

PITP WEB DEVELOPMENT FINAL TASK ASSIGNMENT

TECHZONE ELECTRONICS STORE



Course: Certified Web Developer

Topic: Building a Responsive Product Showcase Website

Deadline: 8th Jan, 2025

1. Assignment Objective

Build a functional, responsive E-Commerce Product Showcase for a fictional brand "**TechZone**". 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 (Featured Product), "Why Choose Us", and Best Sellers grid.
 2. **About Us:** Brand Story, Mission, and Team Members.
 3. **Services:** A list of repair services and a **Pricing Table** for support plans.
 4. **Products:** A list of gadgets/electronics with a **Search/Filter** feature.
 5. **Contact:** Store location and a functional **Support 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 **Products** 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, products.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 **Products** page, create a JavaScript array of objects (e.g., const products = [...]). 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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4. Functional Requirements (Common to Both Tracks)

A. Shared Layout (Header & Footer)

- **Navbar:** Responsive Bootstrap Navbar. Must collapse into a "hamburger menu" on mobile screens.
- **Footer:** Sticky or static footer with Copyright info, Social Media icons, and Newsletter signup.

B. Products Page (The "Logic" Challenge)

- **Data:** Display at least 6 products (e.g., Laptop, Smartphone, Headphones, Smartwatch, Camera, Tablet).
- **Search Filter:**
 - ❖ Add an input field (Search bar) at the top of the grid.
 - ❖ **Logic:** When the user types in the box, the product grid must update in real-time to show only matching items.
 - ❖ *(React: Filter the array before rendering / JS: Hide non-matching elements or re-render the list).*

C. Contact Page (The "Validation" Challenge)

- **Form Fields:** Name, Email, Order ID (optional), Message.
 - **Validation:**
 - ❖ Name cannot be empty.
 - ❖ Email must contain an "@" symbol.
 - ❖ Message must be at least 10 characters long.
 - **Feedback:** Display a **Bootstrap Alert** (Green for "Support Ticket Submitted", 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:**
 - ❖ **React:** Deploy on Vercel.
 - ❖ **HTML/JS:** Deploy on GitHub Pages or Vercel.
 3. **Documentation:** A README.md file containing:
 - ❖ Your Name & Roll Number.
 - ❖ Which Track you chose (React or HTML/CSS/JS).
 - ❖ 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).