

Website Builder Documentation

Demo Video - <https://youtu.be/JL3s9FRpa7w?si=KHUICaPufSlwatKM>

Code Link - https://github.com/Sumeetbeginner/dnd_assign

How This Builder Works

1. The Basics

This drag-and-drop website builder lets you create simple web pages by:

- Dragging elements from the left sidebar
- Dropping them anywhere on the canvas
- Customizing each element's look and content
- Previewing your final website

2. Main Components

Left Sidebar (Toolbox)

- Contains all available elements (text, images, buttons)
- Just click any element to add it to your page

Middle Canvas (Work Area)

- This is where you build your page
- Drag elements around to position them
- Click elements to select them for editing

Right Panel (Properties)

- Shows editing options for whatever element you've selected
- Change colors, text, sizes, and more
- Remove elements you don't want

3. Key Features

Easy Drag-and-Drop

- Grab any element and move it wherever you want
- Elements snap to a grid for clean layouts

Live Editing

- Changes appear instantly as you make them
- No need to save or refresh

Preview Mode

- See how your website will actually look
- Works on both desktop and mobile views

4. For Developers

Built With

- React.js for the interface
- Vite for fast development
- react-dnd for drag-and-drop
- Pure CSS (no frameworks)

Why This Architecture?

- Simple but powerful enough for a basic builder
- Easy to add new features later
- Clean code that's straightforward to maintain

How To Extend It

1. Add new elements by:
 - Creating new element types in the sidebar
 - Adding their property controls
 - Defining how they render
2. Improve it by:
 - Adding templates
 - Including undo/redo
 - Making it responsive for mobile