

Lab 6

- S A Herdev Anish

Aim: Using Cursor AI/Lovable: Create a website, web app

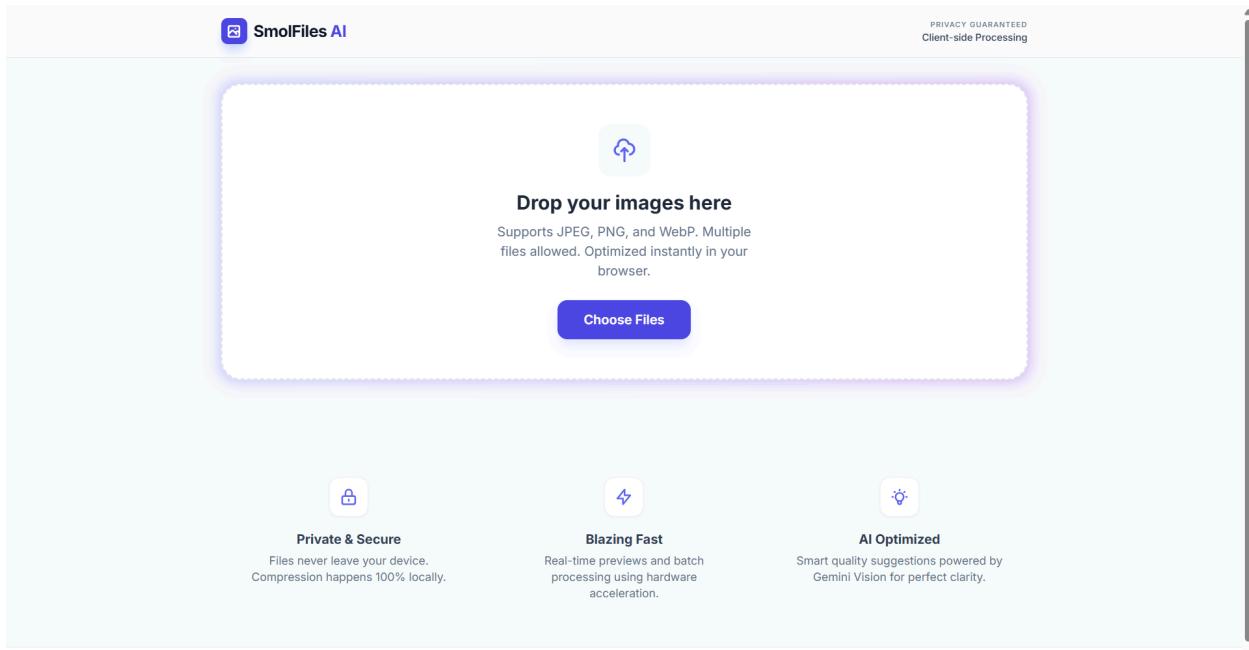
Prompt:

I want to create a web-based image compression tool. The website should allow users to upload one or more images (JPEG, PNG, and WebP). Users should be able to choose their desired output file size or compression level using a slider or input field. Once selected, the tool should compress the image in real time on the server or in the browser while maintaining the best possible visual quality. After compression, users should be able to preview the compressed image, see the original vs compressed file size, and download the optimized image. The interface should be simple, fast, and mobile-friendly, with no login required.

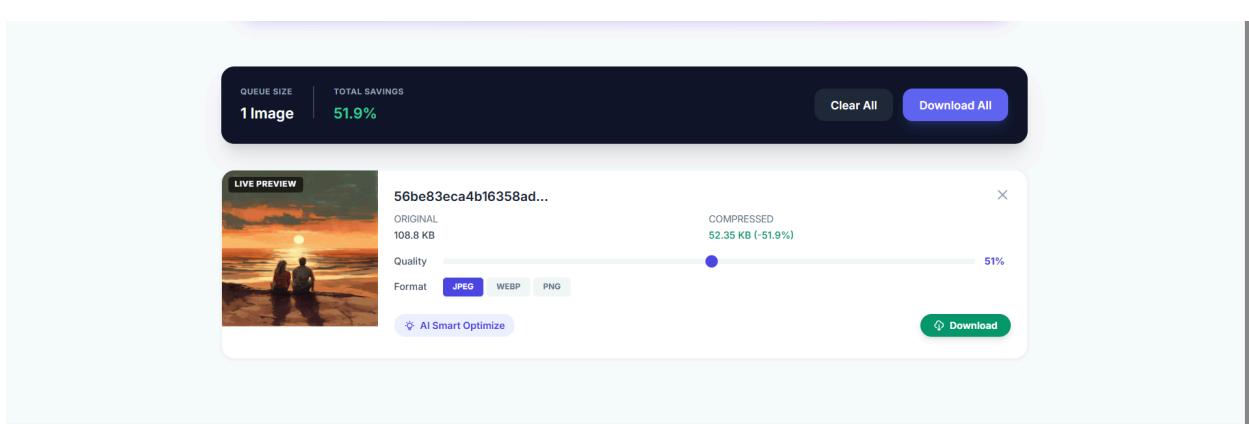
Refinement prompts:

1. On the image compression results page, the green “Download” button is currently blinking for some images, which is unintended behavior. I want the download button to remain static and consistent for all images, with no blinking or animation. However, I do want users to be able to preview the compressed image quality before downloading. The preview should clearly show the compressed image, allowing users to visually assess quality, while the download button remains stable and only becomes active once the compression process is complete.
2. Currently, the green action button rapidly switches between “Processing” and “Download” states even when the compression slider is not being moved. This behavior is unintended. I want the image to be processed **only once** when the user finishes adjusting the slider (for example, on slider release or after a short debounce delay). Once processing is complete, the button should change to “Download” and remain in that state until the user moves the slider again. The button should not re-enter the “Processing” state unless the slider value actually changes.

Output:



The screenshot shows the SmolFiles AI web interface. At the top left is the logo "SmolFiles AI". To the right, it says "PRIVACY GUARANTEED" and "Client-side Processing". Below this is a large central area with a purple dashed border containing a cloud icon and the text "Drop your images here". It also includes the subtext: "Supports JPEG, PNG, and WebP. Multiple files allowed. Optimized instantly in your browser." A blue "Choose Files" button is located at the bottom of this section. At the bottom of the main area, there are three sections: "Private & Secure" (with a lock icon), "Blazing Fast" (with a lightning bolt icon), and "AI Optimized" (with a lightbulb icon). Each section has a brief description below its icon.



This screenshot shows the SmolFiles AI processing interface. At the top, it displays "QUEUE SIZE 1 Image" and "TOTAL SAVINGS 51.9%". There are "Clear All" and "Download All" buttons. Below this is a "LIVE PREVIEW" section showing a sunset image of two people sitting on a beach. The preview details are: "56be83eca4b16358ad...", "ORIGINAL 108.8 KB", "COMPRESSED 52.35 KB (-51.9%)", "Quality 51%", and "Format JPEG WEBP PNG". It also features an "AI Smart Optimize" button and a "Download" button. At the bottom, it says "Crafted with precision for designers and developers." and provides links to "PRIVACY POLICY", "API DOCUMENTATION", and "SUPPORT".

56be83eca4b16358ad6e22cd36b5b4a9.jpg

Original: 108.8 KB Optimized: 52.35 KB

Toggle Original



FORMAT
JPEG

QUALITY
51%

REDUCTION
51.9%

Use the toggle button to quickly spot quality differences.