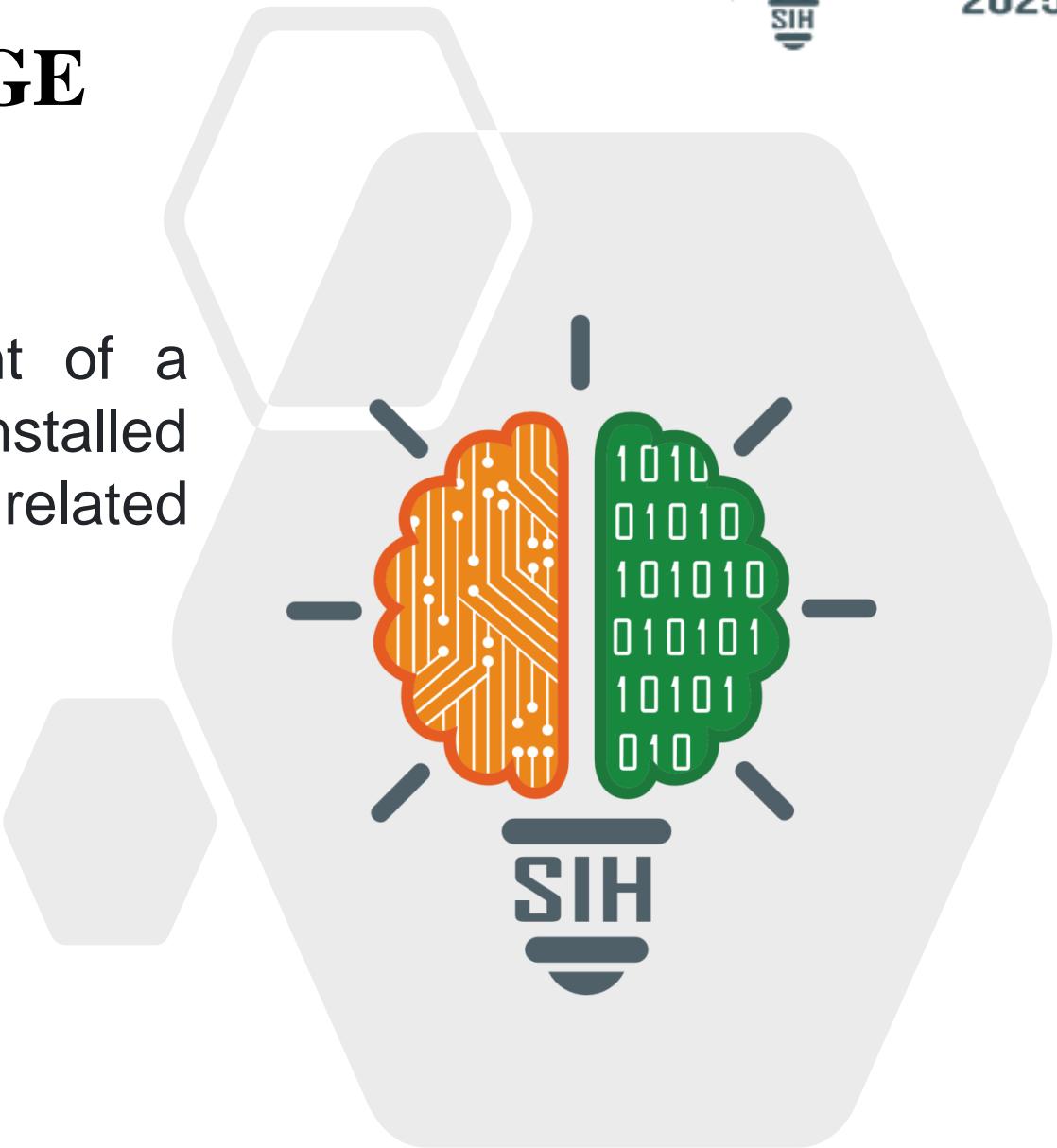


# SMART INDIA HACKATHON 2025



## TITLE PAGE

- **Problem Statement ID** - SIH25082
- **Problem Statement Title**- Development of a travel related software app that can be installed on mobile phones that could capture trip related information
- **Theme**- Travel & Tourism
- **PS Category**- Software
- **Team ID**- AI\_DRIFTERS\_SIH25013
- **Team Name** - AI\_DRIFTERS



## Proposed Solution

- Plan & Go:** Create and manage trips, add them to your calendar, and discover popular destinations.
- Navigate Smarter:** Get real-time GPS navigation, access offline maps, and find nearby places of interest.
- Stay on Budget:** Track and split expenses with friends, then export your data for easy analysis.
- Capture the Journey:** Automatically create a digital timeline of your trip by adding photos, notes, and tickets.
- All in One Place:** Store all your booking details for flights, trains, and hotels in one convenient location.
- Review & Reflect:** Get a summary of your travels, including distance traveled and total money spent.



# TECHNICAL APPROACH

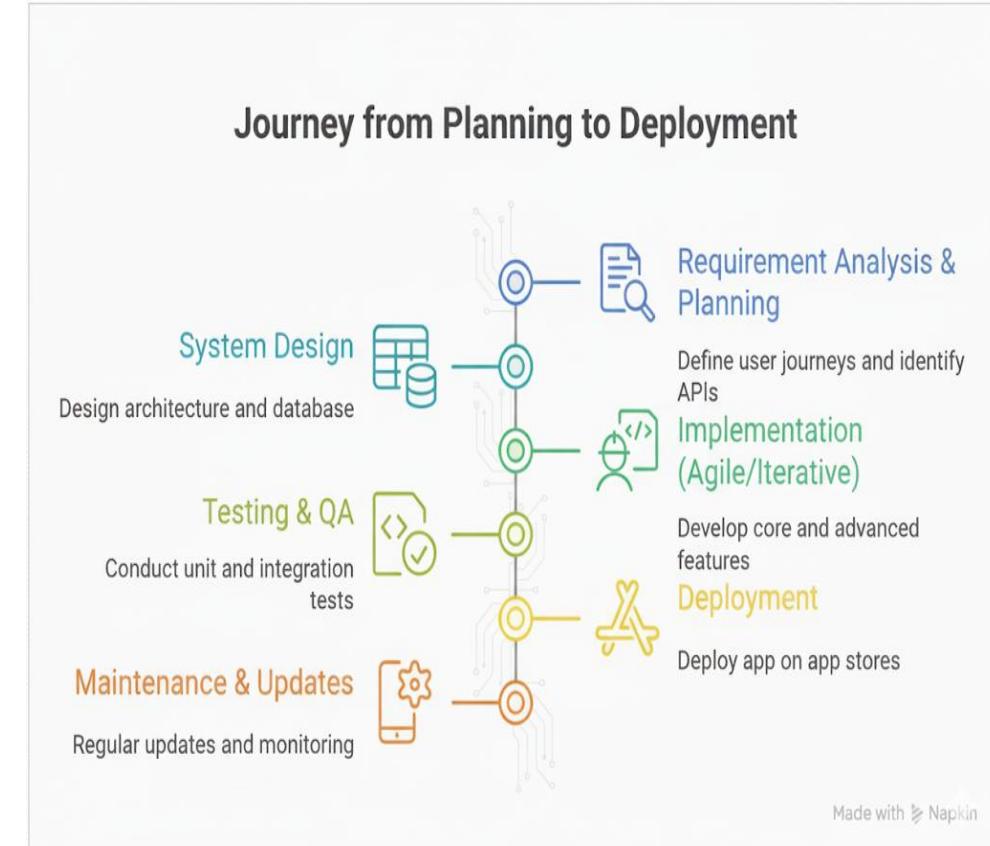


## Technologies



## Methodology

- Requirement Analysis:** Define app modules (e.g., trip planning, expenses)
- System Design:** Architect a mobile app integrating with a Supabase backend and various 3rd-party APIs.
- Implementation:** Build core features first, followed by advanced modules like memories and insights.
- Testing:** Conduct comprehensive unit and integration tests, including offline mode simulation.
- Deployment:** Use CI/CD for automated publishing to app stores.
- Maintenance:** Continuously update the app with bug fixes and new features



# FEASIBILITY AND VIABILITY



## Feasibility and Viability of Mobile Travel App System

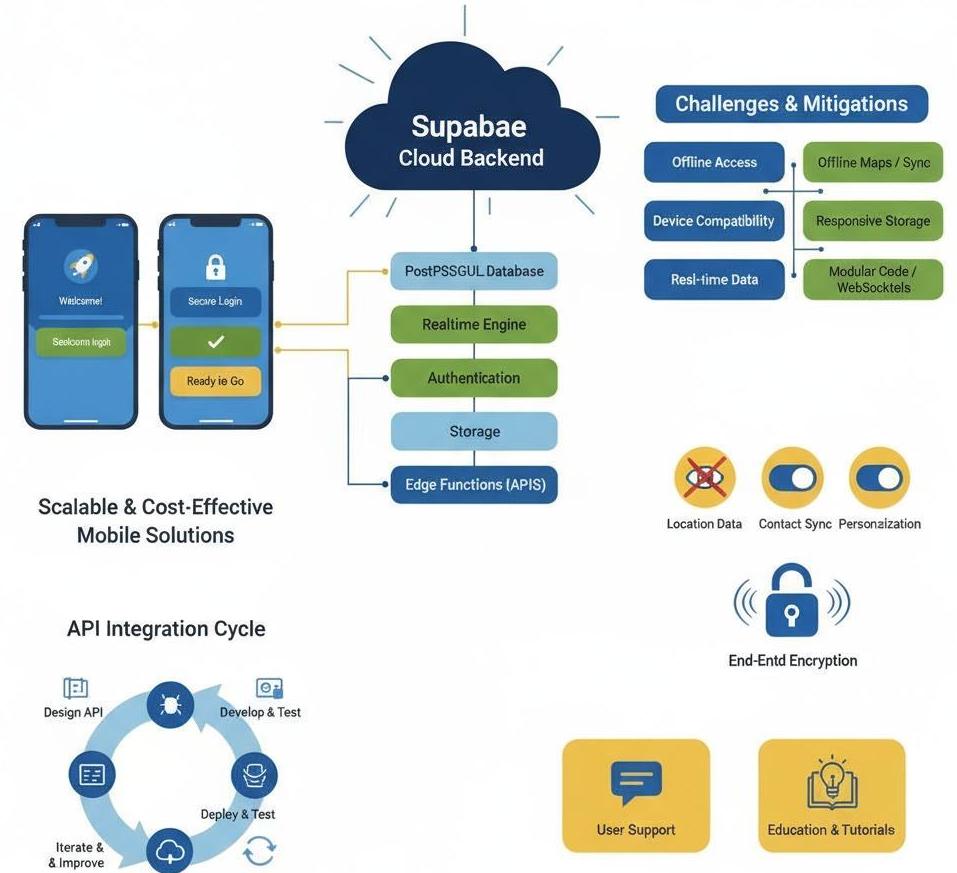
- ❖ Modular, cloud-based architecture (Supabase + APIs) ensures scalable and affordable backend.
- ❖ Intuitive, mobile-first UI with icons makes onboarding and usage simple for diverse users.

## Challenges

- ❖ Addressing user concerns about data privacy and location sharing.
- ❖ Integrating real-time data (routes, weather, currency) while ensuring performance.
- ❖ Managing continuous updates and third-party API changes.

## Mitigation

- ❖ Responsive design and regular compatibility testing for device diversity.
- ❖ Opt-in privacy controls and encrypted storage for user data protection.



# IMPACT AND BENEFITS



## Potential impact on the target audience

- ❖ Brings together trip planning, navigation, expenses, and memories in one unified platform.
- ❖ Combines multiple travel needs into one app, creating a unique edge over single-purpose competitors.
- ❖ Integration with APIs (weather, currency, bookings) and optional AI-driven personalization opens new revenue streams.

## Benefits of the solution (social, economic, environmental, etc.)

- ❖ Enhances travel safety by supporting real-time location sharing and SOS features, helping users stay connected with friends and family during trips.
- ❖ Raises awareness about environmental impact and encourages travelers to make informed, eco-conscious decisions during their trips.
- ❖ Enhances customer retention and brand recognition by offering personalized, reliable, and comprehensive travel solutions.



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# RESEARCH AND REFERENCES



- ◆ Features to Incorporate While Building a Travel App ([NimbleAppGenie](#))
- ◆ INDIANA: Personalized Travel Recommendations Using Wearables and AI (2024) ([arXiv](#))
- ◆ Studies of map usage (how much exploring people do, what control they want over search vs map manipulation). MapRecorder is especially good ([Taylor & Francis](#))
- ◆ M-Traveling: Mobile Applications in Tourism([Traveling\\_MobileApplicationsinTourism](#))
- ◆ An Evaluation of Smartphone Tracking for Travel Behavior Studies([Travel Behavior](#))
- ◆ Smart Travel Companion: AI-Driven Trip Planning Mobile Application([Trip Planning](#))

[PROTOTYPE LINK](#)  
[DEMO VIDEO](#)