1. Dynamic Dashboard Grid Builder

Description:
Create a dashboard where the user can add, resize, drag, and remove grid widgets (cards).
The layout should update in real-time and persist in localStorage.

Core Requirements:

- Add new cards using a button.

- Each card must be draggable.

- Resize cards using a bottom-right handle.

- Save/restore dashboard layout using localStorage.

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2. Real-Time Form Validator with Custom Rules

Description:
Build a form (email, password, username) where validation runs on **every keystroke**.
Show green/red borders dynamically and error messages.

Core Requirements:

- Password strength meter based on regex rules.

- Live email domain suggestion (e.g., user types "@g", show "gmail.com").

- Disable submit button until all valid.

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3. Interactive Image Annotation Tool

Description:
An interface that displays an image and allows users to click anywhere to place numbered markers.

Core Requirements:

- Clicking places a marker with auto-increment ID.

- Clicking an existing marker opens an edit/delete popup.

- All markers stored in a JSON structure and previewed on the side.

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4. AI-Like Chat Interface with Offline Logic

Description:
Create a chat UI where the bot responds using predefined rules (keyword detection).

Core Requirements:

- Smooth typing animation (letter-by-letter).

- Auto-scroll to bottom on new message.

- Store chat history in localStorage.

- Support "clear chat".

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5. Drag-and-Drop File Upload Zone with Preview

Description:
Build a file drop zone that previews images, shows file sizes, and rejects files over 2MB.

Core Requirements:

- Highlight border on dragover.

- Thumbnail preview.

- Error popup for rejected files.

- Remove preview option.

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6. Custom Audio Player from Scratch

Description:
Develop a custom audio player UI.

Core Requirements:

- Play, pause, stop buttons.

- Seek bar (manipulate time).

- Volume slider.

- Current time / total duration display.

- Animated visualization bar using CSS.

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7. Multi-Step Form with Animated Transitions

Description:
Build a **3-step form** with animation between steps.

Core Requirements:

- Slide left/right transitions.

- Step indicators update dynamically.

- "Back", "Next", "Submit" buttons.

- Validate each step before advancing.

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8. Dark/Light Theme Toggle (with Auto-Save)

Description:
Create a toggle button that switches theme.

Core Requirements:

- Smooth CSS transition.

- Save theme in localStorage.

- Apply theme before DOM renders (avoid flash).

- User can customize accent color.

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9. Custom Modal System with Multiple Modals

Description:
Build a reusable modal system.

Core Requirements:

- Click any of three buttons to open different modals.

- Modal fade-in/fade-out animation.

- Close via ESC key / outside click.

- Each modal loads content dynamically from JavaScript.

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10. Live Search Engine with Highlighting

Description:
Create a list of 50 items.
As the user types, filter and **highlight matched characters**.

Core Requirements:

- Case-insensitive search.

- Highlight matched text with <mark>.

- No result → show "No items found".

- Performance optimized: use documentFragment.