

SMART INDIA HACKATHON 2025



Problem Statement ID- 25061

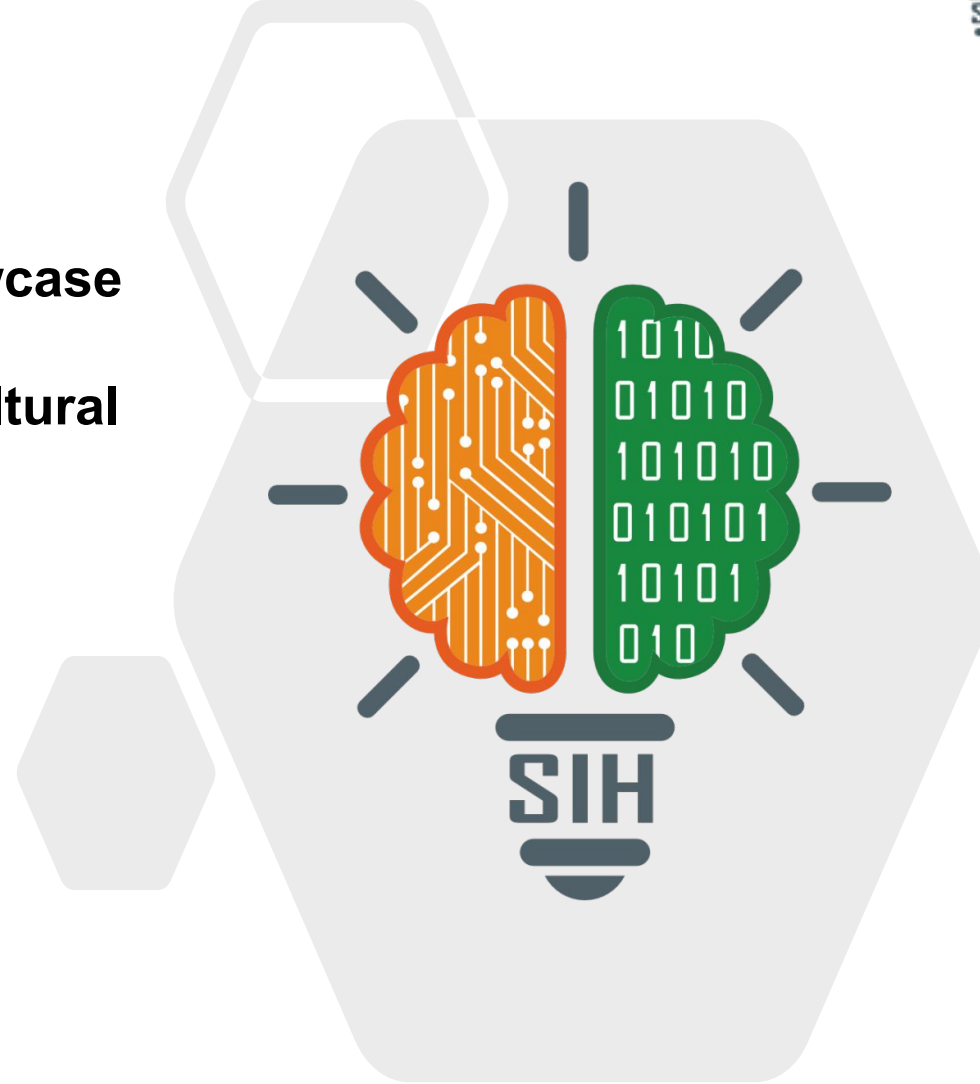
**Problem Statement Title-Digitize and Showcase
Monasteries of Sikkim for Tourism and Cultural
Preservation**

Theme- Travel and Tourism

PS Category- Software

Team ID

Team Name- NHK.ai



MONASTERY 360

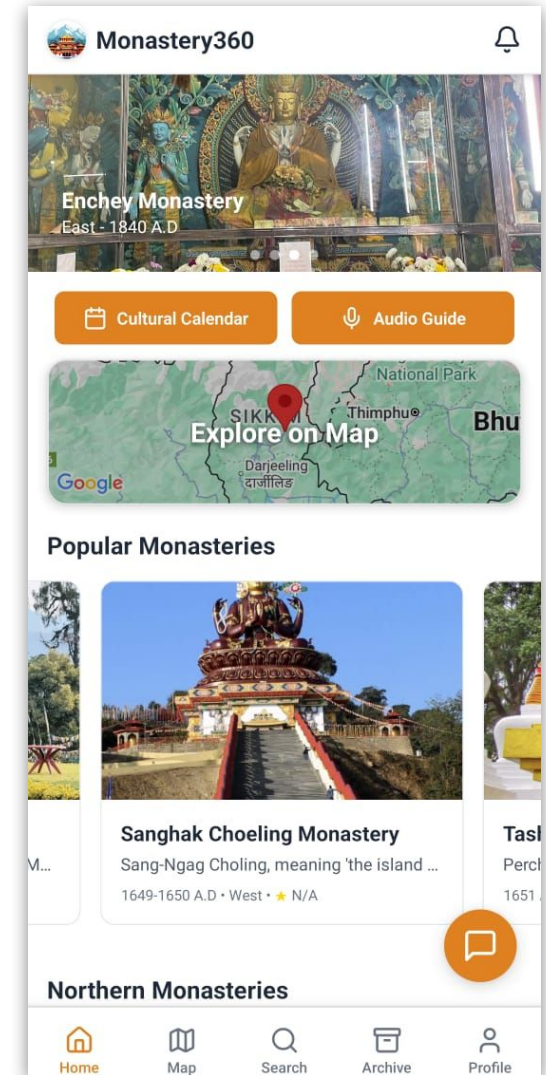


Proposed Solution:

Monastery360 is a comprehensive, AI-powered mobile application designed to be the ultimate digital companion for exploring the spiritual and cultural heritage of Sikkim. Our solution is a one-stop platform that addresses all aspects of a visitor's journey, from pre-trip planning to on-site exploration and historical discovery.

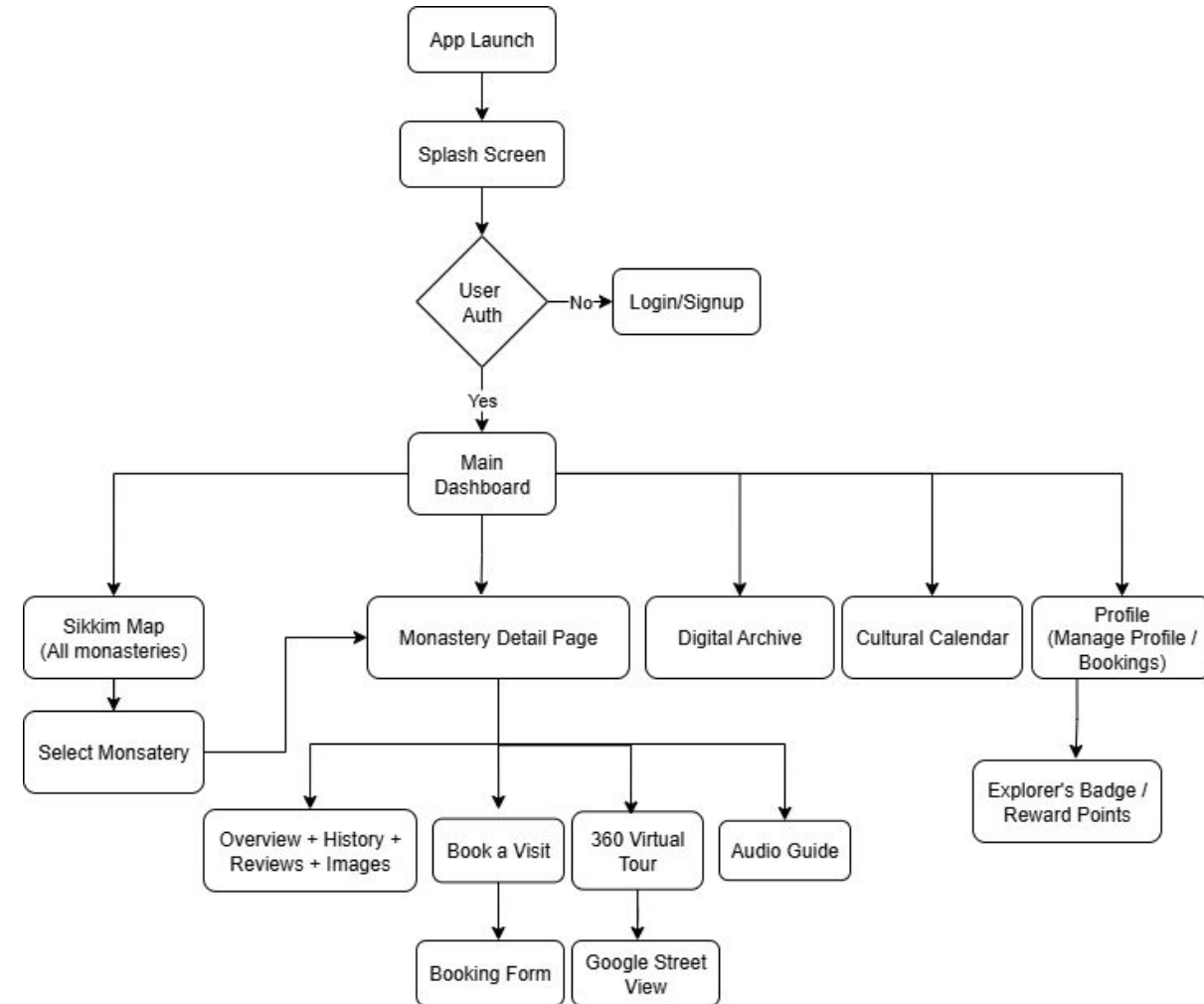
Key Features:

- **All-in-One Information:** Centralized data on monasteries, eliminating the need for scattered searches.
- **Immersive Exploration:** Audio guides and 360-degree virtual tours enhance the on-site and pre-visit experience.
- **Community Building:** Features for reviews, bookings, and rewards foster engagement and connection.
- **RAG-based Chatbot:** An intelligent chatbot that provides nuanced information and assists with bookings.
- **Gamified Experience:** Reward points and badges encourage exploration and deeper engagement.
- **Digital Preservation:** A dedicated digital archive section to preserve Sikkim's rich history.
- **360-degree Virtual Tours:** A unique, immersive feature that allows users to virtually walk through monasteries.



Technologies Used :

- **Mobile app:** Expo + React Native (TypeScript), expo-router, React Navigation
- **UI/animations:** React Native Reanimated, Lucid Icons
- **Maps & geo:** react-native-maps / expo-maps, expo-location, Google Maps (SDK + Street View)
- **Backend & data:** Supabase (Postgres, Auth, Storage) with session via AsyncStorage and RLS policies
- **AI/assistant:** Retrieval over monastery data with Gemini 1.5 Flash integration
- **Internationalization:** i18next (English, Hindi, Nepali)
- **Build & delivery:** Expo Application Services (EAS), env-driven config (.env via app.config.js)
- **Hardware:** Android/iOS smartphones with GPS and internet; speaker/headphones for audio guide



Feasibility:

- **Technical:** The app relies on established technologies (mobile platforms, cloud databases) and newer technologies of LLMs and AI.
- **Operational:** The team has the necessary skills. Partnerships with the Sikkim Tourism Department will streamline data collection.
- **Economic:** Initial development costs are manageable, with multiple long-term revenue streams planned.

Strategies to Overcome Challenges:

- **Data Collection:** Collaborate with local authorities and implement a community-driven contribution model with content verification.
- **User Adoption:** Launch targeted marketing campaigns and highlight the unique AI chatbot and 360° tours.
- **Monetization:** Explore a blend of partnerships with local businesses, government grants, and a premium subscription option.

Challenges & Risks:

- **Data Collection:** Ensuring accuracy and completeness of monastery data and high-quality 360° images.
- **User Adoption:** Gaining traction in a competitive market and encouraging new users to download the app.
- **Monetization:** Finding a non-intrusive business model that doesn't compromise the user experience.



Single Source of Truth

A centralized, authoritative database for all monastery information



Enriched Experience

Immersive audio guides and seamless booking create a meaningful journey



Preserving Heritage

Digital archives ensure the preservation of Sikkim's intangible heritage



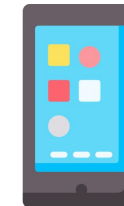
Economic Boost

Drives revenue for local businesses and communities through increased tourism



Multilingual support

ensures accessibility for diverse audiences, including Sikkim communities and international tourists.



Aligned with Digital India

We support the "Digital India", using technology to promote cultural heritage and domestic tourism

Reference Links

<https://www.sikkimdarshan.com/> -> Information on Monasteries

<http://sikkimeccl.gov.in/EcclHomePage.aspx> -> Information on Monasteries

<https://eap.bl.uk/search?query=sikkim+monastery> -> Digital Archives

<https://maps.google.com> -> Location and Virtual Tours of Monasteries