

Complete Documentation

Welcome to the complete documentation of **MockupGen Studio**, a powerful AI-driven tool designed to generate photorealistic UI mockups from references, descriptions, and advanced parameters.

Main Features

Advanced AI Generation: Uses *Gemini 3.1 Pro* to process user instructions and generate an optimized prompt, while *Gemini 2.5 Flash Imagen* is employed to render high-resolution final images.

Multi-Language and Theme Support: The interface is available in English, Italian, Spanish, and French. It supports both Light and Dark modes, saving your preferences in the browser.

Multiple Variations and Formats: You can choose to generate up to 4 variations simultaneously, set the Aspect Ratio (e.g., 16:9, 1:1, 9:16), and the download format (WEBP, PNG, JPG).

Total Camera Control: Precisely customize zoom and perspective angles (horizontal and vertical), or rely on AI-guided random parameters.

Dynamic Prompt Editing: After generating the "Optimized Prompt", you can manually modify it before proceeding with image generation, or during the iterative refinement process.

Multiple References (Multimodal): Upload images, wireframes, notes, or provide a website URL to give the AI strong visual or conceptual context.

Demo Mode: Allows testing the interface without consuming real AI calls.

User Interface and Navigation

The app is divided into three main sections:

Splash Screen / Login: The gateway to the app. Here you can log in by entering credentials, start Demo mode, or change theme and language in the top right. Default demo credentials are demo / demo.

Top Bar (Header): Provides access to the "Help" panel, "Settings" (gear icon), and allows logging out.

Side Panel (Sidebar): This is the "Control Center" where you will set all parameters.

Result Area (Central Canvas): This is where generated mockups will appear, including an area at the bottom to manipulate and edit the current Prompt.

How to Use the App

1 Setting References

References are optional but highly recommended if you wish to reproduce specific apps or logos.

Image Upload: Drag or click to upload logos, wireframes, or screenshots.

Website: Enter a reference URL to tell the AI to draw inspiration from a specific site.

Generic Description: Add textual details or intents (e.g., "Dark analytical dashboard for finance management").

2 Defining Visual Parameters

In the Sidebar, scroll through the sections to establish the look of your mockup:

Environment: The surrounding environment in which the device is placed (e.g., Modern office, Outdoors).

Device: The screen to insert the UI (e.g., MacBook Pro 16, iPhone 15 Pro).

Style and Lighting: Define the tone (e.g., Minimalist, Clay) and light (e.g., Studio, Natural, Cyberpunk). You can use "*Custom...*" entries to insert your own ideas entirely.

3 Angle and Format (Camera & Format)

Choose the photographic impact:

Turn off "*Random*" switches if you wish to lock in a specific angle.

Set the zoom (e.g., 100% for full screen, or 50% for a wide environmental view).

Select the Aspect Ratio (Wide, Square, or Vertical), the download format, and how many images you want to generate simultaneously.

4 Generation and Prompt Editing

Click **Generate Prompt**. The system will create the best prompt gathering all entered parameters.

Check the area at the bottom (below the canvas). Here you will read the Active Prompt.

If you wish to make adjustments, use the **Edit** button, write your additions/removals, and click **Save**.

5 Mockup Generation

Once the prompt is ready, click **Generate Mockup**.

After loading is complete, images will be arranged in a grid.

You can click an image to open it in "Lightbox" (full screen) and proceed with the download using the icon and chosen format.

If you're not satisfied with the result, you can alter the prompt and press **Re-Generate**, or change parameters on the left and generate a completely new prompt.

Tips for Optimal Use

Leverage Custom Parameters: Don't settle for presets. If you want a MacBook in an "Undersea biology lab lit by neon lights", use the "Custom..." option in the Environment and Lighting tabs.

Explicit Visual Details: Use the general description field combined with custom prompt editing: the AI is very receptive to UI styles like "Glassmorphism", "Neumorphism", and "Bento Grid Layout".

Limit Zoom in Rich Environments: If you opt for high **Richness** (8–10) and set a very detailed environment, the AI will render the mockup better with 50–70% zoom compared to 150%, to show surrounding objects.

Editing Prompt on the Fly: Generated the mockup but find a plant on the desk obstructs the view? Click "Edit" on the prompt, add – no plants in the foreground, keep desk empty and save. Then click Re-Generate to see variations.

Use of References: By providing the original UI screenshot, Gemini Imagen's text rendering will tend to better map the source's structure and colors.

Settings Management

The application is designed to be persistent. Any linguistic and chromatic preference is saved in your localStorage.

Click the gear icon in the top right within the app.

From here you can instantly switch between themes (Light/Dark) and languages (EN, IT, ES, FR). The interface re-renders instantly and the setting is shared with the login page, remaining uniform at every access.