

PITP WEB DEVELOPMENT FINAL TASK ASSIGNMENT

DREAM HOME REAL ESTATE

Course: Certified Web Developer

Topic: Building a Responsive Property Listing Website

Deadline: 8th Jan, 2025

1. Assignment Objective

Build a functional, responsive Real Estate Portal for a fictional agency "**Dream Home**". 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.

2. Pages to Build

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

1. **Homepage:** Hero section (Search Bar focus), "Featured Properties", and Client Testimonials.
 2. **About Us:** Agency History, Awards, and "Meet Our Agents".
 3. **Services:** Info on Buying, Selling, Rental Management, and Property Valuation.
 4. **Properties:** A list of available houses/apartments with a **Search/Filter** feature.
 5. **Contact:** Agency Office location and a functional **Schedule a Visit 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 **Property Listings** 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, properties.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 **Properties** page, create a JavaScript array of objects (e.g., const properties = [...]). 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.

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DREAM HOME REAL ESTATE

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 Quick Links, Contact Info, and Social Media icons.

B. Properties Page (The "Logic" Challenge)

- **Data:** Display at least 6 property listings (e.g., Luxury Villa, City Apartment, Studio, Commercial Office).
- **Search/Filter:**
 - Add a **Search Input** or **Category Dropdown** (Rent vs. Buy).
 - **Logic:** When the user selects a category or types a location (e.g., "Downtown"), the list must update to show only matching properties.
 - (*React: Filter the array before rendering / JS: Hide non-matching elements*).

C. Contact Page (The "Validation" Challenge)

- **Form Fields:** Name, Email, Phone Number, Property Reference ID (optional), Message.
 - **Validation:**
 - Name cannot be empty.
 - Phone Number must be valid (numeric).
 - Message must not be empty.
 - **Feedback:** Display a **Bootstrap Alert** (Green for "Visit Scheduled", Red for errors) based on the validation result.
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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).