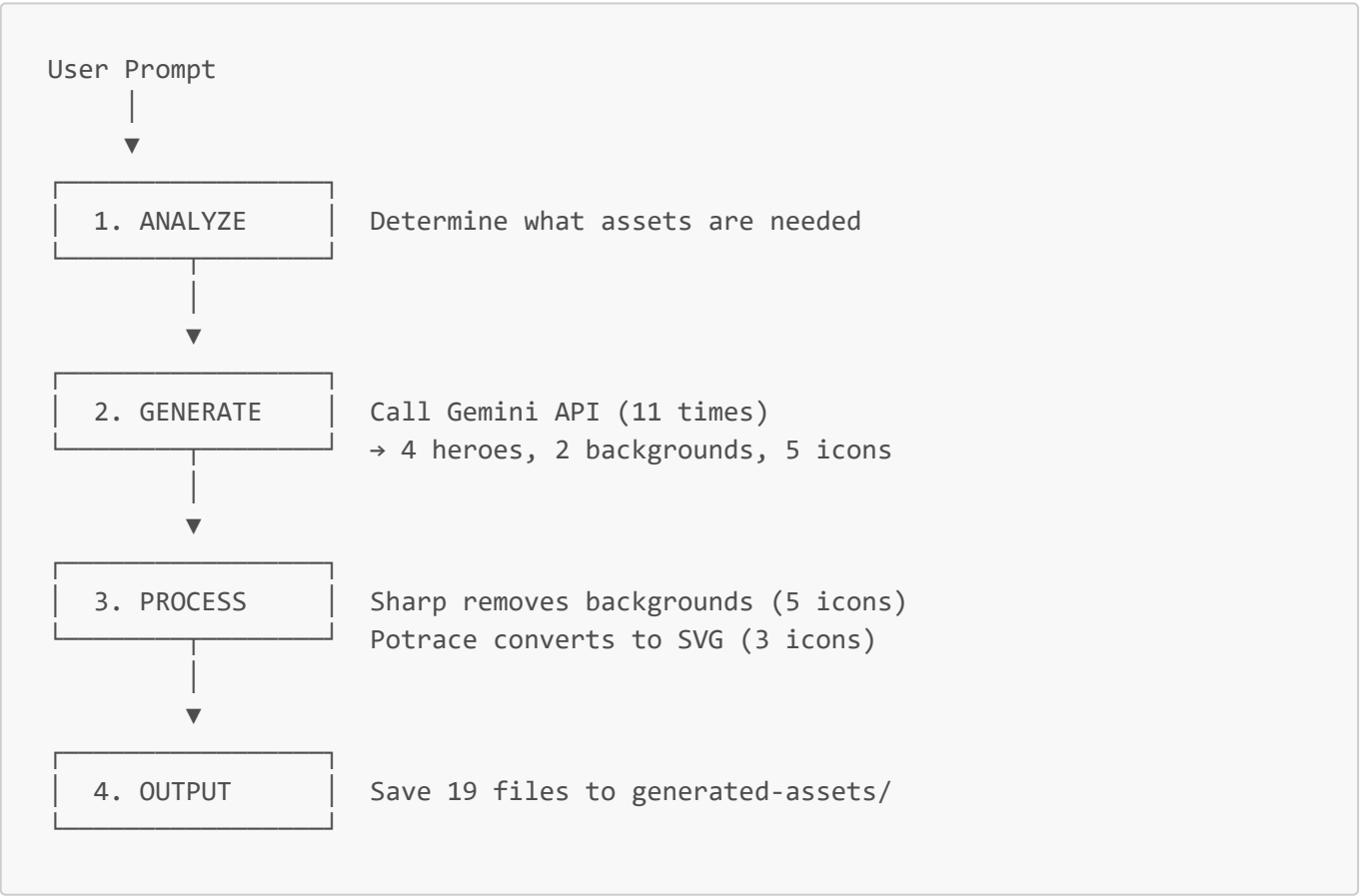# AI Image Asset Generator

What is this?

A Claude Code skill that automatically generates website images using Google Gemini AI. Just describe your project and it creates all the images you need.

Technologies Used

Technology	Purpose
Google Gemini 2.0 Flash	AI image generation
Sharp	Background removal from images
Potrace	PNG to SVG vector conversion
Node.js	Script execution

How it works

```
User Prompt
    |
    ▼
┌─────────────────┐
│  1. ANALYZE     │    Determine what assets are needed
└─────────────────┘
         |
         ▼
┌─────────────────┐
│  2. GENERATE    │    Call Gemini API (11 times)
└─────────────────┘    → 4 heroes, 2 backgrounds, 5 icons
         |
         ▼
┌─────────────────┐
│  3. PROCESS     │    Sharp removes backgrounds (5 icons)
└─────────────────┘    Potrace converts to SVG (3 icons)
         |
         ▼
┌─────────────────┐
│  4. OUTPUT      │    Save 19 files to generated-assets/
└─────────────────┘
```

What it generates

For any landing page, it creates **19 files**:

Type	Count	Description

Type	Count	Description
Hero Images	4	Large banner images (1920x1080)
Backgrounds	2	Pattern/texture images (1920x1080)
Icons	5	Small icons (256x256)
Transparent Icons	5	Same icons with background removed
SVG Vectors	3	Scalable vector versions of icons

Setup

1. Install dependencies in your project root:

```
npm install @google/generative-ai sharp potrace fs-extra chalk ora commander
dotenv axios
```

2. Add your Gemini API key to `.env`:

```
GEMINI_API_KEY=your_api_key_here
```

Get API key from: https://aistudio.google.com/apikey

How to use

Just tell Claude what you want to build:

```
I want to build a [your project] landing page so generate the assets using
.claude/ai-image-asset-generator
```

Example

Prompt:

```
I want to build a cricket academy website landing page so generate the assets
using .claude/ai-image-asset-generator
```

Output: `generated-assets/cricket-academy/`

```
hero-main.png
hero-secondary.png
hero-feature.png
```

```
hero-cta.png
background-main.png
background-secondary.png
icon-primary.png
icon-primary-nobg.png
icon-primary-nobg.svg
icon-secondary.png
icon-secondary-nobg.png
icon-secondary-nobg.svg
icon-tertiary.png
icon-tertiary-nobg.png
icon-tertiary-nobg.svg
icon-quaternary.png
icon-quaternary-nobg.png
icon-quinary.png
icon-quinary-nobg.png
```

That's it!

One prompt = 19 ready-to-use website images.