App Concept: Prompt Superpower Tool

Purpose:
Create an app that acts as a superpower for prompting. It allows users to craft highly specific, detailed prompts using a multi-reference system. The goal is to provide full creative control for users who struggle to translate complex visual ideas into AI prompts, enabling precise, repeatable, and creative AI-generated imagery.

Key Problems Solved:

1. Users struggle to control AI-generated results.

2. Current tools don't allow separating intent for multiple references.

3. There is no clean interface to manage prompt variations, references, and outputs side-by-side.

App Features:

1. Project Creation

- User starts by creating a "Project Brief."

- Free text field where user can describe the idea.

- Upload multiple reference images.

- Tag each reference by type (e.g., lighting, pose, composition, outfit, mood, color grading, etc).

2. Prompt Generation

- ChatGPT receives the project brief and reference tags.

- The system analyzes and interprets the user's intent.

- Output: 10 prompt variations based on user input.

- Each prompt combines different tagged elements from the references in unique ways.

3. Prompt Review & Selection

- UI displays the 10 prompt variations.

- Users can preview the written prompts.

- Ability to favorite, edit slightly, or remove prompts.

- Select prompts to generate.

4. Image Generation (Astria API)

- User selects the fine-tuned model (e.g., character LoRA, product LoRA).

- Selects prompts to generate.

- One-click to generate selected prompts via Astria API.

- Batch generation supported.

5. Result Review

- Clean visual layout showing:

    - Prompt used

    - Reference images used

    - Output image

- Side-by-side comparison mode.

- Ability to download or re-generate with slight tweaks.

Tech Stack / Tools:

- **ChatGPT API**: Custom prompt logic & variation generation.

- **Astria API**: For AI image generation (multi-LoRA supported).

- **Cloud storage**: For reference images and results.

- **Frontend**: Clean UI/UX for visual control.

- **Backend**: Node.js or Python-based for processing prompts & calling APIs.

Unique Selling Points:

- Clear creative control over AI generations.

- Enables multi-image referencing with distinct semantic tagging.

- Offers creative variations, not just one output per prompt.

- Great for professionals creating ads, fashion, storytelling visuals.

UI Wireframes (Overview of Screens):

1. Dashboard

- List of projects

- Button to create a new project

2. Project Brief Screen

- Free text field: "Describe your idea"

- Upload area for reference images (drag-and-drop)

- Tag each reference with dropdowns or editable chips (e.g., lighting, mood, pose)

3. Prompt Generation Screen

- Display project brief and references

- Button: "Generate Prompts"

- Loading animation with progress bar

4. Prompt Variations Screen

- Grid/list of 10 prompt cards

- Each card shows the prompt text

- Buttons: Favorite, Edit, Delete

- Checkbox to select prompts for generation

5. Model Selection + Generation Screen

- Dropdown to select fine-tuned model (LoRA)

- Display selected prompts

- Button: "Generate with Astria"

- Show loading while generating

6. Results Screen

- Gallery view of generated images

- Each image shows:

    - Prompt used

    - Reference tags

- Side-by-side comparison mode toggle

- Buttons: Download, Re-generate

7. Settings / Help

- API key setup (for advanced users)

- FAQs and tips

User Journey:

Step 1: Enter Dashboard

- User sees a list of past projects (thumbnail + brief).

- Clicks "New Project" to begin.

Step 2: Create Project Brief

- Input: Free-text description field.

- Upload multiple image references.

- Tag each image by purpose (e.g., lighting, outfit, pose).

Step 3: Generate Prompts

- Click "Generate Prompts."

- ChatGPT analyzes the input and produces 10 variations.

Step 4: Review Prompts

- View all prompts in a grid.

- Favorite, edit, or delete prompts.

- Select prompts for image generation.

Step 5: Model Selection

- Choose fine-tuned model(s) from Astria.

- Confirm prompts.

- Click "Generate with Astria."

Step 6: View Results

- View image gallery.

- Compare prompt vs. result.

- Download or re-generate with tweaks.

Step 7: Save / Export

- Save full project (prompts + images).

- Option to export for client or share.

Actions + Backend Logic:

1. Enter Dashboard

- *Frontend*: Fetch user project list

- *Backend*:

  - `GET /projects`

  - User auth middleware to return only their data

2. Create Project Brief

- *Frontend*: Form input for text + image upload + tagging UI

- *Backend*:

  - `POST /project`

  - Save project + image metadata

  - Upload images to cloud storage

3. Generate Prompts

- *Frontend*: User clicks "Generate"; loading spinner shows

- *Backend*:

  - `POST /prompts/generate`

- ○ Sends brief + tags to ChatGPT

- ○ Returns 10 prompt variations

4. Review Prompts

- *Frontend*: Grid of editable prompts

- *Backend*:

    - ○ `PUT /project/:id/prompts` (save edits/favorites)

    - ○ Local state or DB cache for selection

5. Model Selection

- *Frontend*: Dropdown UI to choose models

- *Backend*:

    - ○ `GET /models` (fetch available LoRAs from Astria)

    - ○ `POST /generate` (send prompts + LoRA to Astria API)

6. View Results

- *Frontend*: Gallery layout + compare toggle

- *Backend*:

    - ○ `GET /results/:projectId`

    - ○ Link prompts + generated images

7. Save / Export

- *Frontend*: Export as ZIP

- *Backend*:

    - ○ `GET /export/:projectId`

    - ○ Package prompts + images + metadata

Product Specification – Development Task List (MVP):

Frontend Tasks:

1. Build user auth and dashboard UI

2. Project creation screen: text input + image upload + tagging UI

3. Prompt generation trigger + loading component

4. Prompt display grid with edit/favorite/select options

5. Model selection dropdown + generation trigger

6. Result gallery UI with prompt reference linking

7. Export/share functionality

Backend Tasks:

1. User authentication and session management

2. Database models for projects, prompts, references, and results

3. Image upload handling with cloud storage integration

4. Prompt generation service integrating ChatGPT API

5. Astria API integration for image generation

6. Result linking and project tracking

7. Export endpoint to generate downloadable zip

Stretch Tasks:

- Real-time prompt tweaking or regeneration

- Prompt versioning & history

- User feedback analytics on prompt effectiveness

- Collaborative sharing & commenting on projects

User Flow: Prompt Superpower MVP

---

1. Welcome / Onboarding Screen

Prompt:

Create a clean, friendly welcome screen for a creative AI tool.
Background: white to pastel gradient (#F8F5FF to #EDEBFF).
Center: floating glowing orb or AI face animation (like Lóvi).
Text: "Welcome to Prompt Superpower – Your creative prompt assistant."
Subtext: "Upload references. Describe your idea. Get image prompts that actually work."
CTA: **Get Started** (rounded button, purple gradient, glowing).
Optional: "Already have an account? Log In" link below.
Minimal UI, soft animations.

---

2. User Auth (Log In / Sign Up)

Prompt:

Design a login/sign-up screen with dark minimal aesthetic.
Split card layout:

- Left = intro ("Turn your visual idea into AI-generated magic")

- Right = form with inputs (email, password), CTA: **Log In** / **Sign Up**
  Purple gradient CTA, soft shadows, validation indicators.
  Option to use Google login with branded button.
  Footer: "Forgot password?" and link to privacy.

---

3. Dashboard / Project List

Prompt:

Build a dark-mode project dashboard.
Header: "Your Projects"
If no projects exist: icon + message "No projects yet."
CTA: **+ New Project** — floating bottom-right or top-right
Projects shown as cards with:

- Project title

- Date

- Thumbnail or AI orb preview

- Button: "Continue"
  Bottom nav icons: Home, Packs, Profile
  Style: Pastel gradients on buttons, black background (#0B0B0B),
  purple/blue accents.

---

4. Create Project Brief

Prompt:

Create a two-section project input UI.
 Section 1: Free-text field titled "Describe your visual idea" — large box with
placeholder
 Section 2: Upload zone — drag-and-drop area, "Add Reference Images"
 After upload, thumbnails show with mini tags underneath (pose, lighting, mood,
outfit, etc.).
 Tags as editable chips, color-coded.
 CTA: **Generate Prompts** — gradient button, fixed at bottom.
 Style: Soft shadows, glowing border on inputs, dark background.

---

5. Prompt Generation Loading Screen

Prompt:

Design a playful AI-loading screen.
 Large animated orb or pulsing gradient icon (like "What's Happening?" screen).
 Text: "Working on your magic..."
 Subtext: "ChatGPT is crafting 10 prompt variations from your idea."
 Optional: "This may take up to 30 seconds."
 Background: white or dark, depending on light mode toggle.

---

6. Prompt Review + Selection

Prompt:

Display 10 prompt cards in a responsive grid (3 columns).
 Each card shows:

- Prompt title (e.g., "Variation 1")

- Prompt text

- Icons: ⭐ Favorite, ✏️ Edit, 🗑️ Delete

- Checkbox for selection
  Sticky footer with count + CTA: **Next: Choose Model**
  Hover effects: slight lift, outline glow on select
  Style: Dark with vibrant neon outlines for selected cards.

---

7. Model Selection + Final Settings

Prompt:

Design a selection screen for AI model and generation settings.
 Dropdown to select fine-tuned model (LoRA)
 Display list of selected prompts (editable inline)
 Slider: "Images per prompt" (1–6)
 CTA: **Generate with Astria**
 Loading state: glowing orb or progress bar
 Layout: Left = settings, Right = summary preview
 Dark UI with clean form layout, glowing purple CTA.

---

8. Image Generation Loading Screen

Prompt:

A full-screen animated "generating visuals" page.
 Center: glowing orb animation with tiny shimmer particles
 Text: "Generating your images..."
 Subtext: "Astria is bringing your prompts to life."
 Show % progress bar if possible
 Background: animated dark gradient (black → purple)

---

9. Image Results Gallery

Prompt:

Masonry-style gallery for generated visuals.
 Each image card:

- Hover reveals overlay: prompt, tags, download ⬇, regenerate 🔁

- Soft shadows, rounded corners

- Toggle: **Compare Mode** (side-by-side: reference vs output)
  Optional filter: by tag or date
  Style: Dark with light borders, fluid layout, smooth transitions.

---

10. Image Detail View (Compare Mode)

Prompt:

Side-by-side split screen:

- Left = reference image

- Right = generated output

- Text panel below each shows prompt, tags

- Buttons: Download / Regenerate / Save
  Background: dark gray, subtle grid
  Smooth zoom, swipe support on mobile
  Consistent spacing and scroll UX

---

11. Export / Share Modal

Prompt:

Modal with export options.
Title: "Save or Export"
Two large cards:

- "Download All" (ZIP icon)

- "Share Project" (Link icon)
  Subtext: describes what's included
  Button glow on hover
  Toast confirms "Download Ready!"
  Modal: glassy blur background, white text on dark overlay.

---

12. Project Saved / Success Screen

Prompt:

Confirmation screen after export/save
Orb or confetti animation
Text: "Project Saved Successfully"
CTA buttons: "Back to Dashboard" and "Start New Project"
Layout: centered, minimal
Pastel gradient glow

---

13. Settings / Help

Prompt:

Utility screen with tabs for:

- API Keys

- FAQs

- Help & Support
  FAQ in accordion style
  Inputs: subtle glow when focused
  Theme toggle: light/dark
  Very clean, soft layout, cards with icon headers

Optional (Stretch) Screens:

14. Prompt Regeneration Flow

- Prompt card with dropdown to tweak individual elements

- "Regenerate" button inline

- Save versions and compare

15. User Profile / Usage Tracker

- Avatar, projects count

- Usage data: prompts used, image count, last login

- Settings: account management