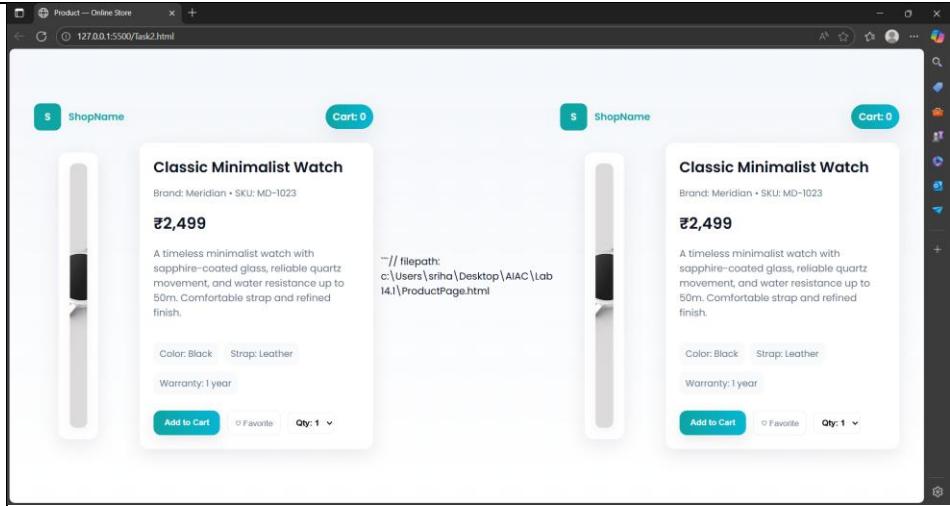


SCHOOL OF COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE		DEPARTMENT OF COMPUTER SCIENCE ENGINEERING	
<b>Program Name:</b> B. Tech		<b>Assignment Type:</b> Lab	
<b>Course Coordinator Name</b>		Venkataramana Veeramsetty	
<b>Instructor(s) Name</b>		Dr. V. Venkataramana (Co-ordinator) Dr. T. Sampath Kumar Dr. Pramoda Patro Dr. Brij Kishor Tiwari Dr.J.Ravichander Dr. Mohammand Ali Shaik Dr. Anirodh Kumar Mr. S.Naresh Kumar Dr. RAJESH VELPULA Mr. Kundhan Kumar Ms. Ch.Rajitha Mr. M Prakash Mr. B.Raju Intern 1 (Dharma teja) Intern 2 (Sai Prasad) Intern 3 (Sowmya) NS_2 (Mounika)	
<b>Course Code</b>	24CS002PC215	<b>Course Title</b>	AI Assisted Coding
<b>Year/Sem</b>	II/I	<b>Regulation</b>	R24
<b>Date and Day of Assignment</b>	Week7 - Monday	<b>Time(s)</b>	
<b>Duration</b>	2 Hours	<b>Applicable to Batches</b>	
<b>AssignmentNumber:</b> 14.1(Present assignment number)/ <b>24</b> (Total number of assignments)			
<b>Q.No.</b>	<b>Question</b>		<b>Expected Time to complete</b>
1	<b>Lab 14: Web Design Application – AI-Assisted HTML/CSS/JS Generation</b> <b>Lab Objectives</b> <ul style="list-style-type: none"> <li>• Design <b>functional, visually appealing</b> web applications using HTML, CSS, and JavaScript with AI assistance.</li> <li>• Apply <b>responsive, accessible, and interactive design principles</b></li> </ul>		Week7 - Monday

	<ul style="list-style-type: none"> <li>• Create <b>practical UI components</b> for real-world web applications.</li> <li>• Use AI to optimize <b>layout, UX, and performance</b>.</li> </ul>	
	<p><b>Task 1 – Portfolio Website Design</b></p> <p>You are building a personal portfolio website to showcase your work.</p> <p><b>Requirements:</b></p> <ul style="list-style-type: none"> <li>• Create sections for <b>About Me, Projects, and Contact</b>.</li> <li>• Use AI to: <ul style="list-style-type: none"> <li>◦ Suggest <b>color palettes</b> and typography.</li> <li>◦ Create a <b>responsive layout</b> with Grid/Flexbox.</li> <li>◦ Add smooth scrolling navigation.</li> </ul> </li> </ul> <p><b>Prompt:</b></p> <p>I'm building a <b>personal portfolio website</b> with sections: About Me, Projects, and Contact.</p> <p>Please help me:</p> <ol style="list-style-type: none"> <li>1. Suggest a <b>professional color palette</b> and matching <b>typography</b>.</li> <li>2. Create a <b>responsive layout</b> using <b>CSS Grid or Flexbox</b>.</li> <li>3. Add <b>smooth scrolling navigation</b> between sections.</li> <li>4. Use <b>semantic HTML structure</b> and clean CSS.</li> <li>5. Make it look elegant and mobile-friendly.</li> </ol> <p>Finally, show me the full HTML + CSS code.</p> <p><b>Output:</b></p>	

	<p><b>Task 2 – Online Store Product Page</b></p> <p>Design a product display page for an online store.</p> <p><b>Requirements:</b></p> <ul style="list-style-type: none"> <li>• Display product image, title, price, and "Add to Cart" button.</li> <li>• Use AI to: <ul style="list-style-type: none"> <li>◦ Style with <b>BEM methodology</b>.</li> <li>◦ Make layout <b>responsive</b>.</li> <li>◦ Add <b>hover effects</b> and "<b>Add to Cart</b>" <b>alert</b>.</li> </ul> </li> </ul> <p>Prompt:</p> <p>I need to design an <b>online store product display page</b> that shows:</p> <ul style="list-style-type: none"> <li>• Product image</li> <li>• Title</li> <li>• Price</li> <li>• “Add to Cart” button</li> </ul> <p>Please:</p> <ol style="list-style-type: none"> <li>1. Use <b>BEM methodology</b> for class naming.</li> <li>2. Add <b>responsive layout</b> using Flexbox or Grid.</li> <li>3. Include <b>hover effects</b> on the product card.</li> <li>4. Show an <b>alert message</b> when “Add to Cart” is clicked.</li> <li>5. Give me the full HTML, CSS, and JavaScript code.</li> </ol> <p>Output:</p>



### Task 3 – Event Registration Form

Build an event registration form for a conference.

#### Requirements:

- Collect **name, email, phone number, and session selection**.
- Use AI to:
  - Add **form validation** with JavaScript.
  - Make the form **accessible** with labels and ARIA.
  - Style with a **professional look**.

Prompt:

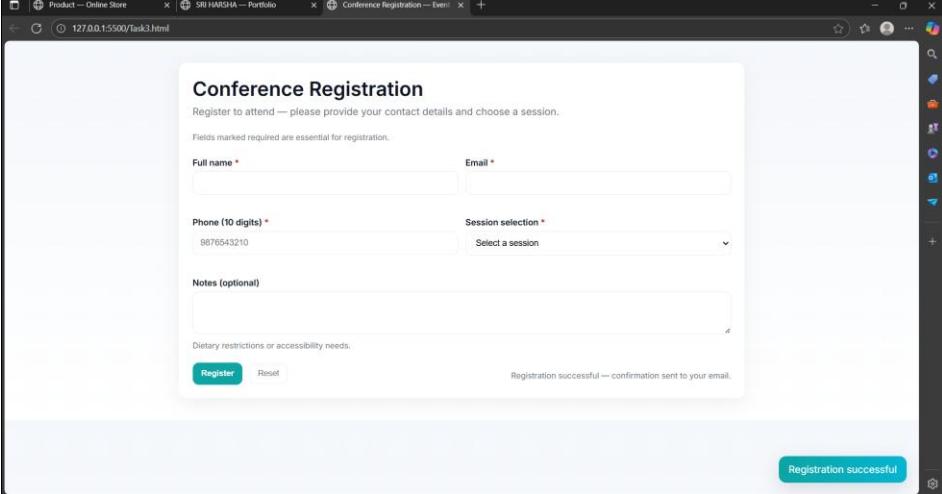
Create an **Event Registration Form** for a conference that collects:

- Name
- Email
- Phone number
- Session selection (dropdown or radio buttons)

Please:

1. Add **form validation** using JavaScript (e.g., required fields, valid email).
2. Make the form **accessible** with `<label>` tags and **ARIA attributes**.
3. Style it with a **clean, professional look** using CSS (Flexbox/Grid).
4. Include both HTML, CSS, and JS code.

Output:

		
	<p><b>Task Description #4 (Data – Fetch API &amp; Render List with Loading/Error States)</b></p> <ul style="list-style-type: none"> <li>• <b>Task:</b> Fetch JSON from an API and render items to the DOM with loading and error UI.</li> <li>• <b>Instructions:</b> <ul style="list-style-type: none"> <li>○ Ask AI to write fetch() logic, create DOM nodes safely, and add skeleton/loading text.</li> </ul> </li> </ul> <p>Prompt: I need a web page that:</p> <ol style="list-style-type: none"> <li>1. <b>Fetches JSON data</b> from an API (like <a href="https://jsonplaceholder.typicode.com/users">https://jsonplaceholder.typicode.com/users</a>).</li> <li>2. Renders the data (name, email, etc.) to the DOM dynamically.</li> <li>3. Shows a “<b>Loading...</b>” message while fetching.</li> <li>4. Displays an <b>error message</b> if fetching fails.</li> </ol> <p>Please:</p> <ul style="list-style-type: none"> <li>• Write <b>fetch() logic</b> with error handling.</li> <li>• Create <b>DOM nodes safely</b> with JavaScript.</li> <li>• Add a simple and responsive design using CSS.</li> </ul> <p>Provide complete HTML, CSS, and JS.</p> <p>Output:</p>	

**Fetch API & Render List**

Data Loaded Successfully

<b>Leanne Graham</b> Email: Sincere@april.biz City: Gwenborough	<b>Ervin Howell</b> Email: Shanna@melissa.tv City: Wisokyburgh	<b>Clementine Bauch</b> Email: Nathan@yesenia.net City: McKenziehaven	<b>Patricia Lebsack</b> Email: Julianne.OConner@kory.org City: South Elvis	<b>Chelsey Dietrich</b> Email: Lucio_Hettinger@annie.ca City: Roscoeview
<b>Mrs. Dennis Schulist</b> Email: Karley_Dach@jasper.info City: South Christy	<b>Kurtis Weissnat</b> Email: Telly.Hoeger@billy.biz City: Howemouth	<b>Nicholas Runolfsdottir V</b> Email: Sherwood@rosamond.me City: Aliyaview	<b>Glenna Reichert</b> Email: Chain_McDermott@dana.io City: Bartholombury	<b>Clementina DuBuque</b> Email: Rey.Padberg@karina.biz City: Lebsackbury

**Deliverables (For All Tasks)**

1. AI-generated prompts for code and test case generation.
2. At least 3 assert test cases for each task.
3. AI-generated initial code and execution screenshots.
4. Analysis of whether code passes all tests.
5. Improved final version with inline comments and explanation.
6. Compiled report (Word/PDF) with prompts, test cases, assertions, code, and output.