

AI for Bharat Hackathon

Powered by **aws**



Team Name: Avvarl for Bharat

Team Leader Name: Manjunath Venkata Avvari

Problem Statement: Build an AI-powered solution that supports rural ecosystems, sustainability, or resource-efficient systems.

Brief about the Idea:

Heritage Lens AI: Digitizing India's Cultural Legacy

The Vision: Transforming silent stones into storytellers by providing pilgrims with an **AI-powered multimedia experience** at heritage sites like Lepakshi Temple through simple **QR code interaction**.

Core Pillars

Instant Access: Scan QR codes on pillars or statues to unlock deep historical and mythological insights without physical guides.

Multimodal Delivery: AI-generated cinematic **videos**, architectural **infographics**, and high-quality **audio narrations**.

Inclusivity & Language: Real-time, multilingual support in **Telugu, Hindi, and English** to serve diverse domestic and global visitors.

Interactive Learning: A **GenAI Assistant** allows visitors to ask follow-up questions about specific artifacts using natural language.

Your solution should be able to explain the following:

- **How different is it from any of the other existing ideas?**

Multimedia Integration over Static Text: Unlike typical QR code implementations that merely lead to a Wikipedia page or a static PDF, this solution delivers **AI-generated cinematic videos** and natural-sounding **audio narrations** specifically tailored to the artifact being viewed.

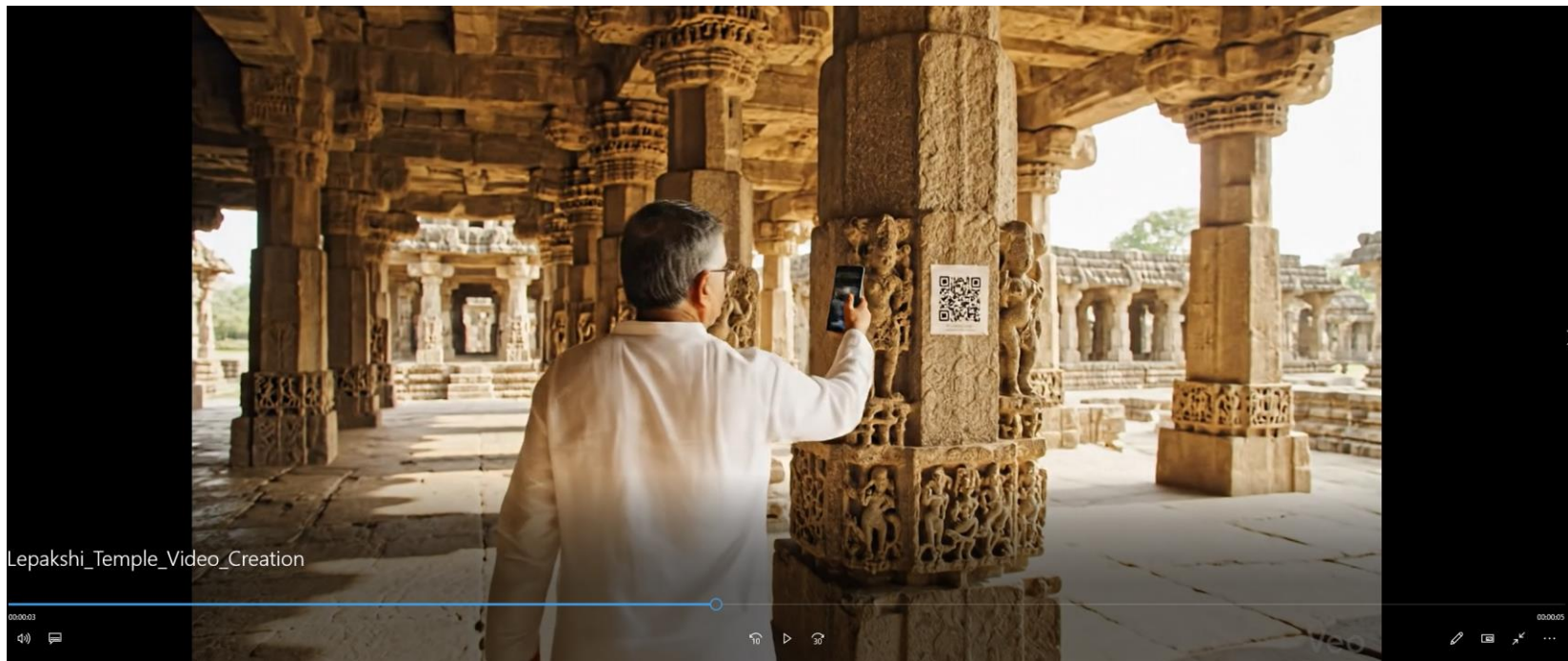
- **How will it be able to solve the problem?**

Eliminating Information Gaps: It provides high-quality historical context in areas where physical guides may be unavailable, unaffordable, or lack deep specialized knowledge.

- **USP of the proposed solution**

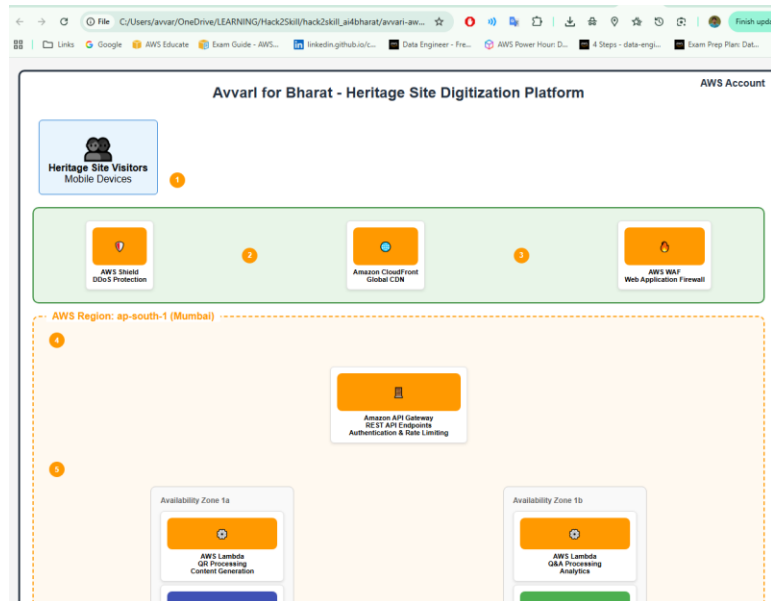
"The Living Stone" Experience: Our USP is the **Heritage AI Assistant**. It transforms a physical scan into a two-way conversation, allowing the pilgrim to ask, *"Why does this specific pillar hang?"* and receive an instant, accurate answer based on verified historical data.

List of features offered by the solution



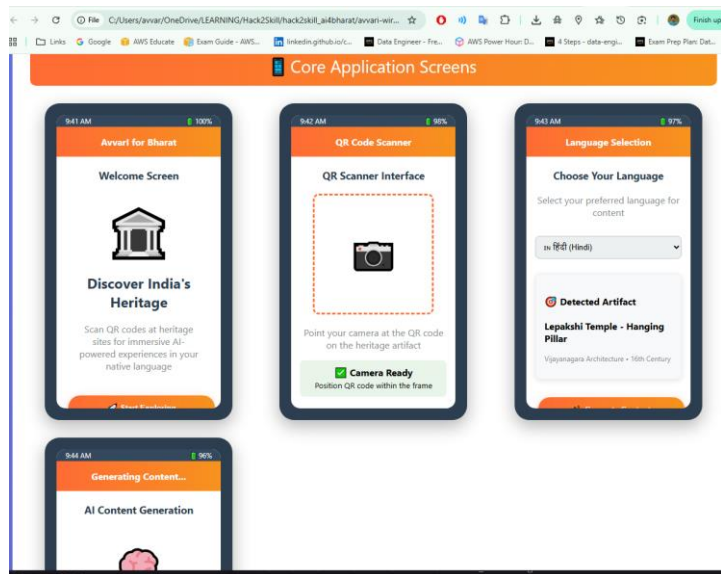
Process flow diagram or Use-case diagram

https://github.com/avvarimanju/hack2skill_ai4bharat/blob/main/avvari-aws-architecture.html



Wireframes/Mock diagrams of the proposed solution (optional)

https://github.com/avvarimanju/hack2skill_ai4bharat/blob/main/avvari-wireframes-mockups.html

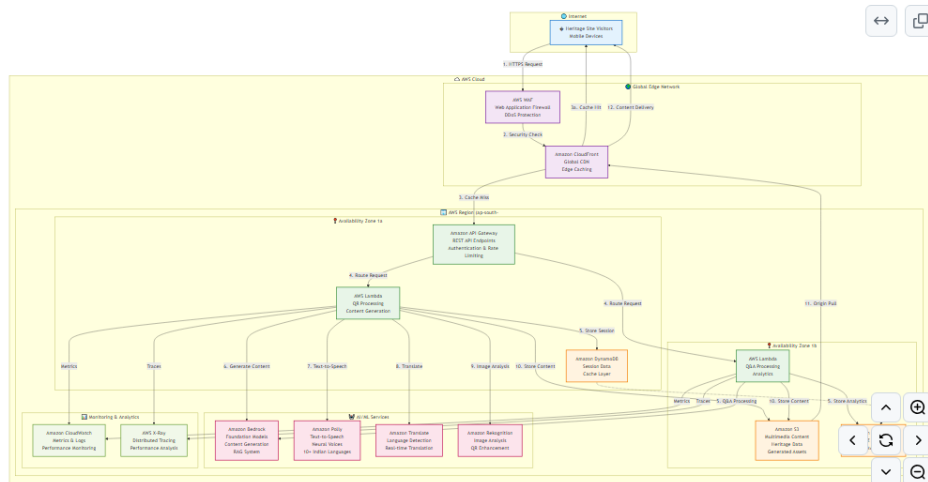


Architecture diagram of the proposed solution:

https://github.com/avvarimanju/hack2skill_ai4bharat/blob/main/avvari-architecture-diagram.md

Avvarl for Bharat - AWS Architecture Diagram

AWS Cloud Architecture



Technologies to be used in the solution:

- Project Vision:** Transforming silent temple artifacts into interactive storytellers through an AI-powered multimedia platform for pilgrims.
- Core Interaction:** Visitors scan strategic QR codes on sculptures (Shilpams), pillars, and statues to unlock instant digital context.
- Multimedia Delivery:** Provides a coordinated suite of AI-generated cinematic videos, architectural infographics, and detailed audio guides.
- Language Inclusivity:** Features high-fidelity audio narrations in regional Indian languages (e.g., Telugu, Hindi) and English via Amazon Polly.
- GenAI Heritage Assistant:** A conversational chatbot powered by Amazon Bedrock allows visitors to ask real-time, deep-dive questions.
- Problem Solved:** Democratizes expert historical knowledge at rural sites where specialized human guides are unavailable or expensive.
- Key Differentiator:** Unlike static QR codes, this uses RAG (Retrieval-Augmented Generation) to provide dynamic, verified, and interactive responses.
- The Tech Stack:** Built on a robust AWS serverless architecture including Lambda, DynamoDB, S3, and Amazon Bedrock.
- Rural Innovation:** Boosts local tourism economies by making remote heritage sites globally accessible through scalable technology.
- Sustainable Impact:** Creates a digital archive of oral histories and temple legends, preserving Bharat's cultural soul for future generations.

Estimated implementation cost (optional):

Add as per the requirements for the hackathon:

Vision: Transforms silent heritage artifacts into interactive storytellers through a multimodal, AI-powered platform for pilgrims and tourists.

Language Inclusivity: Provides natural-sounding, multilingual narrations in regional vernaculars (e.g., Telugu, Hindi) and English via **Amazon Polly**.

GenAI Heritage Assistant: Features a conversational chatbot powered by **Amazon Bedrock** for real-time, interactive deep-dives into artifact history.

Innovation partner **I12S**
HACKZATLL

Media partner **YOURSTORY**

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Thank You

