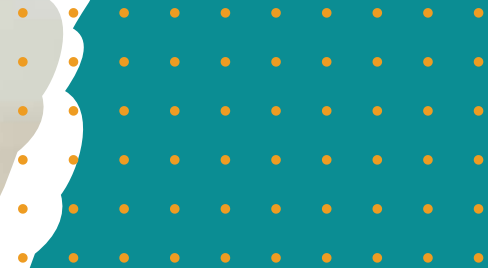




# WANDER 05

PLAN SMARTER, TRAVEL BETTER



Start Slide ➔

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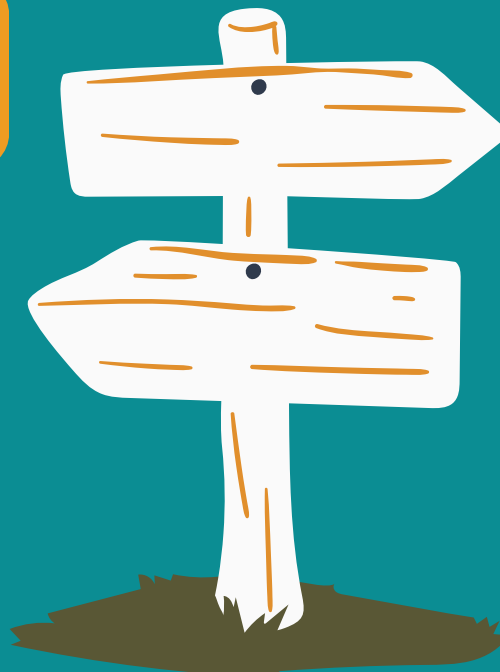
**Technology Stack**



**Gantt Chart**



**Conclusion**



# MEET OUR TEAM

Dr Praseetha V.M

Ajai Sankar  
Hareesh

Anu Mathew

Ashly Rose  
Antony

Vivekanand R





# PROBLEM STATEMENT

**Many travelers struggle to efficiently plan and manage their trips within a budget while ensuring a hassle-free experience**

**Common challenges faced:**

- Creating comprehensive itineraries
- Managing expenses and budget
- Finding suitable accommodations
- Booking transportation
- Finding places to eat
- Safety and disaster alerts
- Staying updated on weather conditions

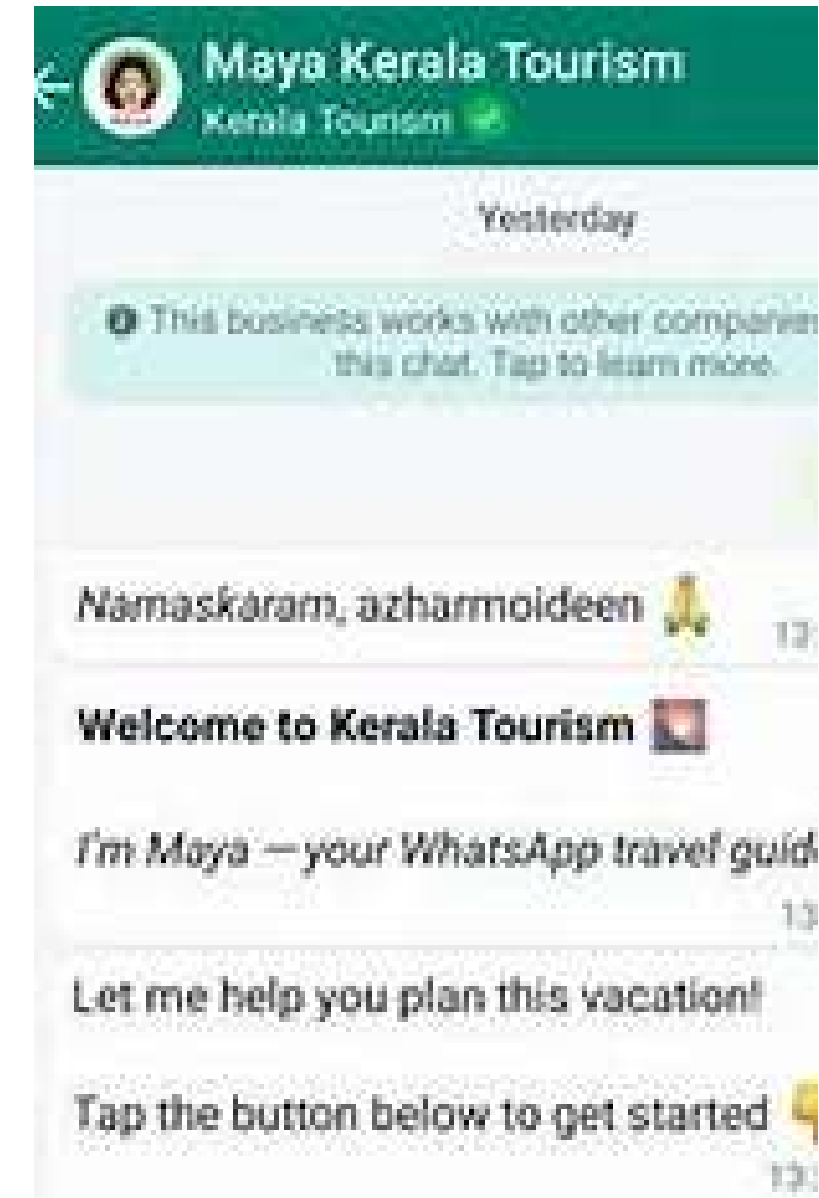


# LITERATURE SURVEY

## 1. 'MAYA'-THE CHATBOT [1]

- Kerala Tourism introduces "Maya," a 24x7 WhatsApp chatbot.
- Users connect by sending 'Hi' to 7510512345 or scanning QR code.
- Maya aids in hassle-free travel, offering info on attractions, culture, cuisine, and transport.
- Leverages tech to attract tourists, providing a wealth of information.
- Links to official Kerala Tourism pages enhance engagement and information dissemination.

In conclusion, "Maya" enhances Kerala's tourism experience through accessibility, technology, and comprehensive information, aligning with the state's commitment to visitor satisfaction.

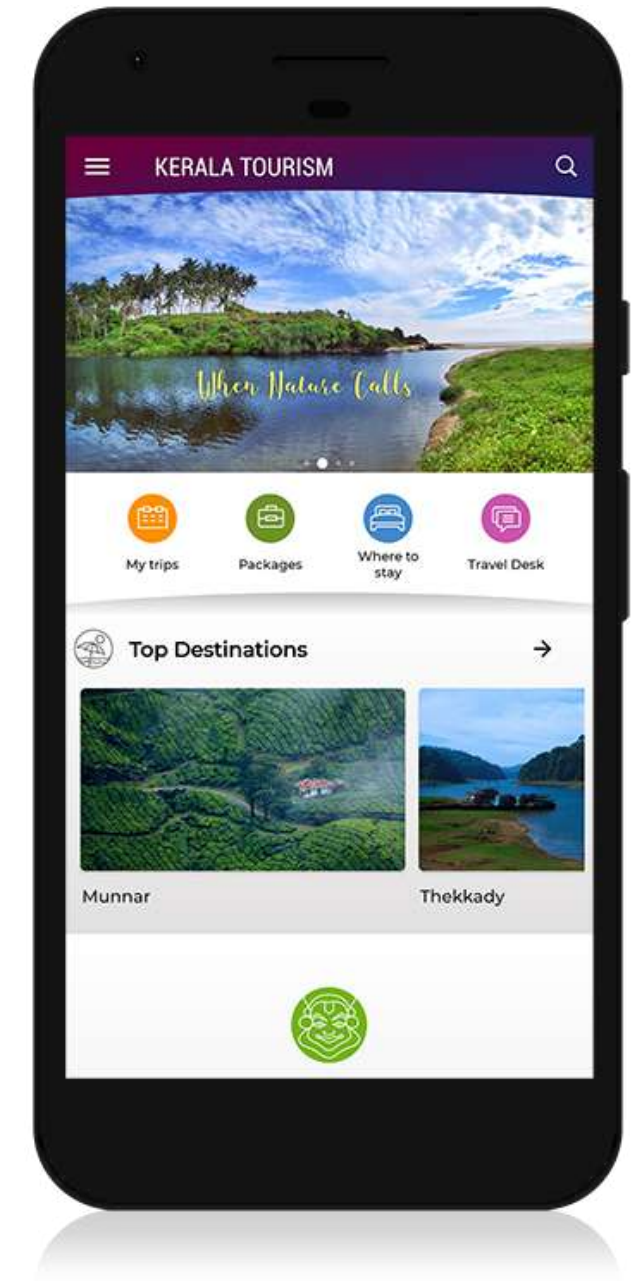


# LITERATURE SURVEY

## 2.KERALA TOURISM APP [5]

- Kerala Tourism's mobile app serves as a comprehensive tool for travelers, offering a seamless experience in exploring the diverse attractions of the state.
- The app is designed with a user-friendly interface, ensuring easy navigation for users to access information about destinations, activities, and travel essentials.
- Providing detailed information about the cultural and historical significance of attractions, the app serves as an educational tool, enriching the travel experience.

In conclusion, the Kerala Tourism app is a versatile, user-centric tool, meeting diverse traveler needs while encouraging responsible exploration of the state's cultural and natural heritage





# LITERATURE SURVEY

## 3.WANDERBOT-TRIP PLANNER

- The WanderBot AI trip planner encompasses several key features that align with existing research and trends in travel planning
- It is a conversational bot
- From planning to booking, WanderBot simplifies the process, enabling swift arrangements for flights, hotels, and activities.
- Its user-friendly interface facilitates easy sharing of trip details via email, WhatsApp, and Twitter, fostering collaborative planning and social engagement.

### Limitations

AI does have some limitations. Learn more about how these will affect you.

#### Remote Locations

May include misleading information

#### Trip Limits

Limit is set to a maximum of 10 days

#### Outages

Sometimes responses might be slow or error out

### AI Trip Planning is here to help

Have a conversation with AI and easily plan, book and share your trip

START CHAT

1000 Itineraries have been generated!

#### Conversational

Easily ask the AI to update a dinner for a specific day, make the entire trip be more relaxing and much more.

# ***RESEARCH PAPERS***

## **Multi-Objective Trip Planning with Solution Ranking Based on User Preference and Restaurant Selection**

**AUTHORS:** . Supoj Choachaicharoenkul, David Coit, Naruemon Wattanapongsakorn

This paper presents a novel approach to automating trip planning that takes into account not only tourist preferences and point of interest (POI) attributes but also lunch periods at local restaurants. The proposed approach incorporates a multi-objective optimization model that generates a set of Pareto-optimal solutions, which are then ranked based on user preferences and restaurant selection. The authors evaluate the proposed approach using real-world data from Bangkok, Thailand, and demonstrate its effectiveness in generating personalized and diverse trip plans that satisfy user preferences and constraints. The paper also discusses potential applications of this approach for tourists, tour companies, and government agencies.



## Optimal Travel Planning of Short Stays in Mass Tourist Destinations

**AUTHORS:** María A. Del Cacho Estil-Les, Chiara Bersani, Roberto Sacile, Enrico Zero

This paper presents a mixed integer optimization model for a Time Expanded Network-based Traveling Tourist Destination Problem (TTDP), tailored for brief visits to high-traffic tourist spots. The study focuses on a treasured and delicate tourist destination within the Liguria Region of Italy. The principal aim of this study is to present a methodology that can aid local administrators in curbing the adverse effects of mass tourism in their regions. The proposed model facilitates efficient control of tourist influx at designated spots, all the while minimizing the strain on the local cultural heritage and environment, as aligned with the scheduled itinerary of guided tours. The paper also discusses the critical aspects considered in promoting Sustainable Tourism Development and outlines strategies to address and manage the negative impacts of tourism on cultural heritage and the environment. Finally, the methodology adopted to solve the Network Flow Problem formulation in this study is also discussed.

# Project OBJECTIVE

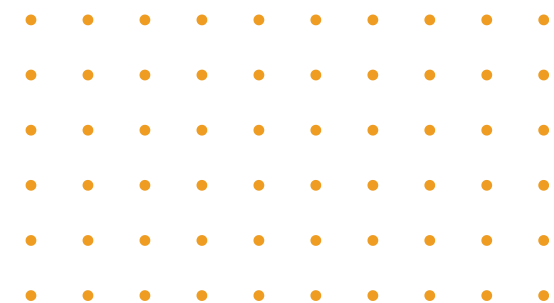
Develop a comprehensive and user-friendly trip planner application that streamlines the travel planning process, enhances user experience, and provides a personalized itinerary for individuals or groups. The application aims to simplify the complexities of trip planning, offering a one-stop solution for users to efficiently organize, manage, and enjoy their travel experiences.



Planning for  
a trip?  
Confused



Where Dreams Meet Budget:  
Your Ultimate Trip Planner





# KEY FEATURES



**Smart  
Itinerary  
Generation**



**Accommodation and  
Restaurant  
Recommendations**



**Mapping and  
Navigation**



**Budget  
Optimization**



**Safety and  
Disaster Alerts**



**Weather  
Updates**



# FUNCTIONAL REQUIREMENTS



**User Registration and  
Profile Management:**



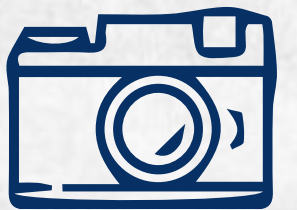
**Transport  
reservation**



**Itinerary  
Generation**



**User review  
system**



**Photo/Video  
Sharing**



**Hotel Reservation**



**Safety and  
Disaster  
Alerts**



**Budget  
Management**



**Itinerary  
Sharing**



# NON-FUNCTIONAL REQUIREMENTS



**Integration with Third-Party Services**



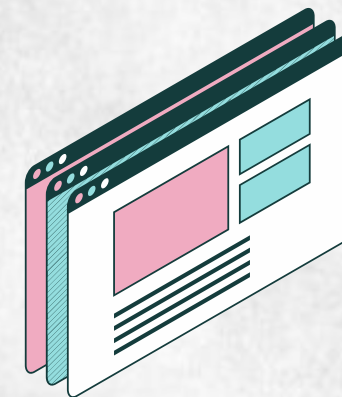
**Data Privacy**



**Security**



**Data Backup and Recovery**

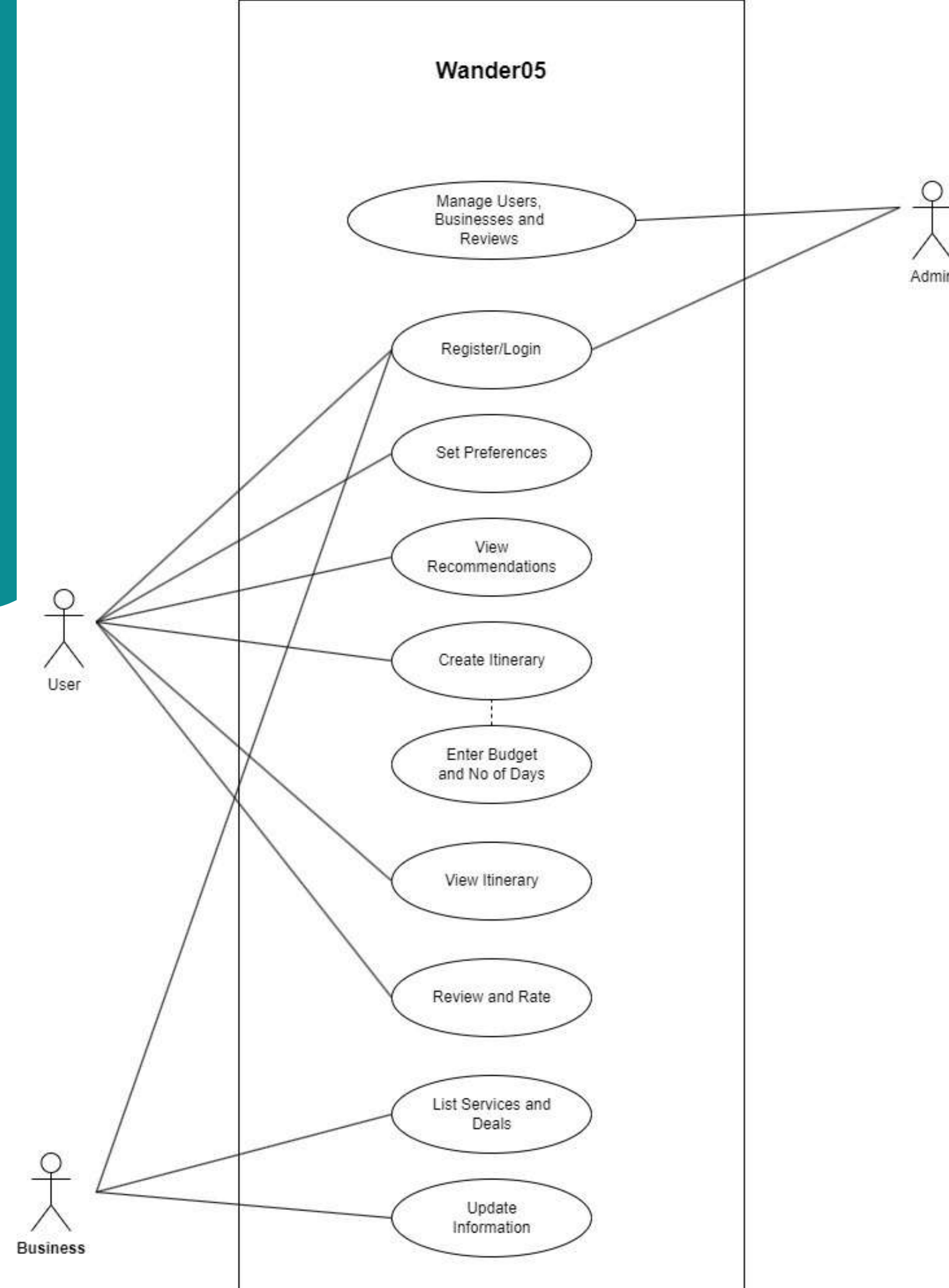


**Usability and User Experience**



**Performance**

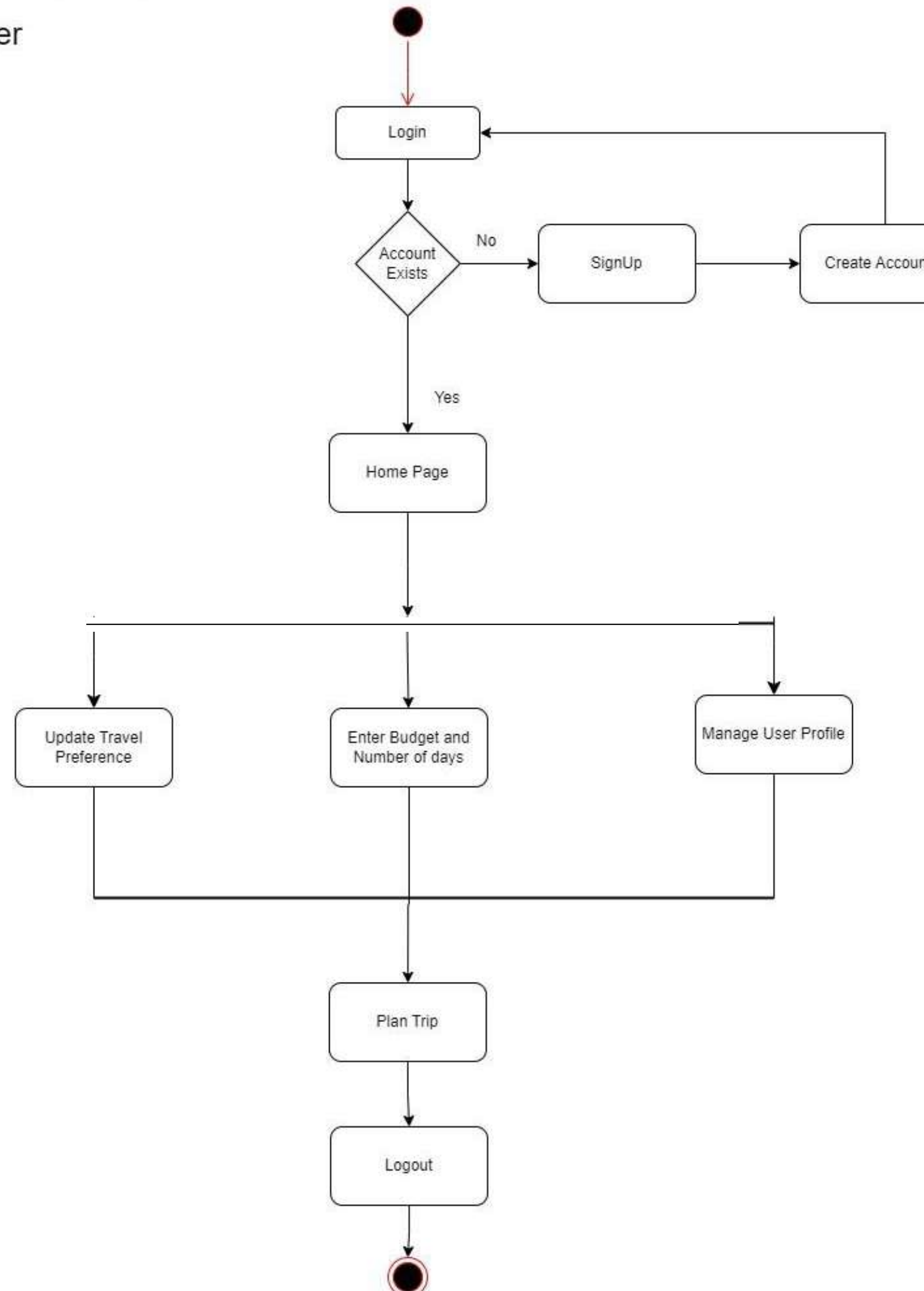
# Use case diagram





## Activity Diagram

User



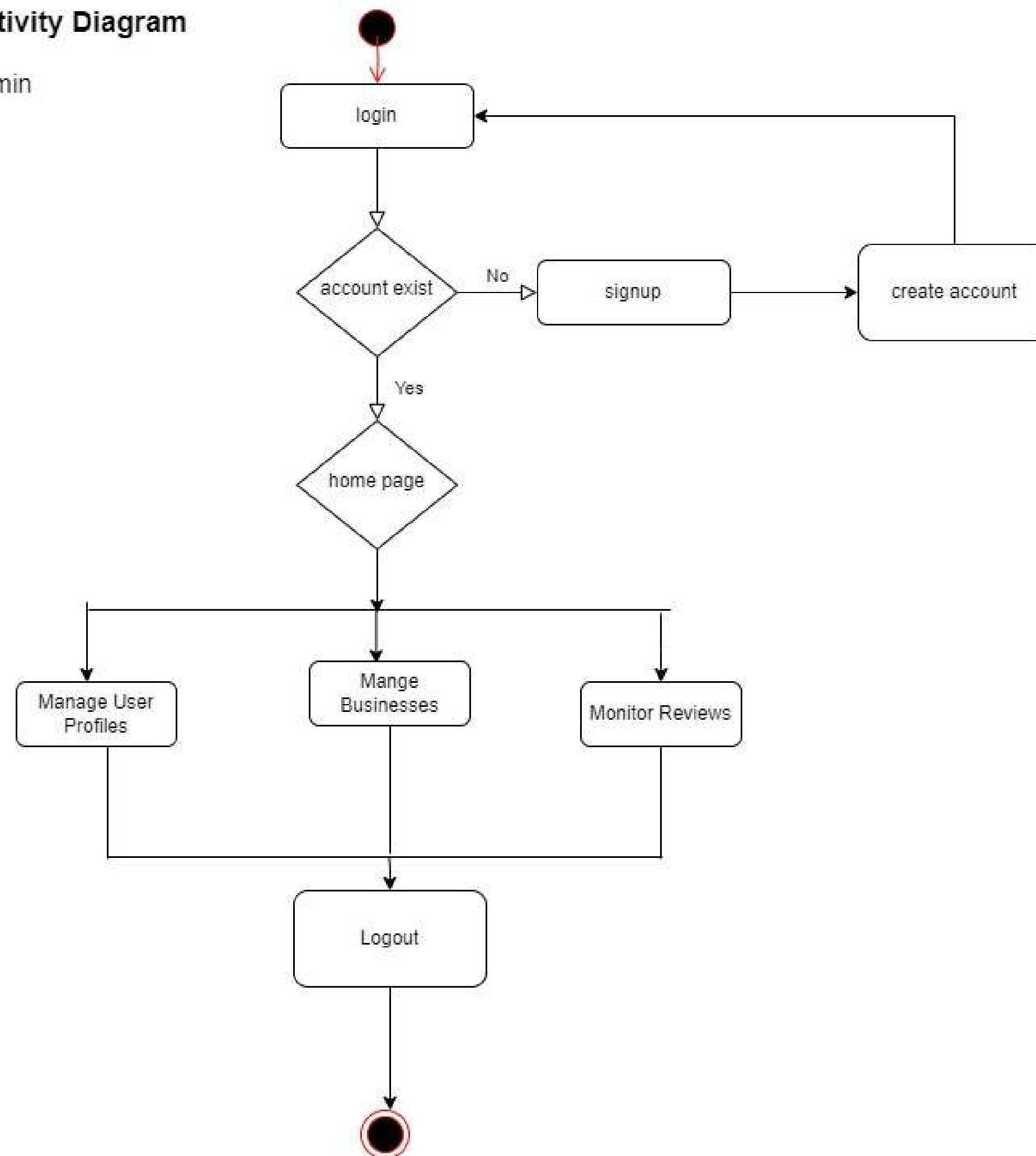
# Activity Diagram User

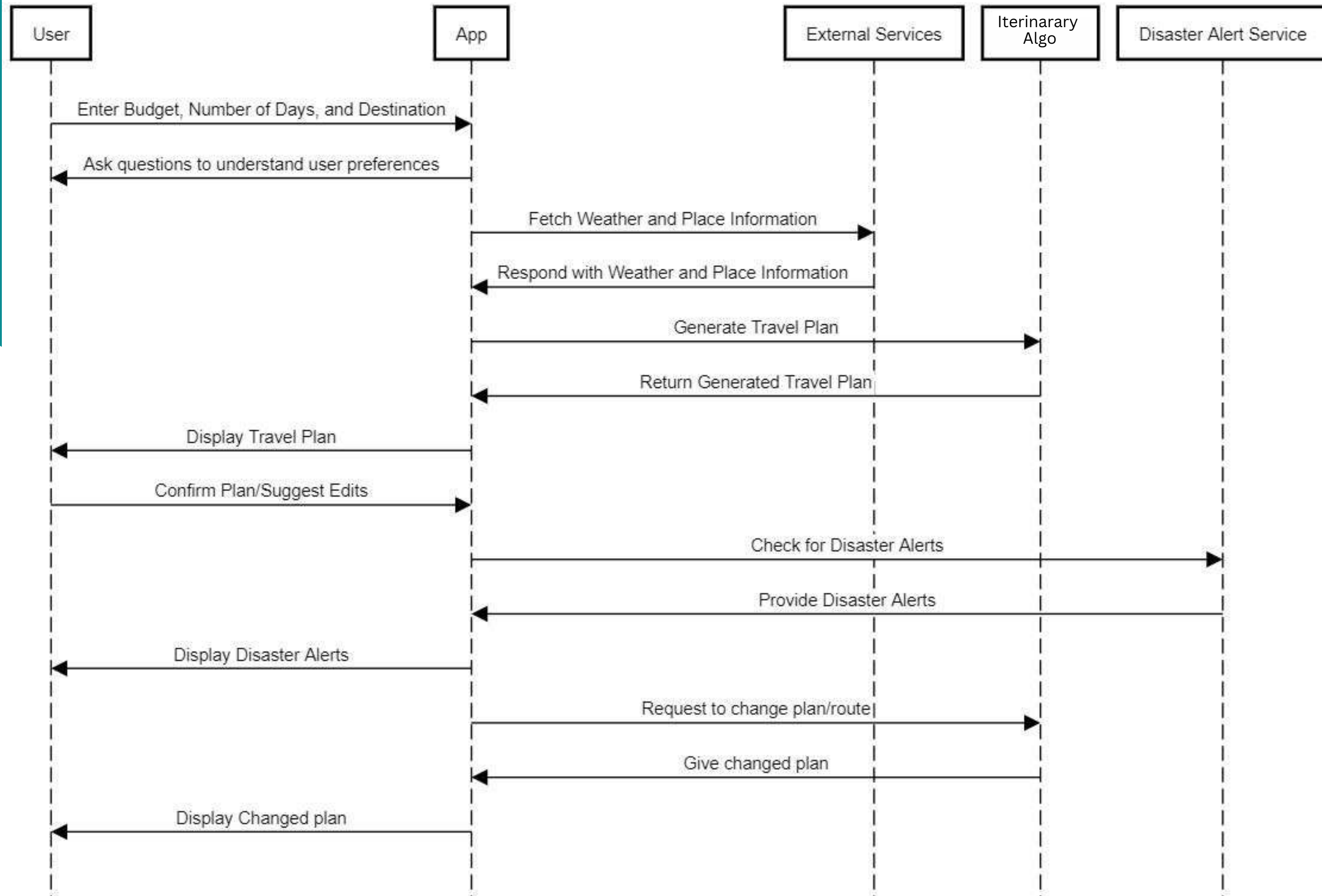


# Activity Diagram Admin

## Activity Diagram

Admin



Sequence  
Diagram

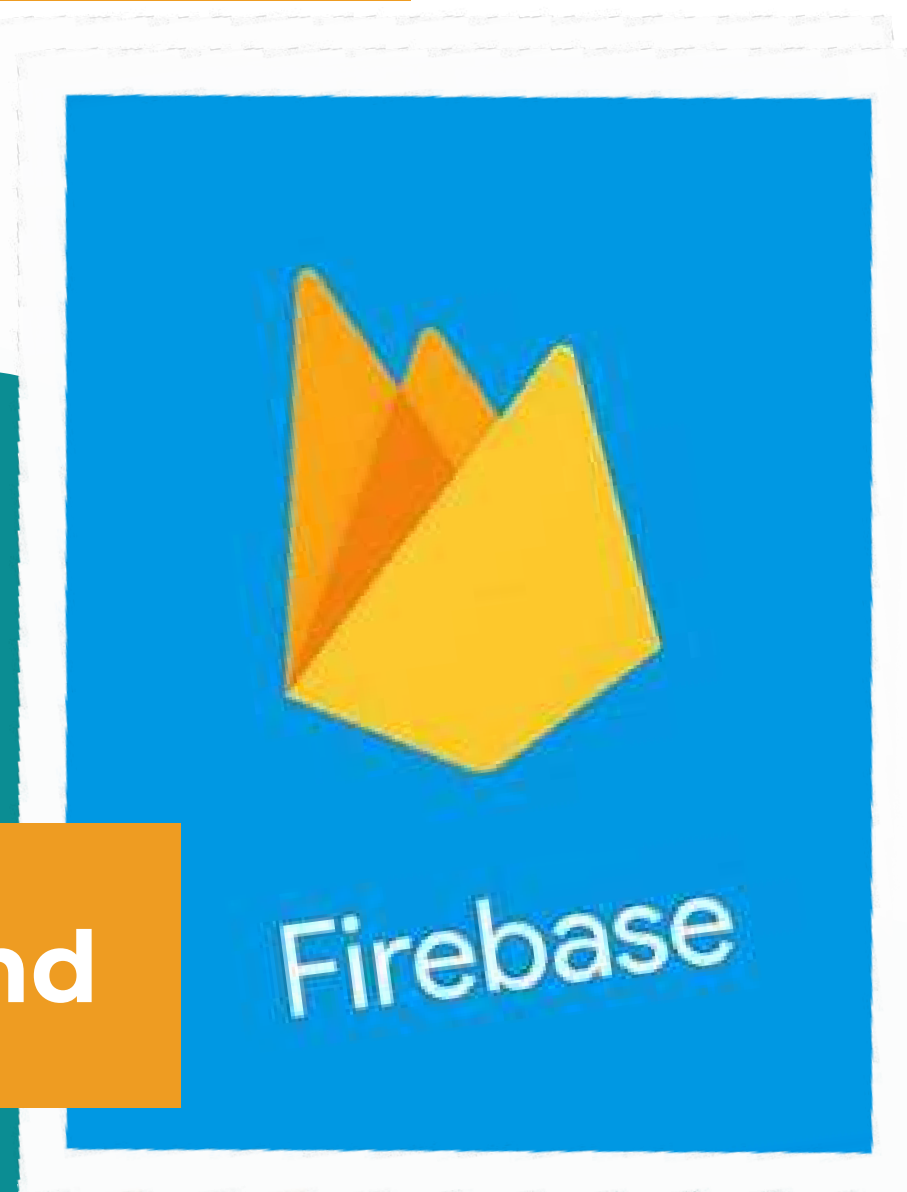


# TECHNOLOGY STACK

**Frontend**



**Backend**



**Mapping and  
geolocation API**

**Payment gateway**

**Firebase Cloud  
Messaging**

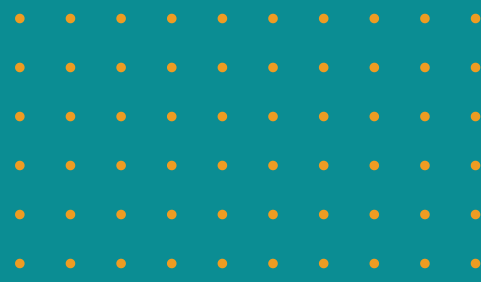
**Weather API**



[github.com](https://github.com)



# GANTT CHART





# ✗ LET US CONCLUDE

Wander05 revolutionizes travel planning by addressing common challenges through a holistic solution. This app offers personalized itineraries, efficient budget management, and robust safety features. Emphasizing both functional and non-functional requirements,

"Wander05" ensures quality and reliability in its services.

In a rapidly growing travel market, the app holds substantial market potential. Strict adherence to data privacy regulations underscores its commitment to user data security. User feedback is pivotal, and staying abreast of industry trends is crucial for ongoing success.

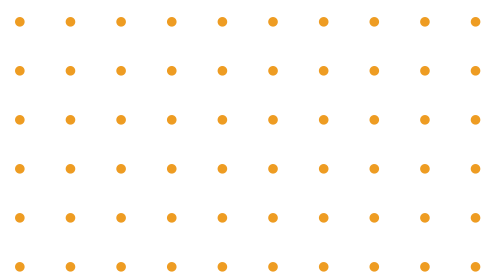




# Reference



- [1] Maya Bot-Kerala Tourism <https://www.keralatourism.org/newsletter/news/2022/whatsapp-chatbot-tourists/2061>
- [2] Kerala Disaster Management Authority <https://sdma.kerala.gov.in/>
- [3] M. Gughan Raja, B. John Samuel, and Dr. N. Kirubanandasarathy, "Disaster Alert Notification and Rescue Management Through Smartphones Using GPS," in \*International Journal of Applied Engineering Research\*, vol. 10, no. 55, ISSN 0973-4562, 2015.
- [4] Kerala Tourism <https://www.keralatourism.org/>
- [5] Wanderbot Ai : <https://wanderbot.io/>
- [6] S. Choachaicharoenkul et al., "Multi-Objective Trip Planning with Solution Ranking Based on User Preference and Restaurant Selection," IEEE Access, vol. 10, pp. 10705-10716, 2022.
- [7] M. A. D. C. Estil-Les, C. Bersani, R. Sacile, and E. Zero, "Optimal Travel Planning of Short Stays in Mass Tourist Destinations," in IEEE Access, vol. 11, pp. 65409-65420, 2023, doi: 10.1109/ACCESS.2023.3306387.





THANK *You*

