**Drag & Drop Website Builder - Project Explanation**

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**Role Applied For:** Frontend Developer

**Project Title:** Drag and Drop Website Builder

**Overview:**

I created a basic drag-and-drop website builder using only HTML, CSS, and JavaScript. Users can drag elements like text, buttons, or images from a sidebar and drop them on a canvas. Each element can be edited—users can change the text, font size, color, or image link. This is a simple editor with no frameworks or libraries.

**Main Features:**

* **Drag & Drop:** Move items from the sidebar to the canvas easily.
* **Edit Elements:** Click on any element to change its properties using a pop-up form.
* **Responsive Design:** Looks good on desktop and mobile devices.
* **No Frameworks:** Built from scratch using core web technologies.

**How It Works:**

1. **HTML Structure:**
   * The page is divided into a sidebar (for draggable items) and a canvas (where users drop elements).
   * There’s also a hidden modal for editing element properties.
2. **CSS Layout:**
   * Flexbox is used for the layout.
   * The sidebar is fixed width and scrollable.
   * Canvas items are absolutely positioned and move freely.
   * Modal is centered and styled with a clean look.
3. **JavaScript Functions:**
   * **Dragging:** Detects when an item is picked up and dropped on the canvas.
   * **Creating Elements:** Adds new items on the canvas when dropped.
   * **Editing:** Opens a modal with fields to change text, color, font size, etc.
   * **Saving:** Applies changes to the selected element.
   * **Positioning:** Allows items to be repositioned by dragging them within the canvas.
4. **Other Features:**
   * Every element has a unique ID.
   * Colors are converted from RGB to HEX to use in the color picker.

**Extendability :** This builder is built to be easily expanded. You can:

* Add more items to the sidebar.
* Add new logic for creating and editing new types.
* Add more styling options in the modal.

Thank you for the opportunity. I look forward to contributing and growing as a frontend developer.