Goal

Build a small web app that generates a **set of 4 icons** that share a **consistent style** (e.g., "Pastels", "Bubbles", etc.) from a **single prompt**. Optionally accept brand colors to steer the palette.

Inputs

1. "Prompt for Icon Set" (example: "Toys")
2. "Preset Style" (select one)
3. (Optional) Color inputs

Preset Styles: Use these 5 styles for your presets:

| Style 1 | Style 2 | Style 3 | Style 4 | Style 5 |

Output

1. A grid of 4 **different** 512x512 PNGs - no repeated icons
2. Matching visual style and themed to the prompt - refer to the presets above
3. Downloadable PNGs/JPGs
4. Optional: Apply HEX color codes

Example

Input prompt: "Toys" Style: 1/2

Output: 4 different icons with toy related visuals, all in the same style (teddy bear, toy car, bunnies, fidget toy)
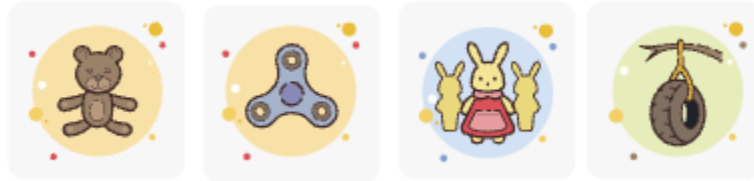
EXAMPLE Style: Style 1

EXAMPLE Style: 2

Image Generation API:

Use the Replicate API to access image generation models.

Please use this image generation mode: https://replicate.com/black-forest-labs/flux-schnell

Your API Token: r8_GhYzAuZpV8xJP2dNL83CYJUxyhAgyj93D4wbS or r8_XJogK7DOTt86YxHu3zsp0lwTYmIoIQh1MkRcW (please email shahedeh@venngage.com if you have any issues. She will send a personal token if need be)

Do NOT use any other image generation model.

You may use **Node.js + React** with **TypeScript or JavaScript**.

You may use any other LLM APIs (chatGPT, Claude, Gemini) for related processing.

Please be mindful of the API token usage as they all incur a cost.

Submission

Deploy somewhere and submit the URL to mia@venngage.com.

Do not spend more than 4 hours on this assignment.

What we're evaluating

- Product outputs: coherent UX for prompt → consistent set of icons
- Code quality: modularity, tests, error handling

- API integration and reliability
- Consistency controls for the styles, palette control.