback

4. HTML Structure

* Use semantic HTML5 elements
* Organize content using sections and divs

5. CSS Design

* Use CSS3 for styling and layout
* Implement responsive design for mobile and tablet devices
* Use flexbox or grid for layout management

6. JavaScript Functionality

Validate customer input for:

* Order form
* Reservation form
* Login/Registration form
* Implement search function
* Implement calendar integration (mocked)

7. JavaScript Validation Requirements

* Validate customer input using JavaScript
* Check for required fields
* Check for valid email and phone number formats
* Check for valid payment information

8. Accessibility Considerations

* Implement accessibility features for visually impaired users
* Use ARIA attributes for screen reader support
* Use high contrast colors for readability

9. Browser Compatibility

* Test for compatibility with modern browsers (Chrome, Firefox, Safari, Edge)
* Use vendor prefixes for CSS compatibility

10. Conclusion

This SDD document outlines the frontend design and implementation for the restaurant website.

HTML Pages

- index.html (Home Page)

- menu.html (Menu Page)

- order.html (Order Page)

- reservation.html (Reservation Page)

- account.html (Customer Account Page)

CSS Files

- styles.css (main stylesheet)

- responsive.css (responsive design stylesheet)

JavaScript Files

- script.js (main JavaScript file)

- validation.js (JavaScript validation file)