| **Code Snippet** | **Explanation** |
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| <!DOCTYPE html> | Declares the document as HTML5. |
| <link rel="stylesheet" href="index-css.css"> | Links the HTML page to the separate CSS file, index-css.css, for styling. |
| <form id="pcBuildForm"> | Defines the main interactive form element, giving it an ID so JavaScript can target it. |
| <input type="text" name="userName" required> | Creates a text input; the **name** attribute (userName) is crucial for data collection. |
| <select id="cpu" name="cpu" required> | Creates a dropdown menu; the **name** attribute (cpu) is used to pass the selected value. |
| <option value="Intel i5-14600K"> | Defines a selection option; the string inside the **value** attribute is the actual data sent upon submission. |
| event.preventDefault(); | Stops the browser's default action of refreshing the page, allowing our script to take control of the data. |
| const queryString = \?name=${encodeURIComponent(name)}&email=...`;` | Constructs the URL query string by joining the collected variables with & and safely formatting special characters using encodeURIComponent() . |
| const params = new URLSearchParams(window.location.search); | Creates a special object that automatically parses the URL's query string (the part after the ?) into usable key-value pairs. |
| const cpu = params.get('cpu') || 'N/A'; | Retrieves the value associated with the key 'cpu' from the URL, if the value is missing, it defaults to 'N/A'. |
| const detailsDiv = document.getElementById('confirmationDetails'); | Gets a reference to the container element where the final output will be displayed. |
| detailsDiv.innerHTML = \<h2>...</h2><p>Name: ${name}</p>...`;` | Generates and inject a large block of HTML into the designated container, replacing its previous content. |