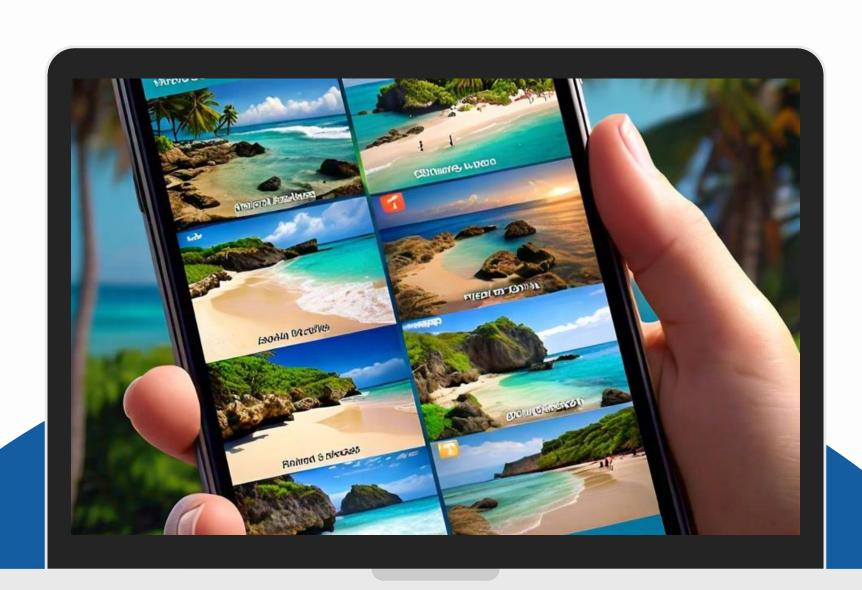
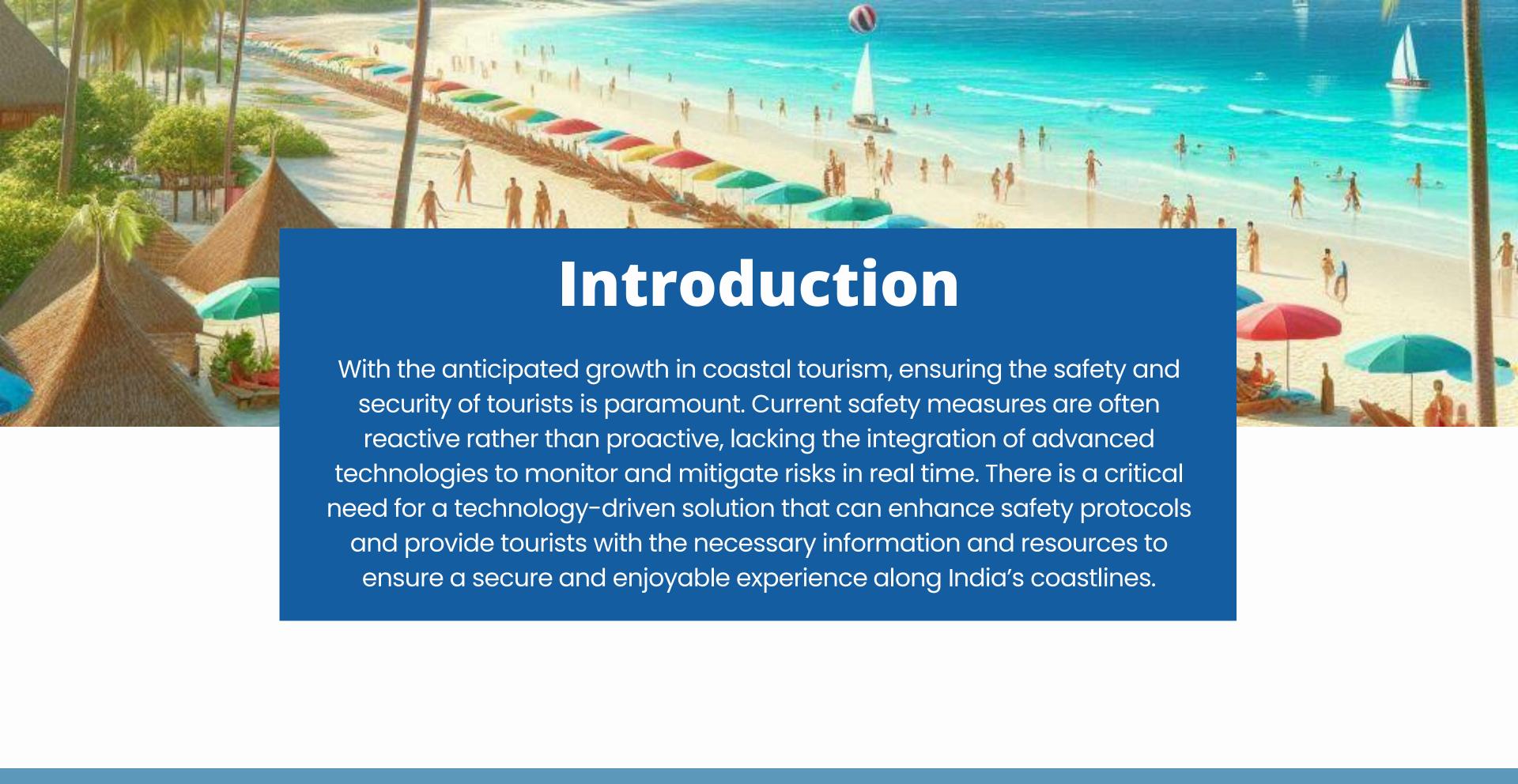


SIH-1656: Development of a mobile application to provide recreational suitability information of beach locations across India.

Team Members:

- 1. Nitin Goyal
- 2. Rashid Siddiqui
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- 4. Vasu Goel
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Proposed Solution



Data Integration and Analysis

Leverage INCOIS API to collect real-time data on ocean alerts, wind conditions, and water quality. Process and analyze this data to assess the safety of selected beaches.



Safety Evaluation and Recommendations

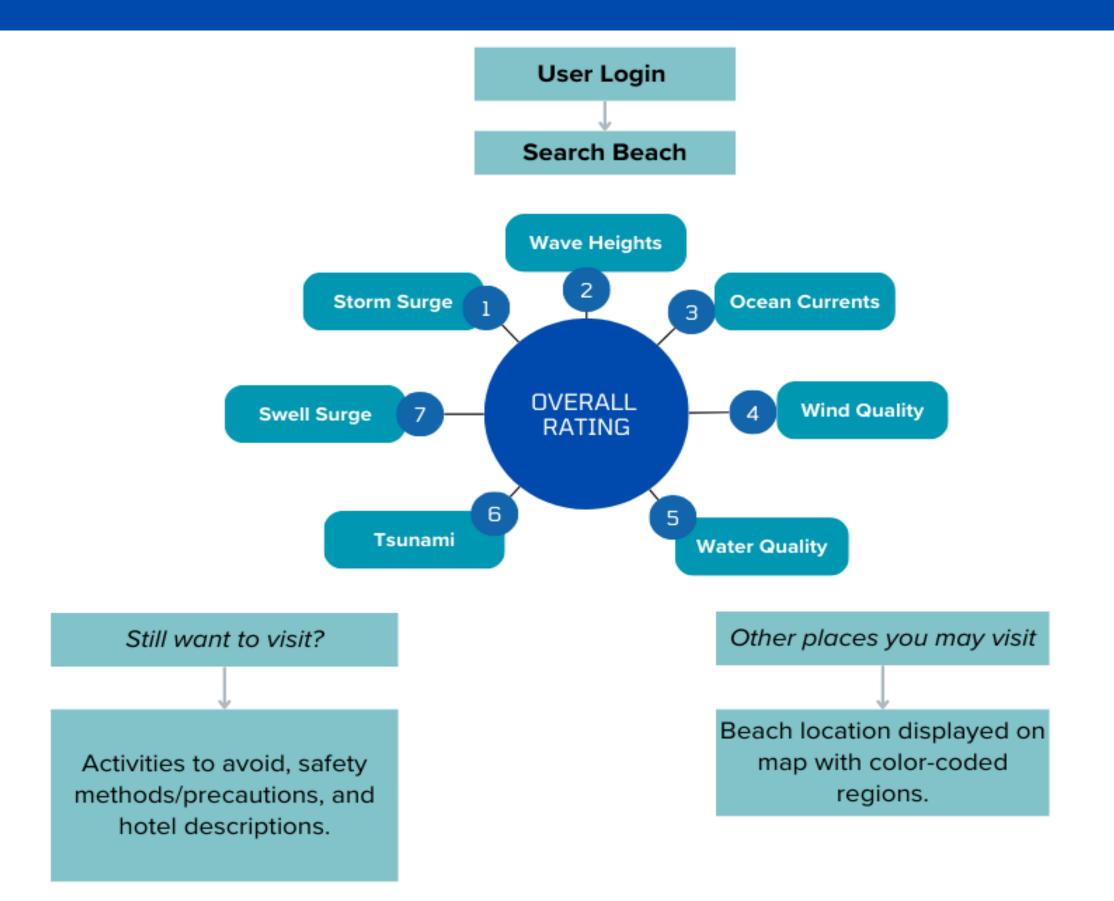
Implement algorithms to evaluate the safety of beaches based on current conditions. Provide users with recommendations for alternative safe beaches if the chosen location is deemed unsafe.



User-Centric Visualization

Design an intuitive user interface that guides users through the journey of searching for beaches, checking real-time safety information, and receiving alternative recommendations.

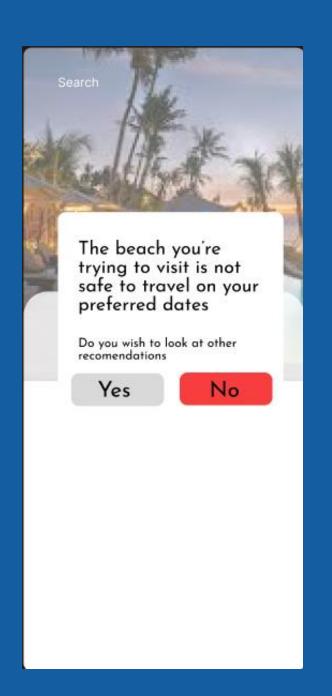
Thought Process



Some insights of our product











Unique Selling Points

This app aims to create a safer coastal tourism experience by empowering tourists with the information and tools they need to stay safe while enjoying India's beautiful coastlines.

01

Real-Time Safety Alerts: The app provides instant notifications about unsafe beach conditions by continuously monitoring data from the INCOIS API, helping users make informed decisions.

02

Geospatial Visualisation: An interactive, color-coded map displays the safety status of beaches, allowing users to quickly assess and choose safe locations based on real-time data.

03

Personalised Recommendation: The app suggests alternative beaches tailored to user preferences if the selected beach is unsafe, ensuring a personalized and safe experience.

04

The app uses reliable data from INCOIS for accurate safety assessments, leveraging government-sourced information on ocean conditions and water quality.

Business Model



Freemium Model

Basic safety information for free; premium insights and features with subscription.



Partnerships

Collaborations with tourism boards, beachside businesses, and travel agencies.



Advertisements

Targeted ads for nearby restaurants, hotels, and tour operators.

Tech Stack

Android: Mobile app development for wide user reach.

Flask: REST API creation using Python.

Python: Machine learning models to predict beach safety.

Firebase: For authentication, real-time database, and cloud storage.















THANK YOU!