# Prototype Submission — AI Heritage Restorer & Culture Preserver

## 1. Problem Statement

India's cultural treasures—old photographs, manuscripts, and videos—are rapidly degrading.

**Who is affected:**

- **Students** → Forced to study dull, static textbook content.

- **Tourists** → Miss immersive cultural experiences.

- **Families** → Risk losing old memories & personal heritage.

- **Museums/Schools** → Lack affordable digital revival systems.

**Why it matters:**
 Without preservation, India risks losing personal and national heritage. Current systems are costly, inaccessible, or non-interactive. We need an AI-powered solution that is low-cost, engaging, and scalable.

## 2. Your Solution

We propose a Web App Prototype: AI Heritage Restorer & Culture Preserver.

**Core Features:**

- Upload old photos, manuscripts, or documents.

- AI restores clarity & adds realistic colors.

- GPT generates short engaging cultural stories.

- TTS narrates history in multiple Indian languages.

- Before vs After preview + option to download/share.

✨ **Unique Value:** A mix of visual + audio + storytelling, built using OpenAI APIs.

## 3. Use of OpenAI APIs

- **GPT-4o** → Text generation, converting dull descriptions into stories.

- **DALL·E** → Image restoration & colorization.

- **Whisper** → Converting old audio recordings/interviews to text.

- **TTS (OpenAI Voice Models)** → Narration in Indian languages.

**Workflow:**
 Upload → DALL·E restore → GPT story → TTS narration → Output (preview + share).

## 4. Feasibility

**Tech Stack:**

- **Frontend** → React.js / Tailwind / HTML-CSS (for prototype, Figma mockups + Replit).

- **Backend** → Python (Flask/FastAPI).

- **AI Tools** → OpenAI APIs (DALL·E, GPT, Whisper, TTS).

- **Hosting** → Replit / Vercel.

**Prototype Scope (for Demo):**

- Restore **1 black & white photo**.

- Narration in **English + Hindi**.

- Show **Before/After** side by side.

- Provide **Download/Share** option.

## 5. Prototype Demo (User Journey)

📸 **Example Flow with Taj Mahal:**

1. **Upload:**

   - User uploads a 1930s black & white photo of the *Taj Mahal*.

2. **Restore & Colorize:**

   - **DALL·E** restores clarity and adds realistic marble-white shine with sky and garden colors.

3. **Generate Story:**

   - **GPT** produces text:
     *"The Taj Mahal, built in 1632 by Emperor Shah Jahan, is a timeless symbol of love. Located in Agra, this white marble wonder blends Persian, Indian, and Islamic styles. Recognized as a UNESCO World Heritage site, it attracts millions of visitors each year."*

4. **Narration:**

   - **AI TTS** narrates in **English + Hindi**:

     - English: *"The Taj Mahal is a symbol of eternal love and heritage."*

     - Hindi: *"ताजमहल अनन्त प्रेम और धरोहर का प्रतीक है।"*

5. **Cultural Note (Preservation Angle):**

   - *"The Taj Mahal continues to inspire Mughal art, poetry, and traditions. Friday prayers are still held at its mosque, keeping cultural heritage alive."*

6. **Output:**

   ○ User sees Before vs After images side by side.

   ○ Short narrated clip (optional video) available for download/share.

# 6. Team Details 👥

- **Member 1 – UI/UX Designer & Integrator (Figma + Replit)**

  ○ Create wireframes/screens, app layout.

  ○ Build basic prototype in Replit (upload button, preview, description).

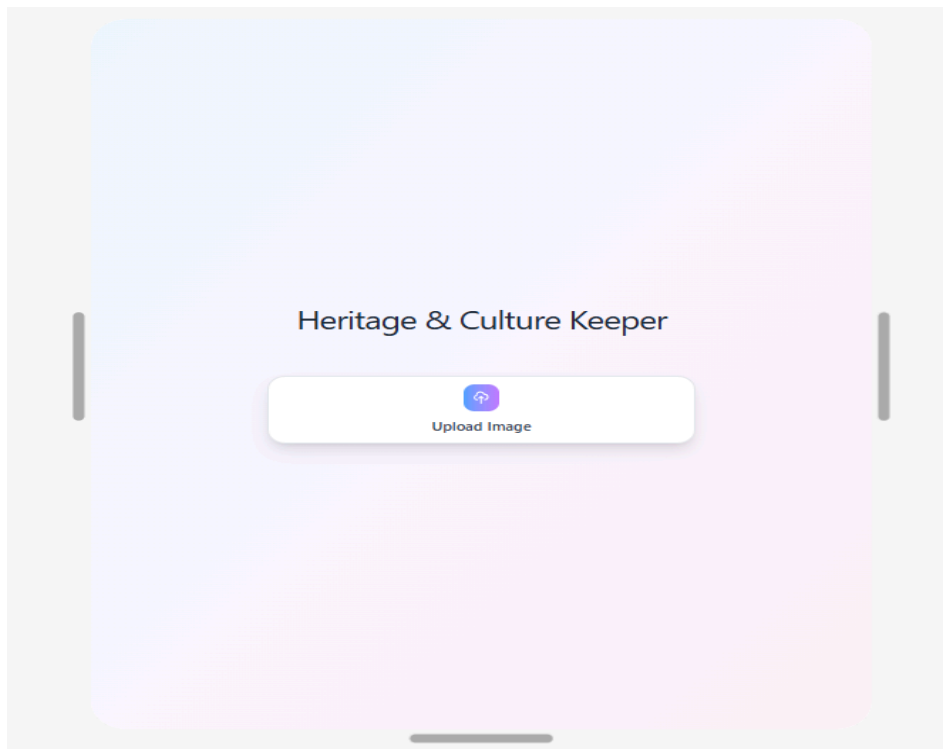- **Member 2 – Storytelling & Narration Lead (GPT + TTS)**

  ○ Use GPT to generate cultural stories/descriptions.

  ○ Add TTS voice narration in English/Hindi.

  ○

- **Member 3 – AI Media Specialist (DALL·E + Whisper)**
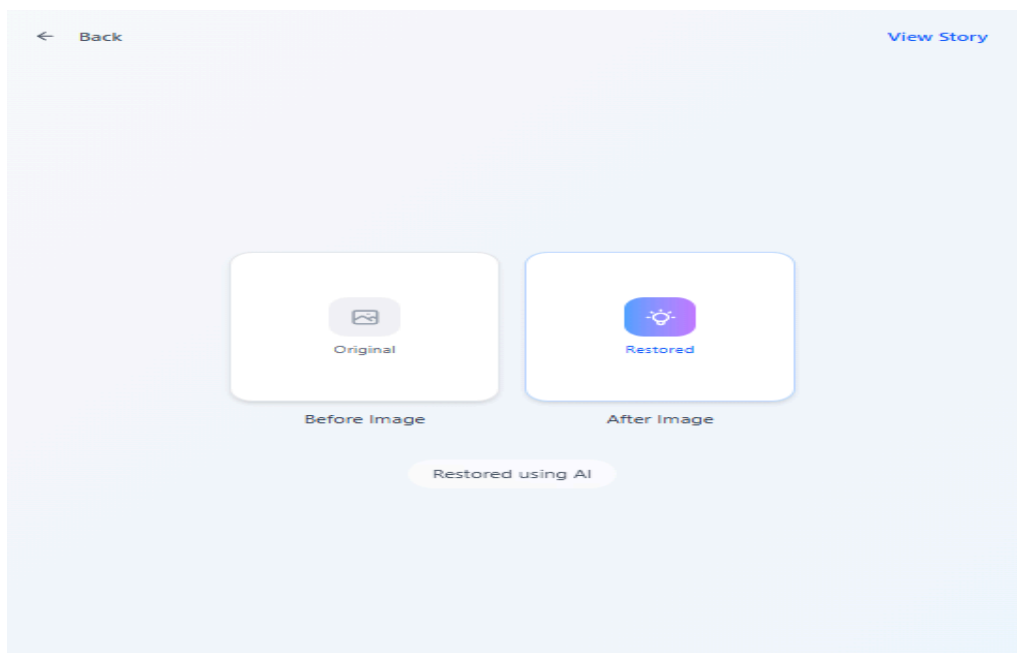
  ○ Generate Before/After restored images.

  ○ Test audio-to-text (Whisper) with any demo cultural audio.
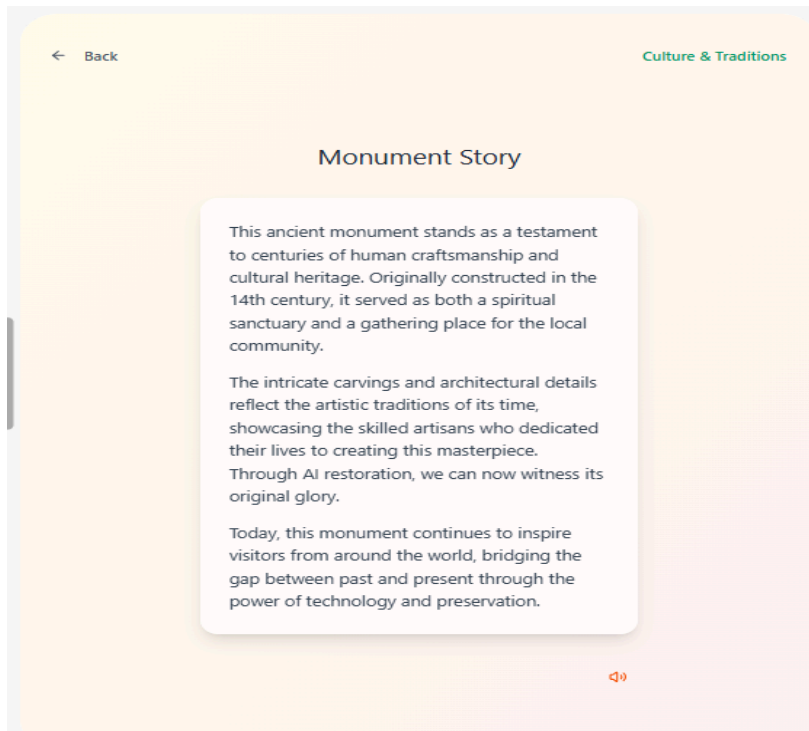
# 7. Screenshots / Wireframes

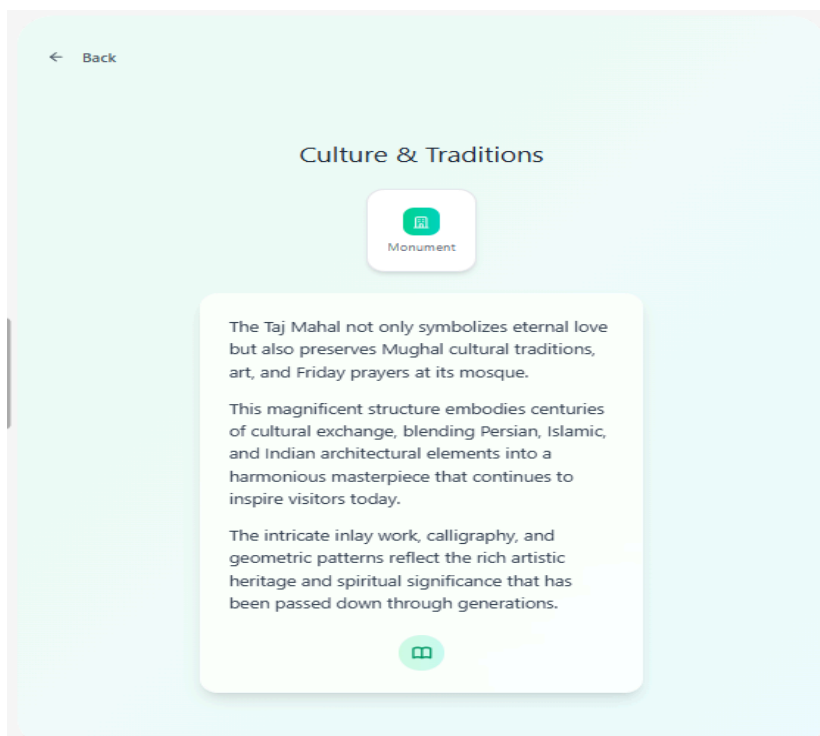- **Home Screen** → Upload Button + Quick Intro



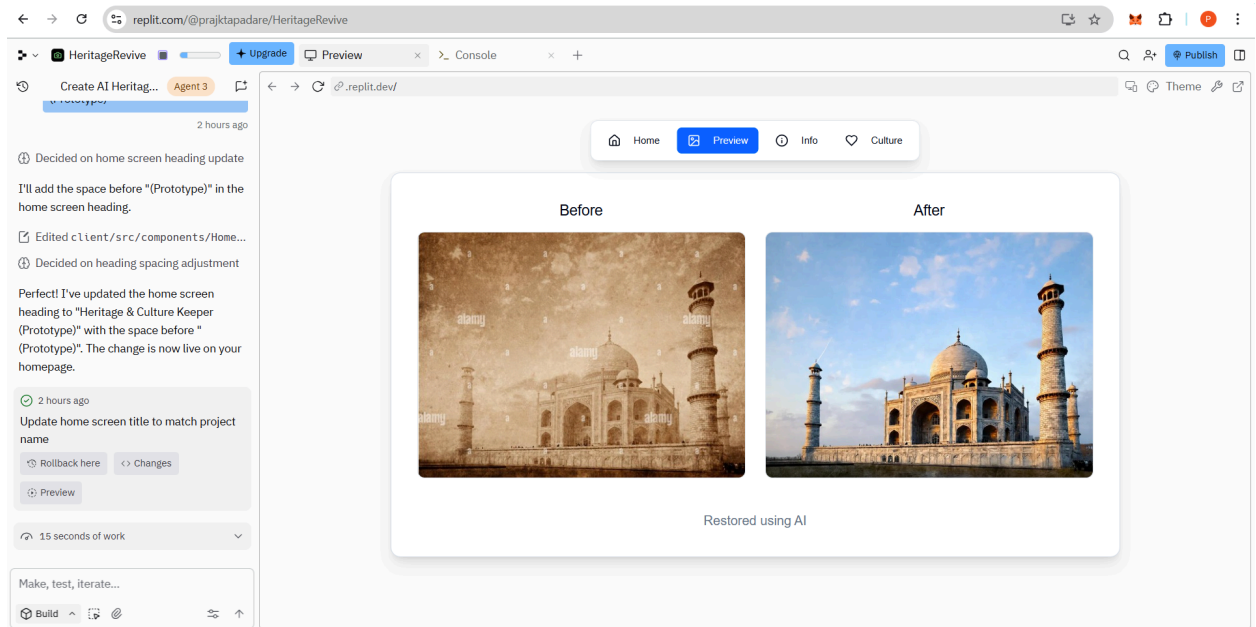- **Preview Screen** → Before vs After comparison

## Monument Story

This ancient monument stands as a testament to centuries of human craftsmanship and cultural heritage. Originally constructed in the 14th century, it served as both a spiritual sanctuary and a gathering place for the local community.

The intricate carvings and architectural details reflect the artistic traditions of its time, showcasing the skilled artisans who dedicated their lives to creating this masterpiece. Through AI restoration, we can now witness its original glory.

Today, this monument continues to inspire visitors from around the world, bridging the gap between past and present through the power of technology and preservation.

🔊

- **Info Screen** → Cultural Story text + Speaker Icon for narration.

## Culture & Traditions

Monument

The Taj Mahal not only symbolizes eternal love but also preserves Mughal cultural traditions, art, and Friday prayers at its mosque.

This magnificent structure embodies centuries of cultural exchange, blending Persian, Islamic, and Indian architectural elements into a harmonious masterpiece that continues to inspire visitors today.

The intricate inlay work, calligraphy, and geometric patterns reflect the rich artistic heritage and spiritual significance that has been passed down through generations.

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**Replit App Image**



# 8. Demo Link Placeholders

- GitHub Repo:
  https://github.com/Prajkta11222/AI-Heritage-and-Culture-Preserver-Prototype-.git

- Replit Demo:
  https://cd3d8448-d5dd-4701-825c-677ed5a3b8ed-00-1ifihrnis4goh.picard.replit.dev/  or

  Demo Video: 🎬 prototypedemo.mp4

- Figma Mockups:
  https://www.figma.com/make/ToOtJBZVYmnaGO5mM9zcQP/Design-AI-Heritage-Restorer-UI?node-id=0-4&t=89W3SGhSjuxpGvDk-1

# 9. Impact

- **Education:** Makes history engaging through stories + visuals.

- **Tourism:** Revived monuments attract interest.

- **Families:** Digital preservation of memories.

- **Culture:** Safeguards Indian heritage for future generations.

## 10. Pitch Tagline

🪔 *"Reviving India's Past with the Power of AI – from black & white to colorful stories."*

Team Name : Root Rebuilders

Member Names:

1.Prajkta Padare

2.Neha Asole

3.Riya Nitnaware