PITP WEB DEVELOPMENT FINAL TASK ASSIGNMENT
TASTE HAVEN RESTAURANT

Course: Certified Web Developer

Topic: Building a Responsive Restaurant Website

Deadline: 8th Jan, 2025

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1. Assignment Objective

Build a functional, responsive Restaurant Website for a fictional brand **"Taste Haven"**. You may choose **one** of the following technical tracks to complete this assignment:

- 🟢 **Track A:** React.js (Component-based, Single Page Application)
- 🔵 **Track B:** HTML/CSS/JS (Standard Multi-page Website)

Note: Both tracks have equal grading weight. Choose the one you feel most confident in.

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2. Pages to Build

Regardless of the track you choose, your website must contain these **five** distinct sections/pages:

1. **Homepage:** Hero section (Delicious Food Banner), "Chef's Specials", and Customer Reviews.

2. **About Us:** The Story of the Restaurant, Head Chef Profile, and Awards.

3. **Services:** Info on Catering, Private Dining, and Home Delivery options.

4. **Our Menu:** A list of food items with a **Category Filter** (Starters, Mains, Desserts).

5. **Reservation:** Restaurant location and a functional **Table Booking Form** with validation.

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3. Technical Instructions (Choose Your Track)

🟢 **Track A: React.js Requirements**

- **Framework:** React.js (Create-React-App or Vite).

- **Styling:** Bootstrap 5 (React-Bootstrap or standard CDN).

- **State Management:** Use useState for creating and managing state variables.

- **Navigation:** Use **React Router** OR implement **Conditional Rendering** (switching views using state).

- **Data Handling:** Create a data.js file with arrays for the **Food Menu** and display them using .map().

- **Forms:** Build "Controlled Components" where input values are bound to state.

🔵 **Track B: HTML / CSS / JS Requirements**

- **Structure:** Standard HTML5 semantic structure. You may build this as 5 separate HTML files linked together (index.html, menu.html, etc.).

- **Styling:** Bootstrap 5 + a custom style.css file.

- **JavaScript Logic:**

  - You must link a script.js file at the bottom of your pages.

  - **DOM Manipulation:** Use document.getElementById or querySelector to interact with elements.

- **Data Handling:** For the **Menu** page, create a JavaScript array of objects (e.g., const menuItems = [...]). Use a loop (forEach) to dynamically generate the HTML cards and inject them into the DOM. **Do not hardcode the HTML cards manually.**

- **Forms:** Use addEventListener to handle the form submit event and validate inputs.

4. Functional Requirements (Common to Both Tracks)

A. Shared Layout (Header & Footer)

- **Navbar:** Responsive Bootstrap Navbar with a logo. Must collapse into a "hamburger menu" on mobile screens.

- **Footer:** Sticky or static footer with Opening Hours, Address, and Social Links.

B. Menu Page (The "Logic" Challenge)

- **Data:** Display at least 9 food items (e.g., Burger, Pizza, Pasta, Salad, Cheesecake, Sushi).

- **Search/Filter:**

    o Add a **Search Bar** OR **Filter Buttons** (All, Breakfast, Lunch, Dinner).

    o **Logic:** When the user types a dish name or clicks a category button, the list must update to show only the relevant items.

    o *(React: Filter the array before rendering / JS: Hide non-matching elements).*

C. Reservation Page (The "Validation" Challenge)

- **Form Fields:** Name, Phone Number, Date, Time, Number of Guests.

- **Validation:**

    o Name cannot be empty.

    o Phone Number must be exactly 11 digits (if using local format) or valid length.

    o Number of Guests must be greater than 0.

- **Feedback:** Display a **Bootstrap Alert** (Green for "Table Booked!", Red for errors) based on the validation result.

5. Deliverables

1. **Source Code:** Upload your code to a public GitHub repository.
2. **Live Preview:**
   o **React:** Deploy on Vercel.
   o **HTML/JS:** Deploy on GitHub Pages or Vercel.
3. **Documentation:** A README.md file containing:
   o Your Name & Roll Number.
   o Which Track you chose (React or HTML/CSS/JS).
   o Screenshots of the Desktop and Mobile view.

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6. Submission Format

- **Repository Name:** PITP_FinalTask_YourName
- **Submit to:** PITP Portal (as instructed).