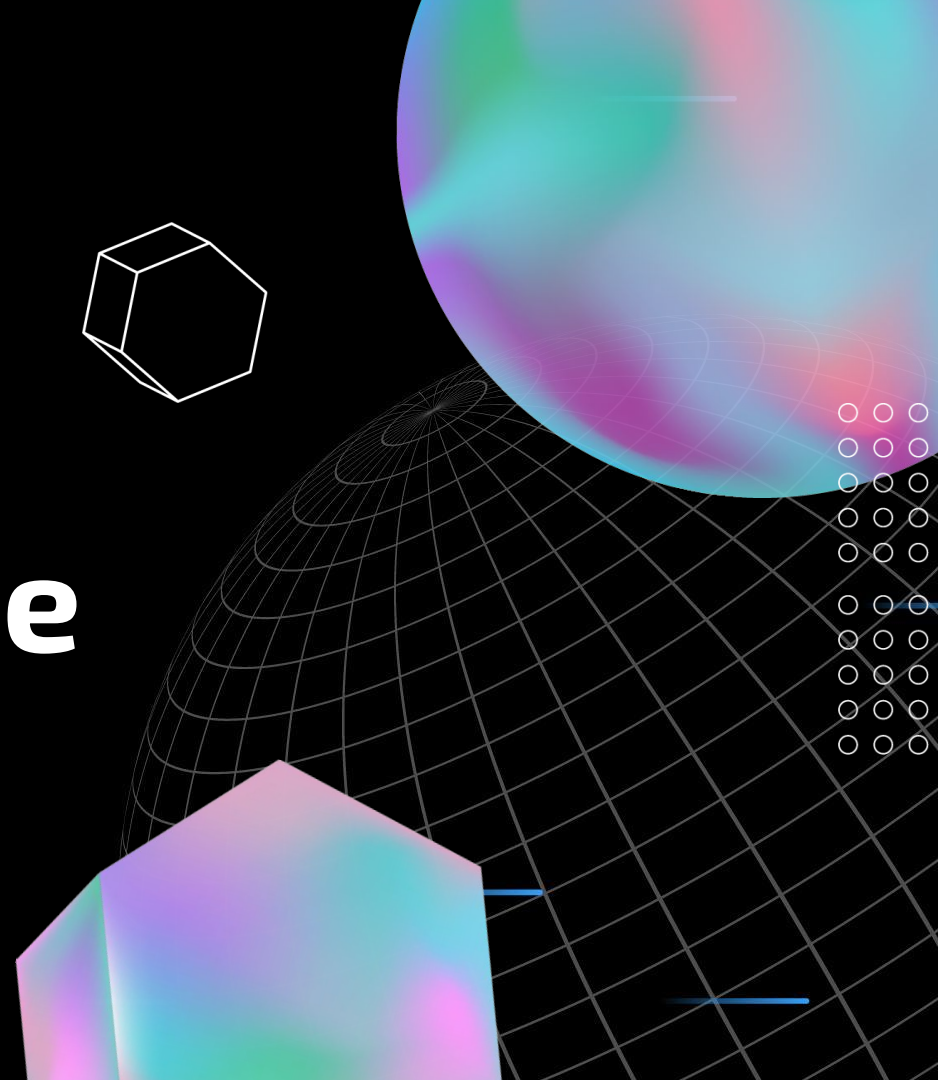
TripoMemories

Preserve Your Memories - in 3D Form

Powered by TripoSR, Google Cloud, Gemini & Imagen

01

Our Purpose

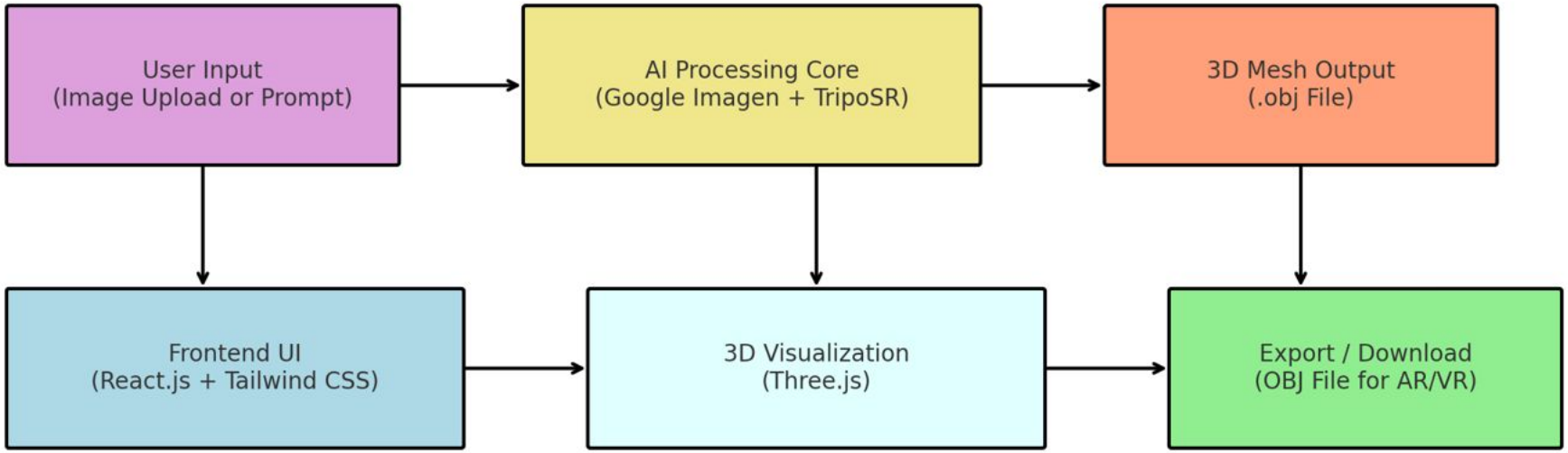


Our Purpose: Giving Memory a 3D Form

- **We turn memories into emotional 3D forms, powered by TripoSR, Google Cloud & Imagen**
- **Anyone can make 3D version of their memories — no design skills needed.**
- **Memories fade. But emotions, they don’t have to**
- We turn meaningful visuals into **touchable, shareable 3D echoes** of real moments.
- These aren't just objects — they're **pieces of human experience**.

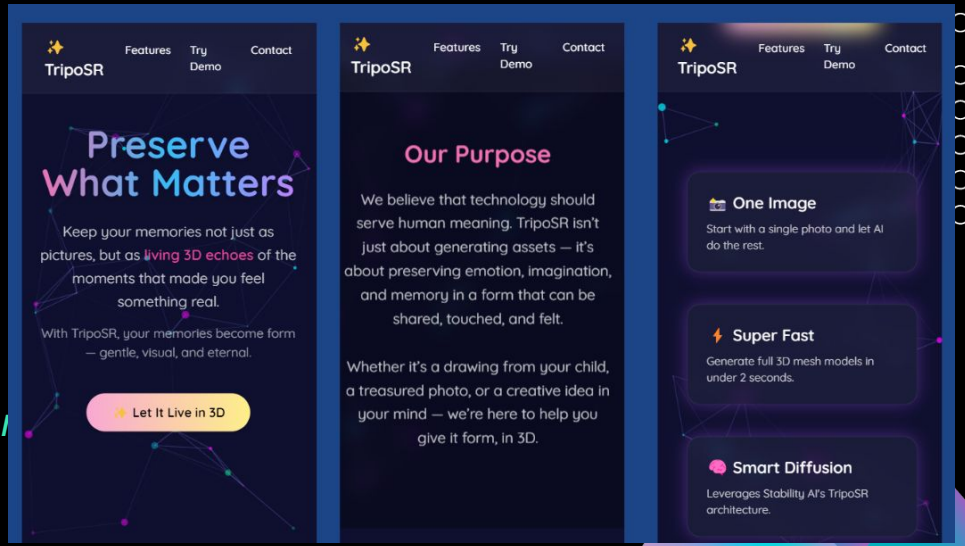
We provide A space where creativity meets generative art, turning imagination into life.

System Architecture



UI/ UX Experience

- Drag-and-drop image upload
- Prompt: "Describe this memory in a sentence"
- Previous preserved memories
- One-click 3D generation experience

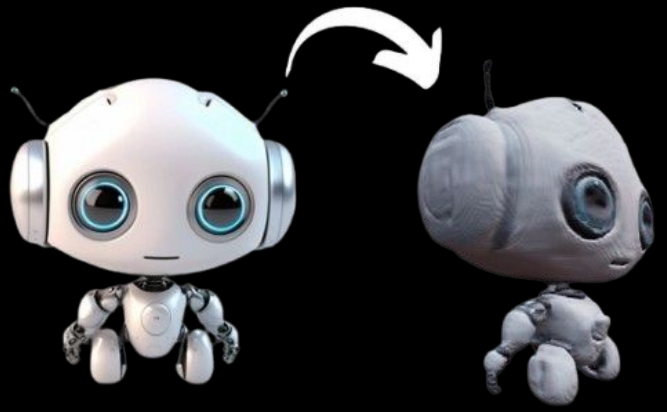


Designed for creative freedo
and emotional clarity.

"Anyone Can Be Creative!"

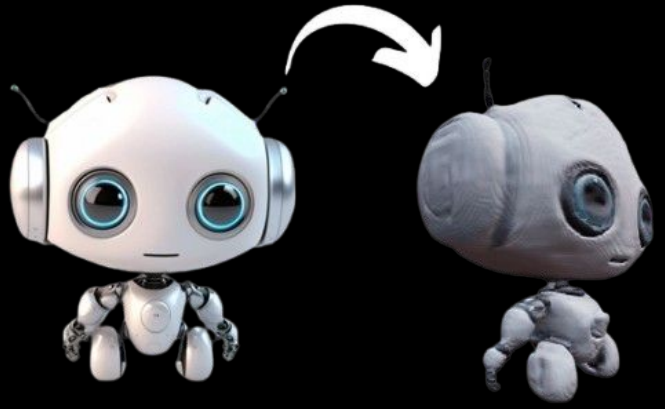
Backend Flow (Powered by Stability AI's TripoSR)

- Integrated **Vertex AI Imagen** (text-to-image)
- Used **TripoSR** locally for fast 2D-to-3D mesh generation
- Backend built with **FastAPI**, served via **Uvicorn**
- Opened **port 8000** with GCP **firewall rules** for public API access
- Handles both **text prompts** and **image uploads** to generate .obj files
- Deployed on **Google Cloud VM**



FrontEnd Meets Backend

- Connected to **Google Cloud Platform** for seamless frontend-backend ops
- Fetches result from backend and visualizes via **Three.js**



Why We're a Standout in Generative AI + Google Tech

Built on **Google Cloud** for speed, scalability, and real-time generation

Leveraged **Imagen AI** for high-quality, realistic visual outputs

Inspired by Gemini's human-centered direction — our project focuses on **emotions, memories, and creativity**

Smooth pipeline from user input → cloud processing → 3D visual output

We're not just using Google tools — we're **pushing their creative boundaries**

We show how Google's tech stack can power **emotional, creative, and meaningful AI experiences**.

How We Redefine Creativity with Generative AI

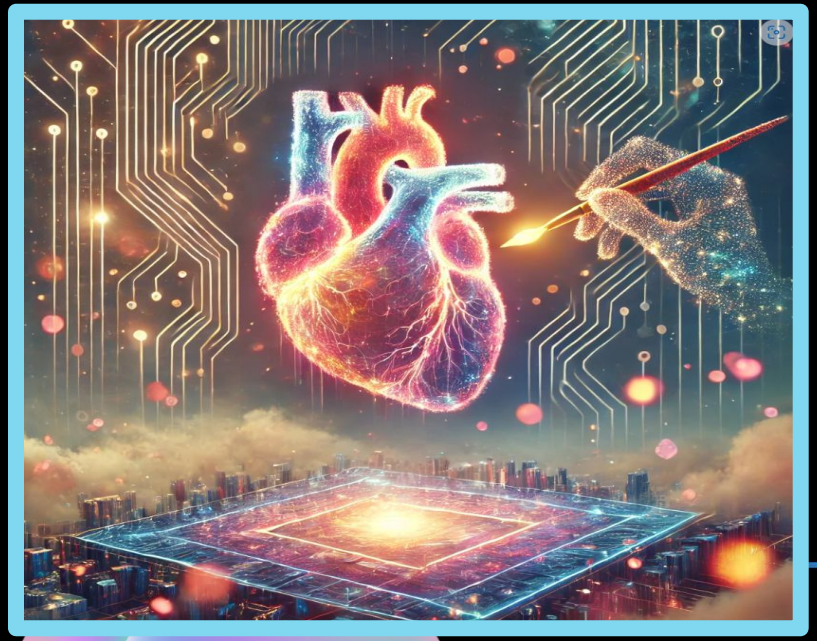
- We turn memories into **emotional 3D artworks** — not just static outputs
- Blend of **human intention + AI generation** — it's co-creation, not automation
- Visual storytelling powered by **imagination, memory, and feeling**
- Makes 3D design accessible to **non-technical users**
- Designed to inspire — **personal, expressive, and beautiful**

We're not just using AI to create — we're using it to **empower humans to express**.

What We Envision

- Where tech meets heart.

  Where creativity meets code.
  And Where art meets AI.

- Future applications in **memory museums**, **personal storytelling**, and even **grief therapy.**

"Because YOUR memories deserve more than just storage — they deserve to be brought to life in 3D."