



Travel Discovery - Redefining Travel Planning And Exploration with Advanced Technology

24-25J-289



Members

Supervisor

Ms. Thilini Jayalath

Co - Supervisor

Dr. Sanika Wijayasekara



Bandara U.M.W



Pathirana A.P.C.E



Madhuwantha W.A.S.P



Heshan J.A.C.I



Agenda

- Project Description
- Research Question
- Main Objectives
- Specific Objectives
- System Overview Diagram
- Technologies
- Individual Components Section
- Requirements
- Gannt Chart
- Commercialisation Aspects
- Budget
- Q & A
- Thank You



Introduction

Our research aims to create a personalized travel planning solution that enhances user experience through comprehensive trip planning, 3D attraction discovery, Travel experience sharing with community suggestion, real-time suggestions, including emergency assistance.

- 1) Comprehensive Personalized Travel Planning**
- 2) Travel Experience Sharing and Social Connectivity**
- 3) 3D Models and Interactive Maps**
- 4) Travel Managing and Emergency Services**



RESEARCH QUESTION

- Travel planning is fragmented and lacks personalization?
- Organizing trips and adapting to changes is difficult for users?
- Discovering local attractions and managing unexpected alterations is challenging?
- Limited opportunities for community interaction and sharing travel experiences?
- Travelers struggle to find immediate assistance in emergency situations?





OBJECTIVES

Main Objective

Provide mobile application based solution for personalized travel planning, 3D attraction discovery, experience sharing, and real-time suggestions. Users earn points, get group and place recommendations, and receive emergency assistance.



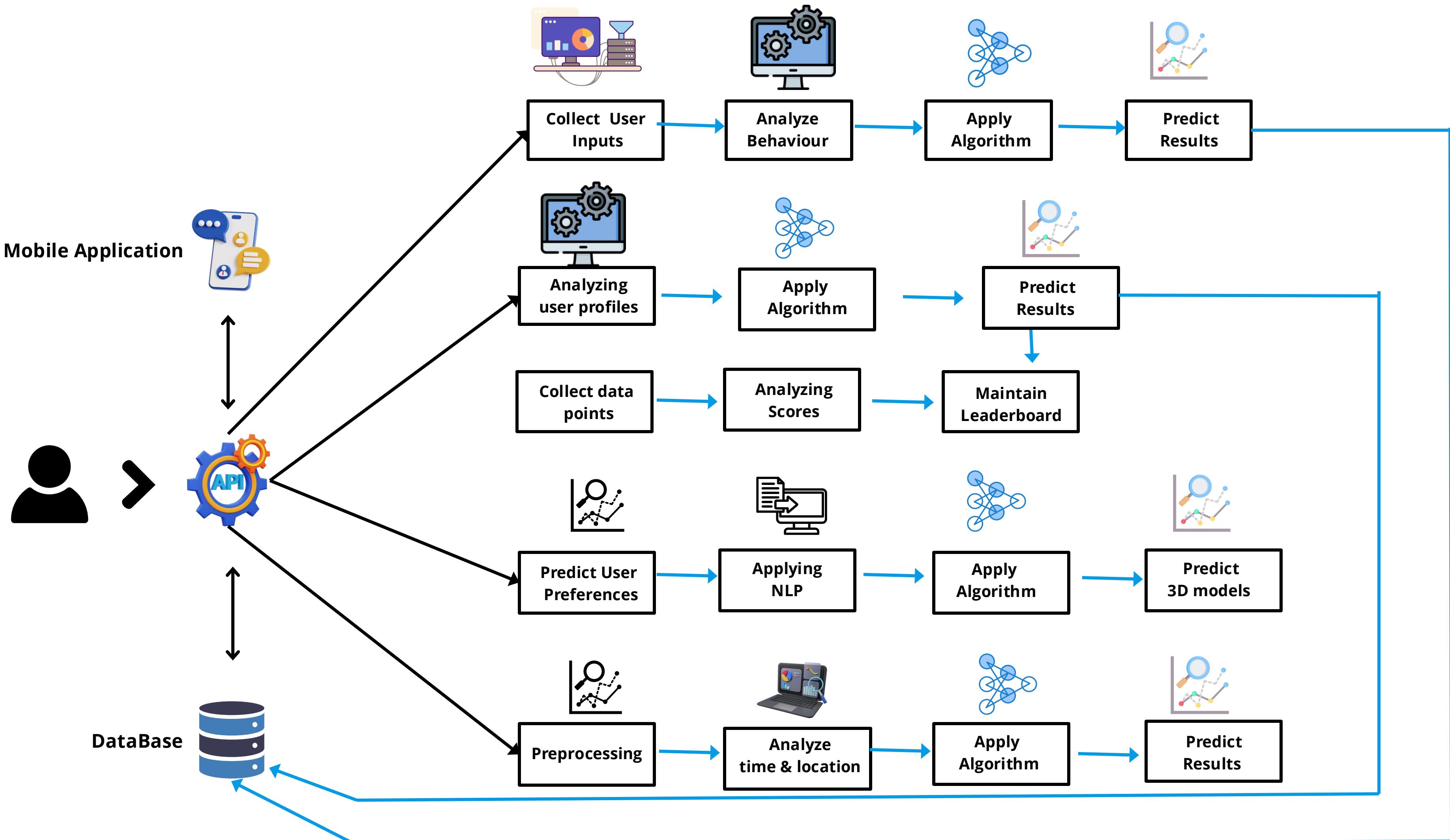
Specific Objectives

- ❖ Plan a tour based on user input and predict tours by analyzing user behavior with suggesting travel destinations

- ❖ Share travel plans and experiences, predict travel groups and plan places by analyzing user profiles and complete challenges to earn points

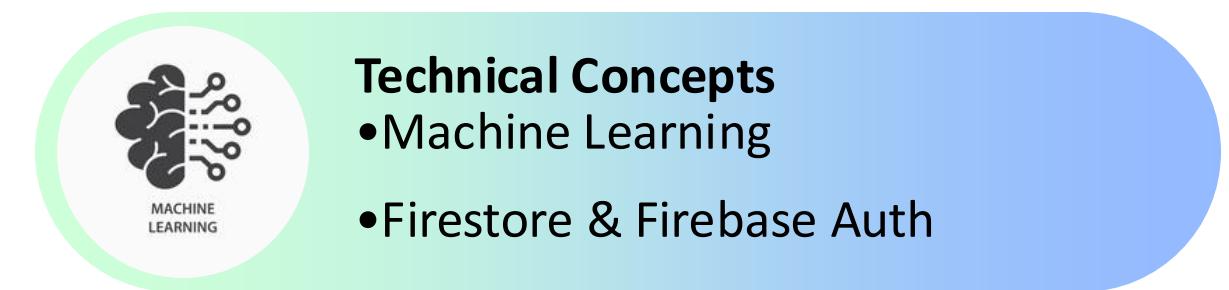
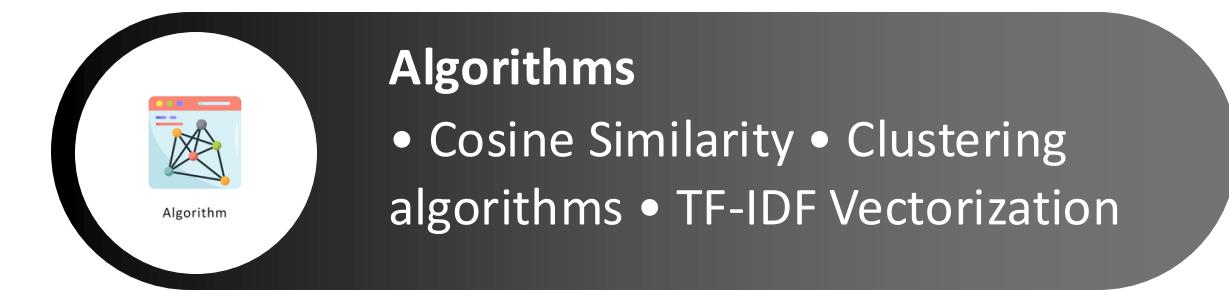
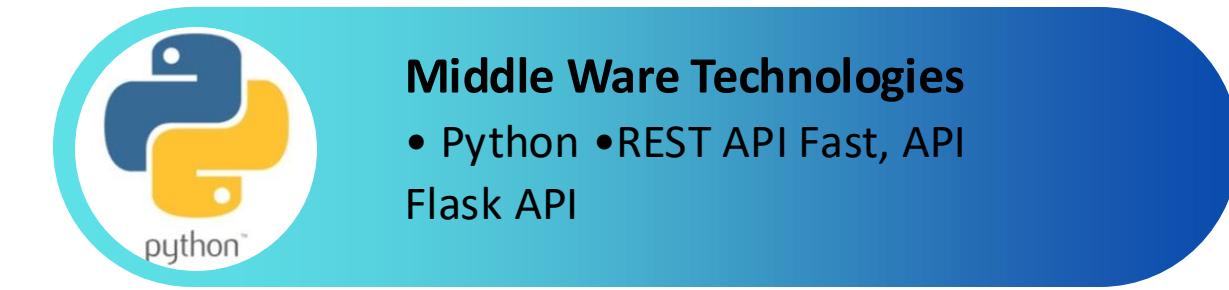
- ❖ View 3D models of attractions directly on the map and get personalized recommendations

- ❖ Provide timely and relevant suggestions for alternative places to visit when their original plans change



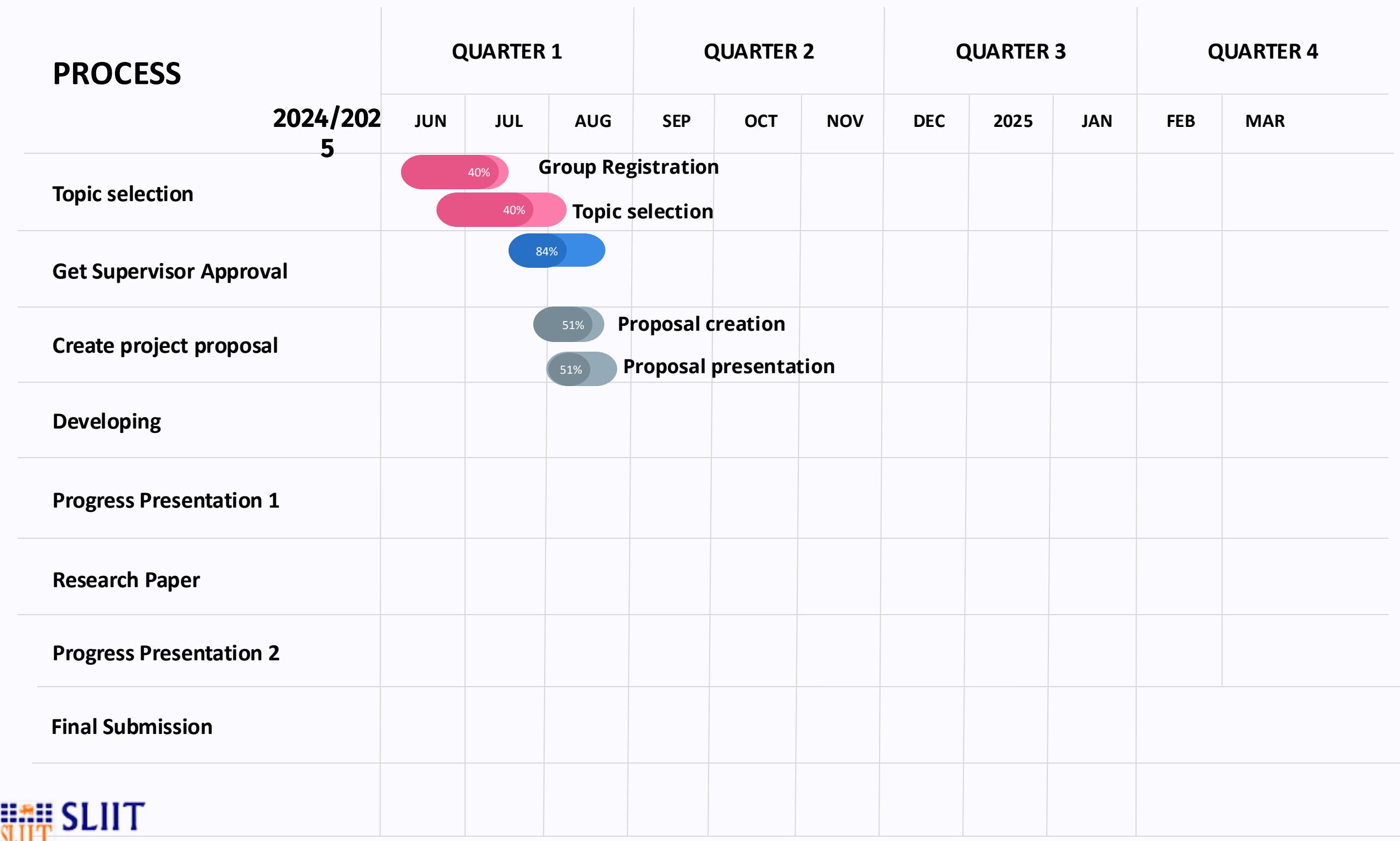


Technologies





Gantt Chart





Commercialisation Aspects

Market Opportunity

- Growing travel app market (\$1.9B by 2026)
- High demand for AI-driven personalized travel experiences
- Targets millennials, solo travelers, corporate users

Revenue Model

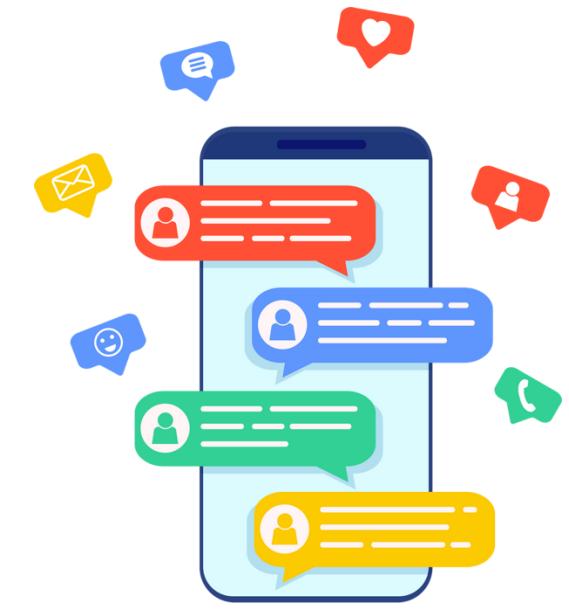
- Freemium Model (Basic free, premium features)
- Affiliate Commissions (Hotels, airlines, tour operators)
- In-App Purchases (Guides, AI features, offline access)
- Advertisements & Partnerships (Travel brands, insurance)
- Data Insights (Anonymous user analytics for businesses)



IT21073182 | Bandara U.M.W
BSc (Hons) in Information Technology



Introduction



Identify the user inputs & behavior to plan a tour based on user input and predict tours by analyzing user behavior with suggesting travel destinations with accommodations



Research Problem & Solution



- How can user input be effectively used to plan personalized tours?
- How can user behavior be analyzed to improve tour planning and prediction algorithms?
- Enhance the accuracy of personalized travel planning and predictions?





Research Gap

Limited Personalization

Lack of Predictive
Capabilities

Insufficient User Behavior
Analysis

Fragmented User Experience

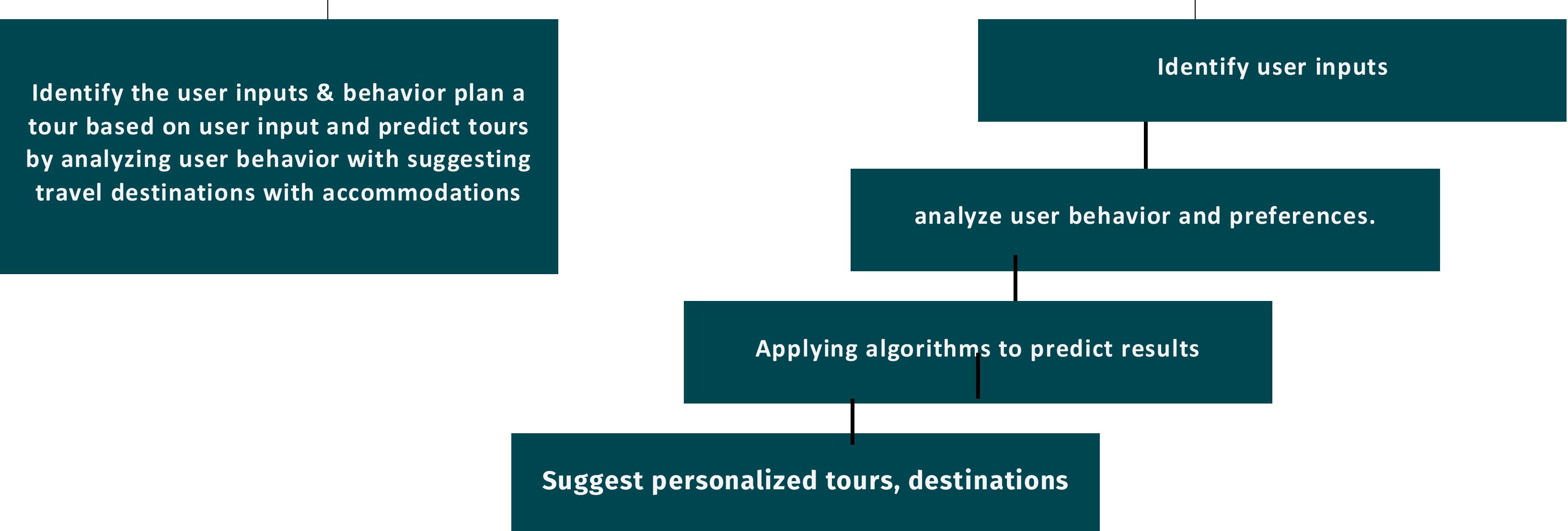




Objectives

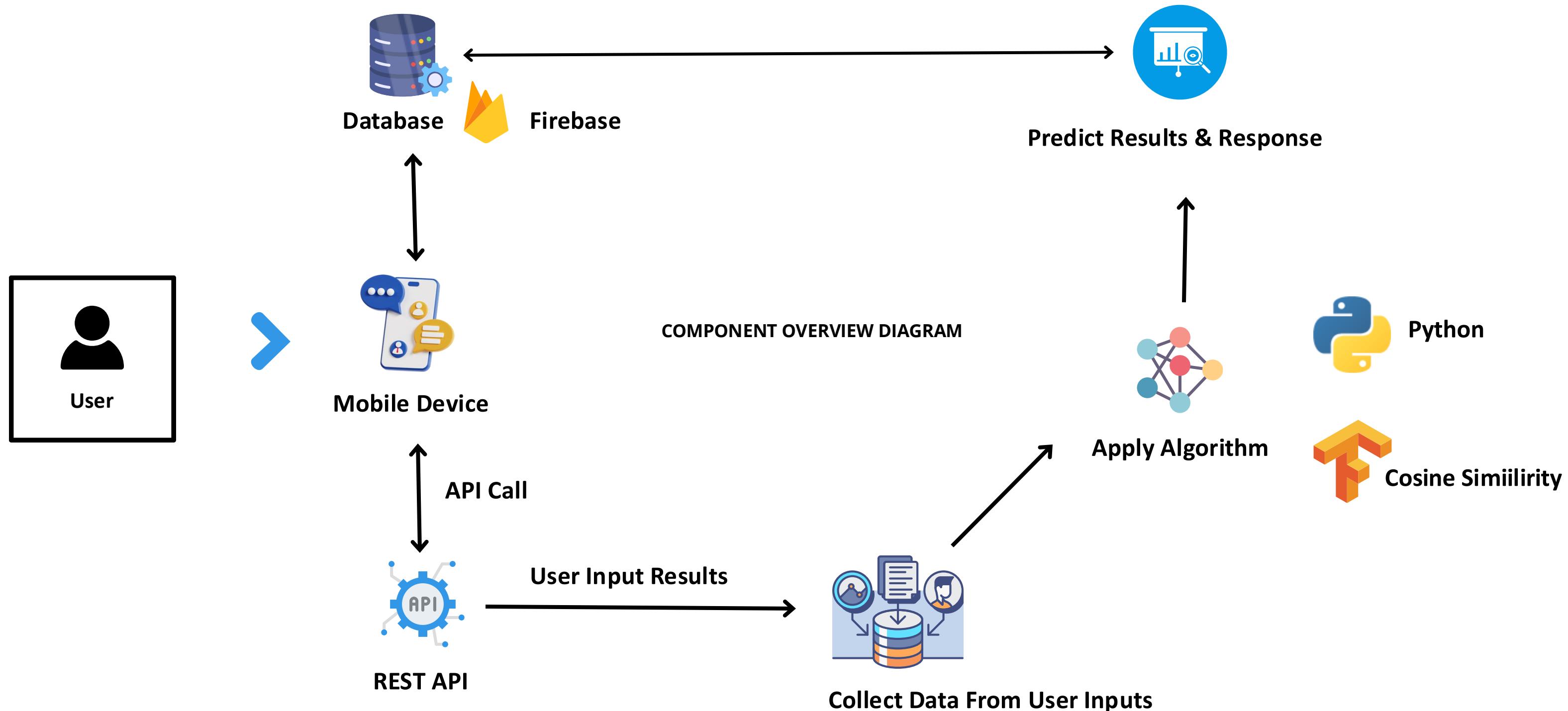
Specific
Objectives

Sub
Objectives





Methodology





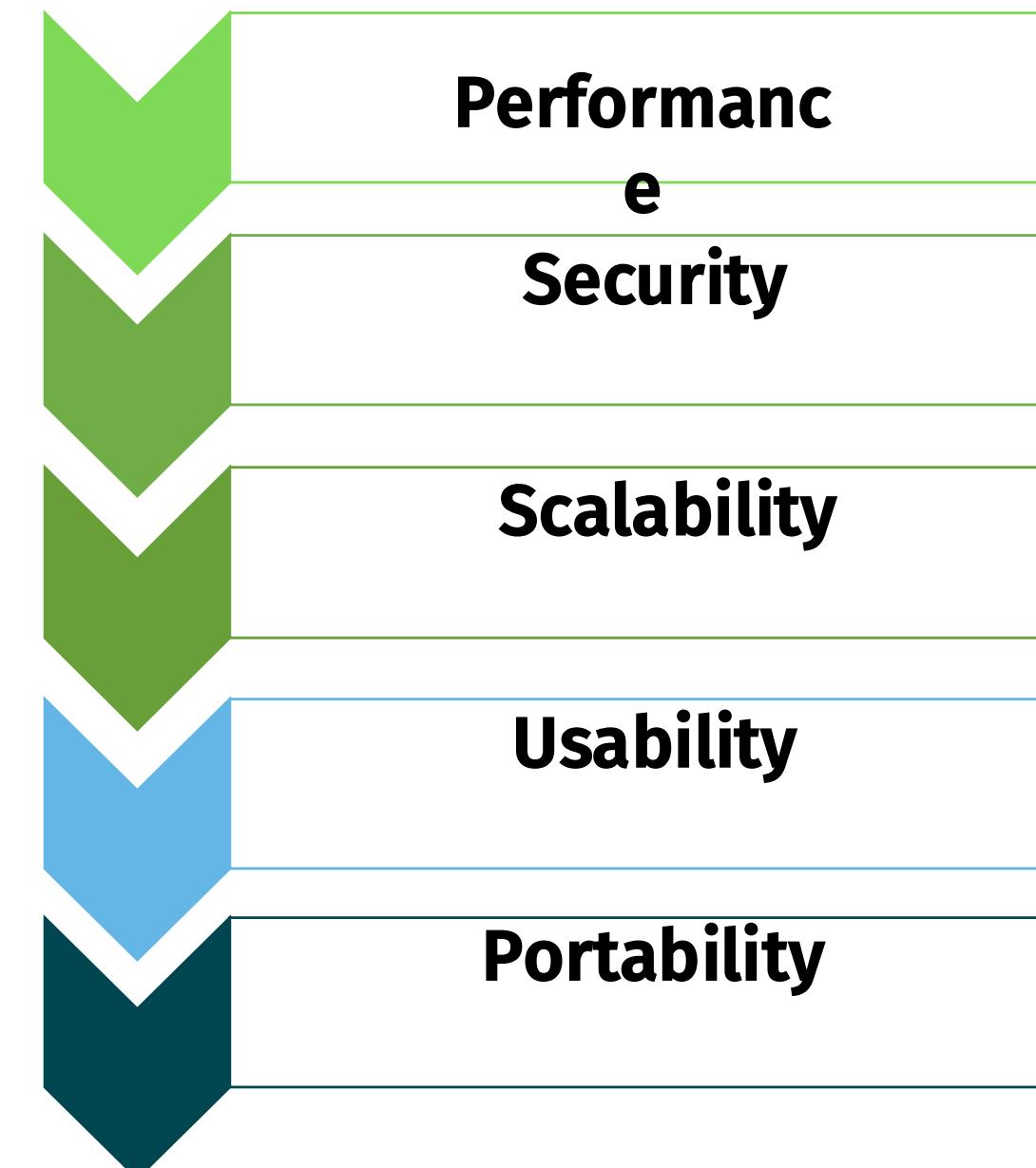
Key Pillars





Componenet Specific Requirements

Non-functional Requirements





Completed Work (Progress Update)

- **User Interfaces (50% Completed)**
- **User inputs like budget, duration, and preferred activities.**
- **Machine Learning Model: Developed and tested a recommendation model**
- **Integrated 50% of the model with the app backend.**



Future Work

- Complete the remaining 50% of the UI
- Finalize integration and optimize the recommendation model for better accuracy.
- Implement continuous learning by collecting user feedback
 - Completed user behaviour analysis machine learning model



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IT21077524 | Pathirana A.P.C.E
BSc (Hons) in Information Technology



COMPONENT 02

Share travel plans and experiences, predict travel groups and plan places by analyzing user profiles and introduce challenges to earn points



Introduction

- Connect with fellow travelers
- Share travel experiences and itinenaries
- Suggest same interest travel groups with places
- Complete goals and earn rewards



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Research Gap

Limited Integration of Social Connectivity and Travel Planning

Lack of Personalized Travel Recommendations and reviews

Underutilization of Machine Learning for Predicting Travel Groups

Limited use of gamification





Research Problem

- **Gap in Comprehensive Itinerary Sharing**
- **Lack of Predictive Analytics for Personalized Recommendations**
- **Need for Community-Driven Travel Planning**
- **Generalized and Anonymous Reviews**





Objectives

Specific
Objectives

Sub
Objectives

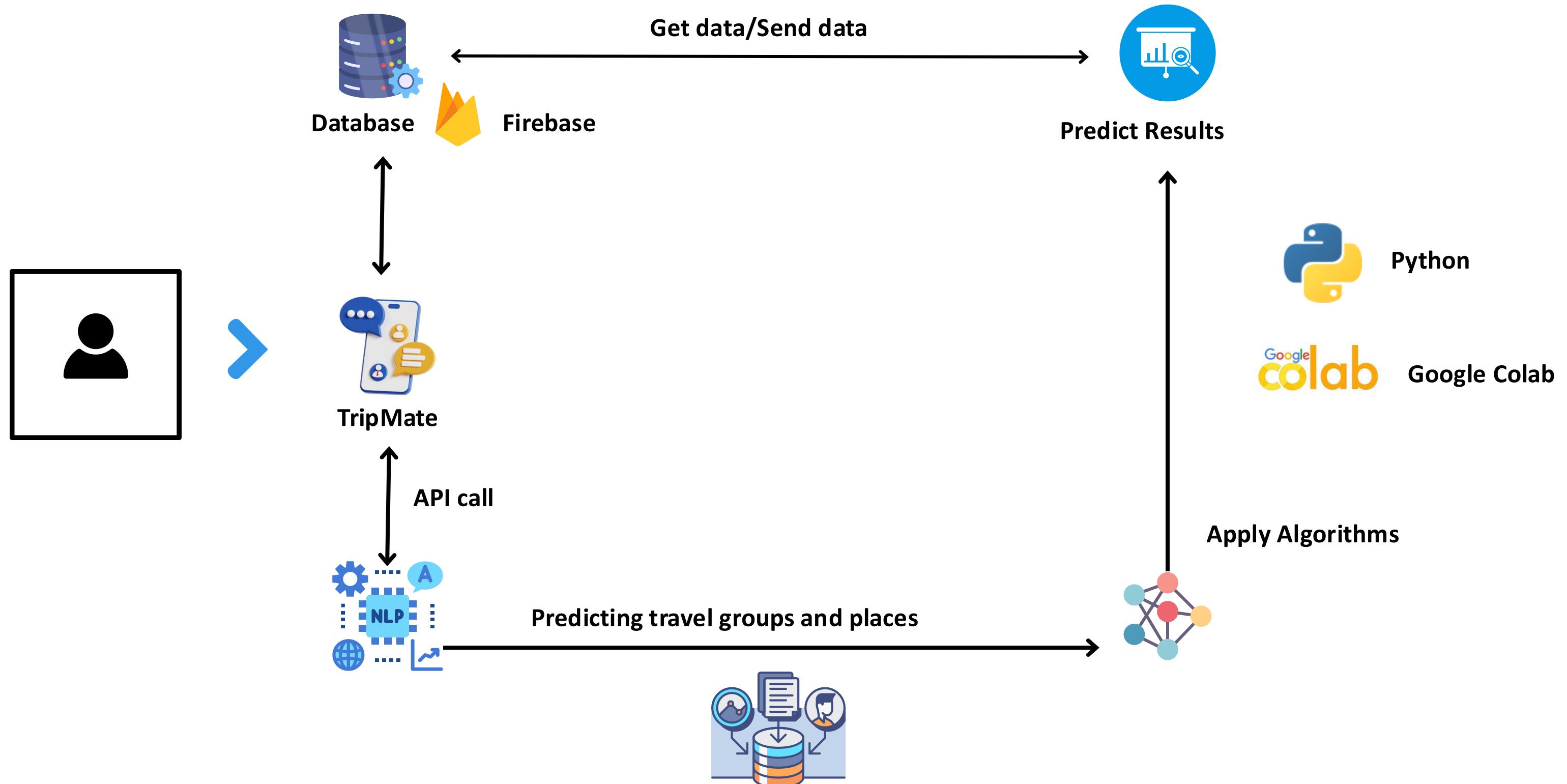
Develop a platform to Connect travellers to share their itineraries and predict travel groups for them

Implement features to filter reviews

Implement travel-related challenges and tasks

Smooth integration with major social media networks

Use machine learning for personalized travel group and destination recommendations.





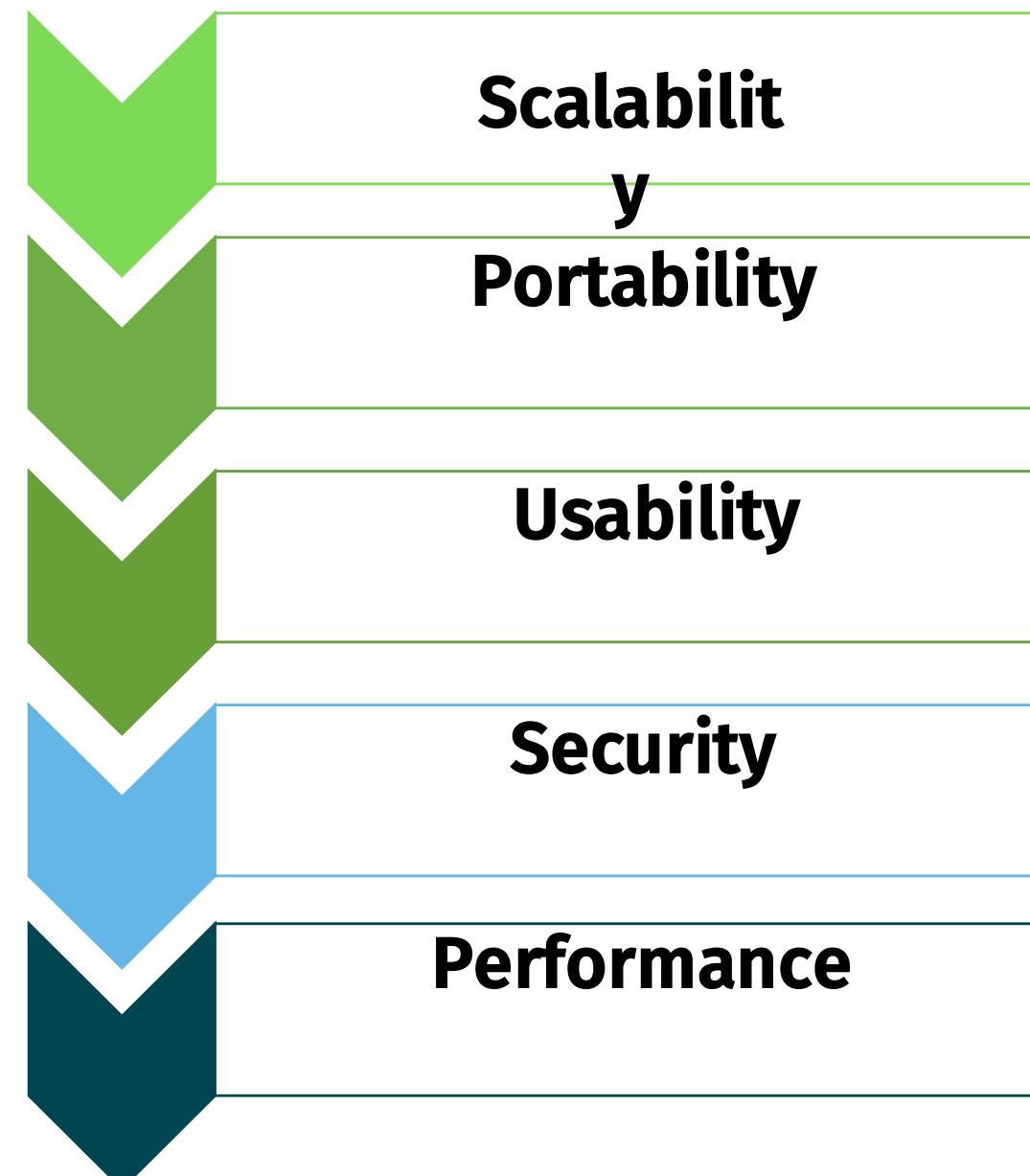
Key Pillars





Componet Specific Requirements

Non-functional Requirements





Data Set

1. Datasets Used:

- User Data: Name, User ID, Interests (e.g., hiking, temples, beaches).
- Place Data: Place Name, Location, Category (e.g., historical, adventure, religious).
 - Sri Lanka Tourism Development Authority
 - Kaggle

1. Purpose:

- Suggest travelers with similar interests to form a travel group.
- Recommend top destinations that align with the traveler's interests

1. Key Outputs:

- Travel Group Recommendations: Travelers with similar interests.
- Matching Destinations: Suggested places to visit based on interests.



Completed Work (Progress Update)

- User Interfaces (90% Completed)
 - User Profile details are the inputs
- Machine Learning Model: Developed and tested a recommendation model for travel group and destinations.



Future Work

- Complete the remaining 10% of the UI
- Finalize integration and create a option to connect with eachother
 - Implement challenges and goals



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- [1] McKinsey & Company, "How Personalization in Travel Boosts Customer Loyalty," 2018. [Online]. Available: <https://www.mckinsey.com/industries/travel-transport-and-logistics/our-insights/how-personalization-in-travel-boosts-customer-loyalty>. [Accessed: Aug. 6, 2024].
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IT2105782 | Madhuwantha W.A.S.P
BSc (Hons) in Information Technology



COMPONENT 03

View 3D models of local attractions directly on the map and get personalized recommendations



Introduction

- **3D models on maps offer a personalised, immersive exploration of local attractions.**
- **Personalised recommendations enhanced by collaborative filtering and sentiment analysis.**



Research Gap

Limited Integration of 3D Models with Interactive Maps

Inadequate Use of Advanced Algorithms for Personalization

Limited Real-time Interaction and Adaptation



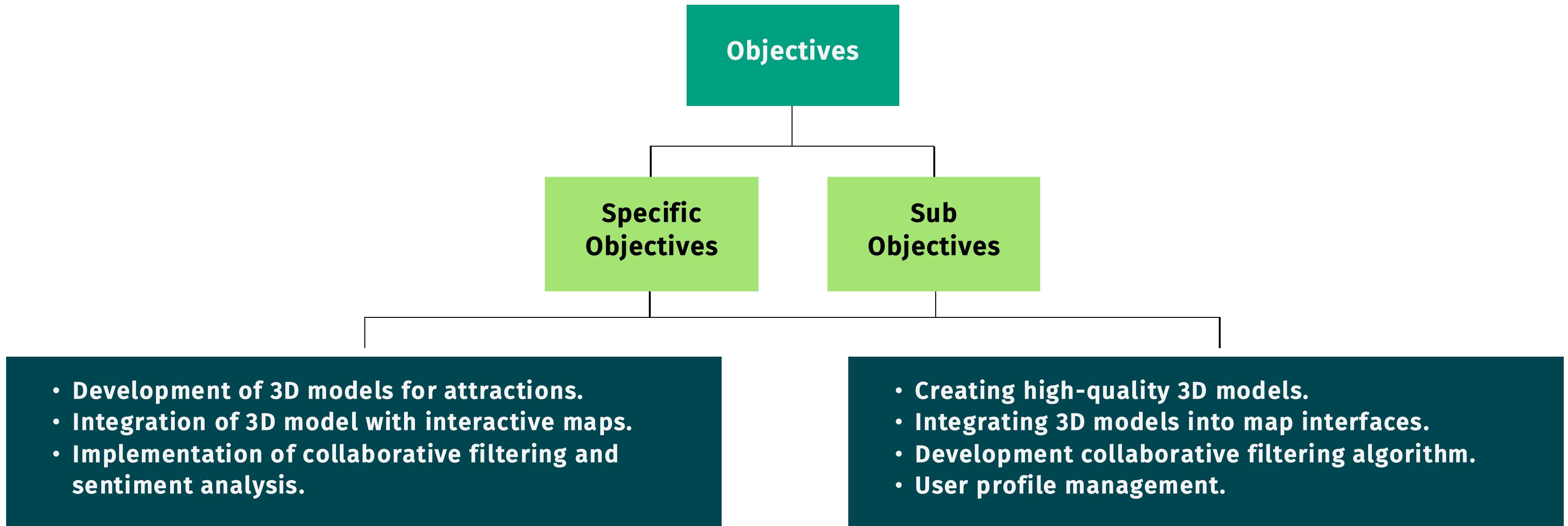


Research Problem

- How can 3D models and personalised recommendation systems be utilized to enhance user engagement, satisfaction, and overall experience in exploring local attractions through interactive maps, taking into account user preferences, behaviors, and feedback?

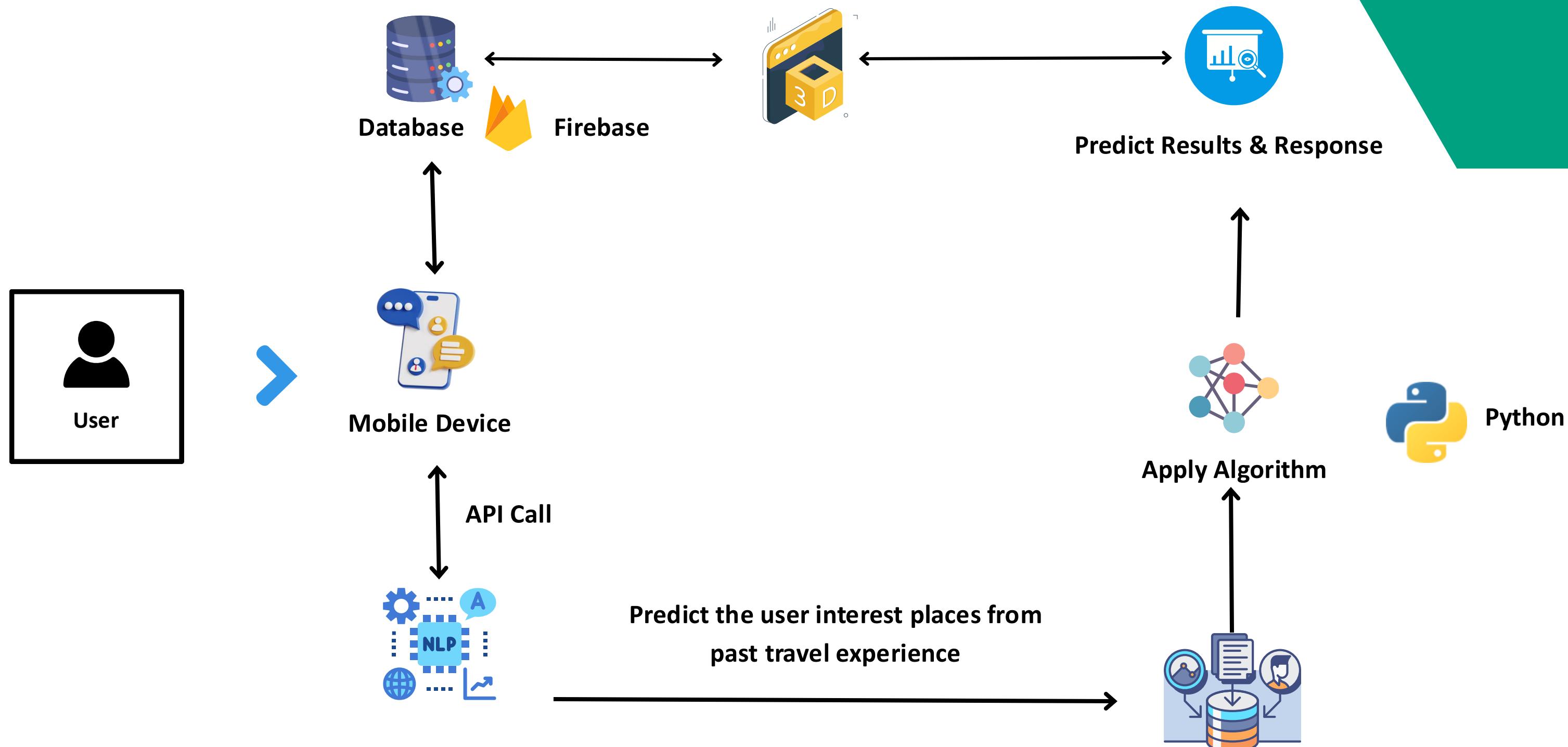


Objectives



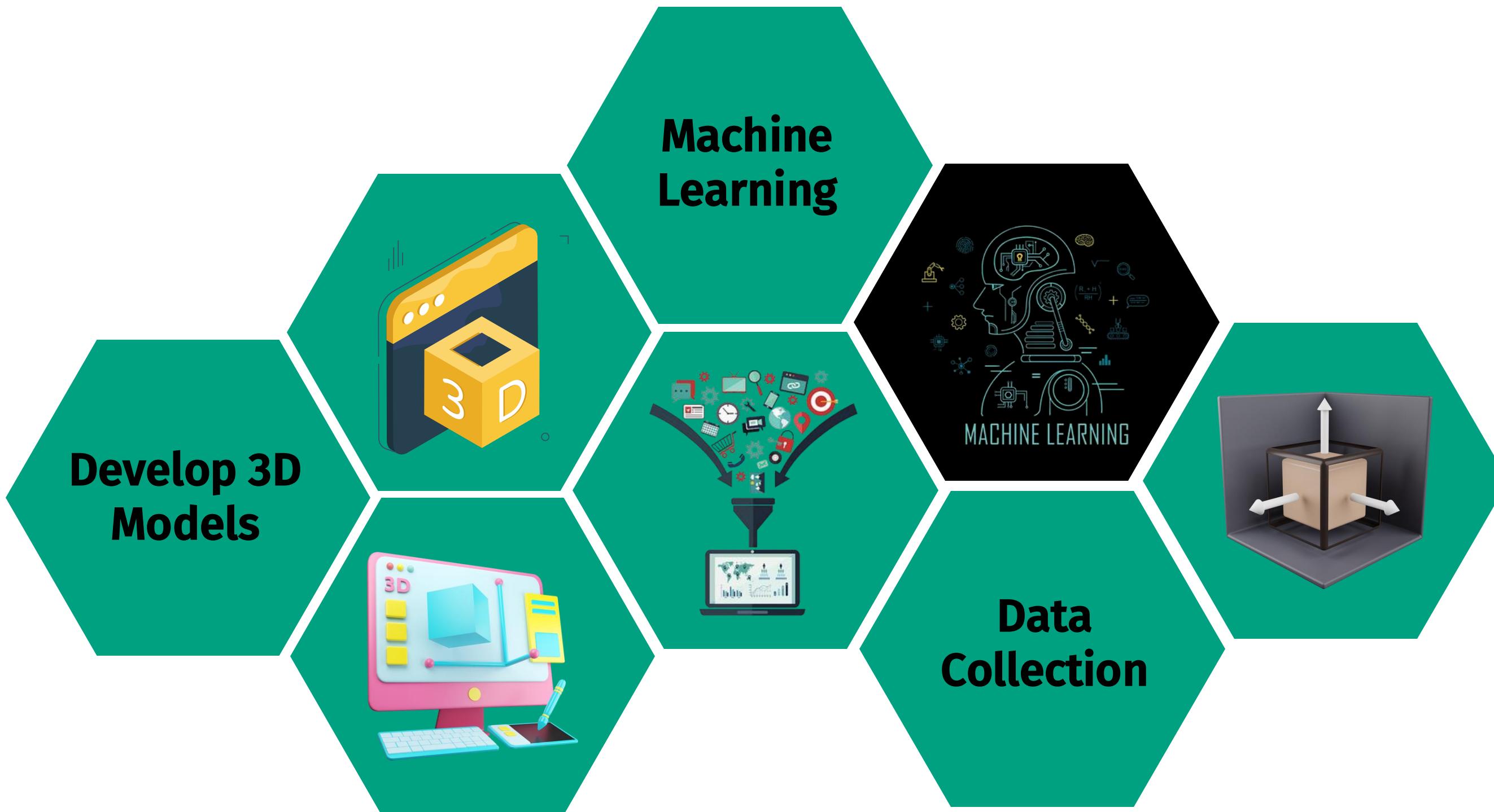


Methodology





Key Pillars





Componenet Specific Requirements

Non - Functional Requirements

- Performance**
- Security**
- Reliability**
- Usability**
- Compliance**





Data Set

name	location	province	description	category
Mirissa Beach	Mirissa	Southern	A stunning crescent-shaped beach known for whale watching and surfing, with golden sand and turquoise waters.	Beaches
Unawatuna Beach	Unawatuna	Southern	A popular horseshoe-shaped beach with calm waters ideal for swimming and snorkeling, bordered by coconut palms.	Beaches
Bentota Beach	Bentota	Southern	A long stretch of golden sand beach famous for water sports and ayurvedic spa resorts.	Beaches
Arugam Bay	Pottuvil	Eastern	One of Asia's best surfing destinations with a laid-back atmosphere and beautiful curved bay.	Beaches
Pasikuda Beach	Pasikuda	Eastern	Known for its shallow coastline where visitors can walk far into the ocean, with crystal clear waters.	Beaches
Uppuveli Beach	Trincomalee	Eastern	A serene beach with calm waters and golden sand, perfect for swimming and relaxation.	Beaches
Nilaveli Beach	Trincomalee	Eastern	A pristine white sand beach with crystal clear waters, gateway to Pigeon Island National Park.	Beaches
Kalkudah Beach	Kalkudah	Eastern	A long, wide stretch of pristine beach with shallow waters, ideal for swimming.	Beaches
Hikkaduwa Beach	Hikkaduwa	Southern	Famous for coral reefs and marine life, popular for snorkeling and glass-bottom boat tours.	Beaches
Tangalle Beach	Tangalle	Southern	Secluded beach with rocky outcrops and peaceful atmosphere, known for sea turtle nesting.	Beaches
Weligama Bay	Weligama	Southern	A wide bay known for beginner-friendly surfing and traditional stilt fishermen.	Beaches
Koggala Beach	Koggala	Southern	A long stretch of relatively undeveloped beach, known for stilt fishing and sea turtle hatcheries.	Beaches
Dickwella Beach	Dickwella	Southern	A sheltered bay with calm waters perfect for swimming and relaxation.	Beaches
Polhena Beach	Matara	Southern	A natural swimming pool protected by an offshore reef, ideal for swimming and snorkeling.	Beaches
Casuarina Beach	Jaffna	Northern	Named after casuarina trees lining the shore, offering peaceful views and shallow waters.	Beaches
Mount Lavinia Beach	Colombo	Western	A popular city beach with golden sands and vibrant nightlife, close to Colombo.	Beaches
Negombo Beach	Negombo	Western	A wide sandy beach with a lively atmosphere, close to the international airport.	Beaches
Kalpitiya Beach	Kalpitiya	North Western	Known for kitesurfing and dolphin watching, with a rustic, undeveloped feel.	Beaches
Beruwala Beach	Beruwala	Western	The first Muslim settlement in Sri Lanka with a golden stretch of sand.	Beaches
Induruwa Beach	Induruwa	Western	A quiet beach destination with fewer crowds and a peaceful atmosphere.	Beaches
Talalla Beach	Talalla	Southern	A large bay with white sand and turquoise waters, relatively undiscovered.	Beaches
Trincomalee Harbor Beach	Trincomalee	Eastern	One of the world's largest natural harbors with scenic views and historical significance.	Beaches
Ventura Beach	Colombo	Western	An urban beach park with recreational facilities and ocean views.	Beaches
Marble Beach	Trincomalee	Eastern	A small cove with unique marble-like smooth rocks and clear blue waters.	Beaches
Wijaya Beach	Dalawella	Southern	A small beach with a natural rock pool and famous rope swing for photos.	Beaches
Marakolliya Beach	Tangalle	Southern	An isolated beach stretch with minimal development and good swimming conditions.	Beaches
Kahandamoda Beach	Kahandamoda	Southern	A rural beach where the Walawe River meets the ocean, offering unique landscapes.	Beaches
Batticaloa Beach	Batticaloa	Eastern	A beach near the famous 'singing fish' lagoon, with cultural significance.	Beaches
Pigeon Island Beach	Nilaveli	Eastern	A small beach on a protected marine national park with excellent snorkeling.	Beaches
Jungle Beach	Unawatuna	Southern	A secluded beach accessible by a short trek through jungle terrain.	Beaches
Sigiriya Rock Fortress	Sigiriya	Central	An ancient rock fortress with frescoes and water gardens, built by King Kashyapa in the 5th century.	Cultural/Heritage Sites
Polonnaruwa Ancient City	Polonnaruwa	North Central	Medieval capital with well-preserved stupas, temples, and statues from the 12th century.	Cultural/Heritage Sites
Anuradhapura Sacred City	Anuradhapura	North Central	Sri Lanka's first capital with ancient dagobas, temples, and the sacred Sri Maha Bodhi tree.	Cultural/Heritage Sites
Galle Fort	Galle	Southern	A UNESCO World Heritage site with Dutch colonial architecture and rampart walls.	Cultural/Heritage Sites
Kandy Sacred City	Kandy	Central	The last capital of ancient kings, home to the Temple of the Tooth and Kandy Lake.	Cultural/Heritage Sites
Dambulla Cave Temple	Dambulla	Central	A UNESCO site featuring five caves with over 150 Buddha statues and ancient murals.	Cultural/Heritage Sites



Data Set

Katuwana Fort	Katuwana	Southern	A Dutch-era inland fort built in the 17th century, the only remaining inland fort.	Cultural/Heritage Sites
Magul Maha Viharaya	Lahugala	Eastern	15th-century temple with elaborate stone carvings celebrating a royal wedding.	Cultural/Heritage Sites
Yatala Vehera	Tissamaharama	Southern	Ancient stupa built by King Mahanaga in the 3rd century BCE.	Cultural/Heritage Sites
Sri Dalada Maligawa (Temple of the Tooth)	Kandy	Central	Sacred Buddhist temple housing Buddha's tooth relic in a golden casket.	Temples
Kelaniya Raja Maha Viharaya	Kelaniya	Western	Ancient temple believed to have been visited by Buddha, with important murals and sculptures.	Temples
Gangaramaya Temple	Colombo	Western	Eclectic temple complex with a mix of Sri Lankan, Thai, Indian, and Chinese architecture.	Temples
Dambulla Cave Temple	Dambulla	Central	Rock cave complex with 153 Buddha statues, 4 statues of gods and kings, and numerous paintings.	Temples
Maha Vishnu Devalaya	Kandy	Central	One of the four guardian deities of Sri Lanka dedicated to god Vishnu.	Temples
Kataragama Temple	Kataragama	Uva	Sacred complex visited by Buddhists, Hindus, Muslims, and indigenous Vedda people.	Temples
Saman Devalaya	Ratnapura	Sabaragamuwa	Temple dedicated to deity Saman, the guardian of Sri Pada (Adam's Peak).	Temples
Natha Devalaya	Kandy	Central	One of the oldest structures in Kandy dedicated to deity Natha.	Temples
Gadaladeniya Temple	Kandy	Central	14th-century temple with South Indian architectural influences built on a rock.	Temples
Lankathilaka Temple	Kandy	Central	Impressive temple with white outer walls and intricate interior paintings.	Temples
Wewurukannala Viharaya	Dickwella	Southern	Temple known for its 50m-tall seated Buddha statue, one of the tallest in Sri Lanka.	Temples
Muthiyangana Raja Maha Viharaya	Badulla	Uva	One of the 16 places believed to have been visited by Buddha in Sri Lanka.	Temples
Bellanwila Rajamaha Viharaya	Colombo	Western	Temple known for its sacred Bodhi tree, believed to be from the original Sri Maha Bodhi.	Temples
Seruwila Mangala Raja Maha Viharaya	Trincomalee	Eastern	One of the 16 main places of worship (Solosmasthana) in Sri Lanka.	Temples
Nagadeepa Purana Viharaya	Jaffna	Northern	Ancient temple on Nainativu Island believed to have been visited by Buddha.	Temples
Ruhunu Maha Kataragama Devalaya	Kataragama	Uva	Temple complex dedicated to deity Kataragama, important pilgrimage site.	Temples
Munneswaram Temple	Chilaw	North Western	Ancient Hindu temple complex dating back to 1000 CE dedicated to Lord Shiva.	Temples
Nallur Kandaswamy Temple	Jaffna	Northern	One of the most important Hindu temples in the country, dedicated to Lord Murugan.	Temples
Thirukoneswaram Temple	Trincomalee	Eastern	Ancient Hindu cliff-top temple with panoramic views of the Indian Ocean.	Temples
Maha Bodhi Temple	Anuradhapura	North Central	Temple built around the sacred Sri Maha Bodhi tree, oldest historically documented tree.	Temples
Situlpawwa Ancient Buddhist Monastery	Yala	Southern	2nd-century rock temple inside Yala National Park with ancient statues and stupas.	Temples
Mirisavatiya Stupa	Anuradhapura	North Central	Stupa built by King Dutugemunu after achieving victory over King Elara.	Temples
Sathmalah Prasada	Polonnaruwa	North Central	Unique seven-story pyramid-shaped building with unclear origins and purpose.	Temples
Ridee Viharaya	Kurunegala	North Western	Temple known for silver ore found in the area, with ancient paintings and artifacts.	Temples
Somawathie Chaitya	Polonnaruwa	North Central	Stupa containing the right tooth relic of the Buddha, located within wildlife sanctuary.	Temples
Tissa Maha Viharaya	Kalutara	Western	Ancient temple with a 6-meter reclining Buddha statue and colorful paintings.	Temples
Digamadulla Maha Viharaya	Ampara	Eastern	Ancient temple complex with historical significance in the eastern province.	Temples
Giriadu Seya	Trincomalee	Eastern	Believed to be the first stupa built in Sri Lanka containing hair relics of Buddha.	Temples
Sangamitta Viharaya	Galle	Southern	Temple dedicated to Sangamitta Theri who brought the Bodhi tree sapling to Sri Lanka.	Temples
Rambukkana Maligatenna Temple	Rambukkana	Sabaragamuwa	Rock temple with ancient cave paintings and inscriptions.	Temples
Yala National Park	Hambantota	Southern	Sri Lanka's most visited park, famous for leopards, elephants, and sloth bears.	Wildlife/National Parks
Udawalawe National Park	Udawalawe	Sabaragamuwa	Known for large elephant herds and the Elephant Transit Home for orphaned calves.	Wildlife/National Parks
Wilpattu National Park	Puttalam	North Western	The largest national park with natural lakes called 'villus' and diverse wildlife.	Wildlife/National Parks
Horton Plains National Park	Nuwara Eliya	Central	Misty highland plateau with unique vegetation, sambar deer, and the famous World's End cliff.	Wildlife/National Parks



Data Set

Madulsima	Madulsima	Uva	Remote tea plantation area with stunning views and minimal tourist development.	Hill Stations
Diyatalawa	Diyatalawa	Uva	Military town with a cool climate, popular for training and recreation.	Hill Stations
Patana	Haputale	Uva	Small settlement with vast grasslands (patanas) and panoramic mountain views.	Hill Stations
Haldummulla	Haldummulla	Uva	Hill country junction town on the old Colombo-Badulla main road with colonial history.	Hill Stations
Idalgashinna	Idalgashinna	Uva	Remote mountain pass with the third highest railway station and spectacular views.	Hill Stations
Royal Botanical Gardens	Peradeniya	Central	Sri Lanka's largest botanical garden with over 4,000 plant species and giant Java fig avenue.	Gardens
Hakgala Botanical Gardens	Nuwara Eliya	Central	Second largest gardens in Sri Lanka with roses, orchids, and fernery at high elevation.	Gardens
Henarathgoda Botanical Garden	Gampaha	Western	Historic garden where the first rubber trees in Asia were successfully cultivated.	Gardens
Gampaha Botanical Garden	Gampaha	Western	Medicinal plant garden with hundreds of species used in traditional Ayurvedic medicine.	Gardens
Dry Zone Botanical Gardens	Hambantota	Southern	Specialized garden showcasing plants adapted to Sri Lanka's dry climate regions.	Gardens
Mirijjawila Botanical Garden	Hambantota	Southern	Newest botanical garden focused on dry and arid zone flora with butterfly garden.	Gardens
Seethawaka Wet Zone Botanical Garden	Avissawella	Western	Garden preserving threatened plants of Sri Lanka's wet zone rainforests.	Gardens
Dambulla Dedicated Economic Centre Garder Dambulla	Dambulla	Central	Commercial plants and vegetable demonstration garden at agricultural trading hub.	Gardens
Matale Spice Garden	Matale	Central	Educational garden showcasing cinnamon, cardamom, pepper and other spice plants.	Gardens
Euphoria Spice and Herbal Garden	Matale	Central	Traditional spice garden with medicinal plants and processing demonstrations.	Gardens
New Colonial Spice Garden	Kandy	Central	Interactive spice garden with culinary demonstrations and traditional medicine displays.	Gardens
Lunuganga Estate Gardens	Bentota	Southern	Geoffrey Bawa's personal garden estate with architectural landscaping features.	Gardens
Brief Garden	Bentota	Southern	Bevis Bawa's fantastical garden with sculptures, ponds, and artistic landscape design.	Gardens
Lady Horton's Walk	Kandy	Central	Historic hillside garden with walking paths and panoramic views of Kandy.	Gardens
Victoria Park	Nuwara Eliya	Central	Colonial-era public garden with seasonal flower displays and manicured lawns.	Gardens
Viharamahadevi Park	Colombo	Western	Colombo's largest public park with flowering trees, water features, and play areas.	Gardens
Japanese Peace Pagoda Garden	Unawatuna	Southern	Zen-influenced garden surrounding the hilltop white pagoda with coastal views.	Gardens
Katuwana Herbal Garden	Katuwana	Southern	Educational center for indigenous medicinal plants used in traditional healing.	Gardens
Lotus Tower Garden	Colombo	Western	Modern landscaped garden surrounding Sri Lanka's tallest structure.	Gardens
Udawatta Kele Sanctuary	Kandy	Central	Historic royal forest garden adjacent to the Temple of the Tooth with walking trails.	Gardens
Waters Edge Garden	Colombo	Western	Manicured lakeside gardens with water features, topiary and recreation areas.	Gardens
Helga's Folly Garden	Kandy	Central	Eclectic artistic garden with surreal sculptures and tropical plantings.	Gardens
Millennium Elephant Foundation Garden	Kegalle	Sabaragamuwa	Botanical collection focusing on elephant-friendly plants and foraging species.	Gardens
Dilmah Conservation Heritage Garden	Colombo	Western	Garden showcasing Sri Lanka's agricultural heritage plants and tea varieties.	Gardens
Sembuwatta Lake Garden	Elkaduwa	Central	Landscaped garden surrounding a stunning blue lake with viewpoints and facilities.	Gardens
Beruwala Ayurveda Garden	Beruwala	Western	Living collection of medicinal herbs used in traditional Sri Lankan medicine.	Gardens
Ranawana Arboretum	Kuruwita	Sabaragamuwa	Educational forest garden owned by the Institute of Indigenous Medicine.	Gardens
Galle Fort Rampart Garden	Galle	Southern	Colonial garden along the historic fort walls with ocean views and sea breeze.	Gardens
Negombo Lagoon Garden	Negombo	Western	Waterfront garden with mangrove species and coastal ecosystem plants.	Gardens
Dambana Indigenous Plant Garden	Mahiyangana	Uva	Garden maintained by Vedda indigenous people showcasing traditional plant uses.	Gardens
Pidurutalagala Sanctuary Garden	Nuwara Eliya	Central	Mountain garden with rare high-altitude plant species and misty landscapes.	Gardens
Colombo Port City Marina Gardens	Colombo	Western	New development of modern landscaped spaces with harbor views and public art.	Gardens



Completed Work (Progress Update)

1. Create the data set and pre process it.
2. Using the algorithm and analyse the best 3 places for the user.
3. Personalized the best places.
4. Train the algorithm.



Future Work

1. Collect the more data and pre process it.
2. Train the model and increase accuracy.
3. Design the 3D model and view the best places.



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IT21075544 | Heshan J.A.C.I
BSc (Hons) in Information Technology



COMPONENT 04

Provide timely and relevant suggestions for alternative places to visit when travel users original plans changed



Introduction

- Real-time itinerary adjustments suggest alternative destinations when time constraints arise.
- Instant emergency contact access with location-based precision for swift assistance.
- Personalized travel recommendations using user preferences and machine learning.



Research Gap

Lack of Real-Time Adaptive
Itinerary Adjustments

Limited Personalized
Recommendations

Insufficient Emergency
Support Integration

Inadequate Combination of
Features





System Comparison

Feature	Existing Solutions	Proposed System
Real-Time Dynamic Travel Recommendations	Most travel apps have fixed itineraries that don't adapt to real-time change	Timely and Relevant Suggestions for Alternative Places:
Emergency Service Integration	Emergency services often provide only basic SOS alerts	Easy way to contact local emergency services
Proactive Notifications and Alerts	Limited proactive notifications; often requires manual checks	Sends proactive alerts for changes in plans, delays, or potential emergencies, keeping users informed



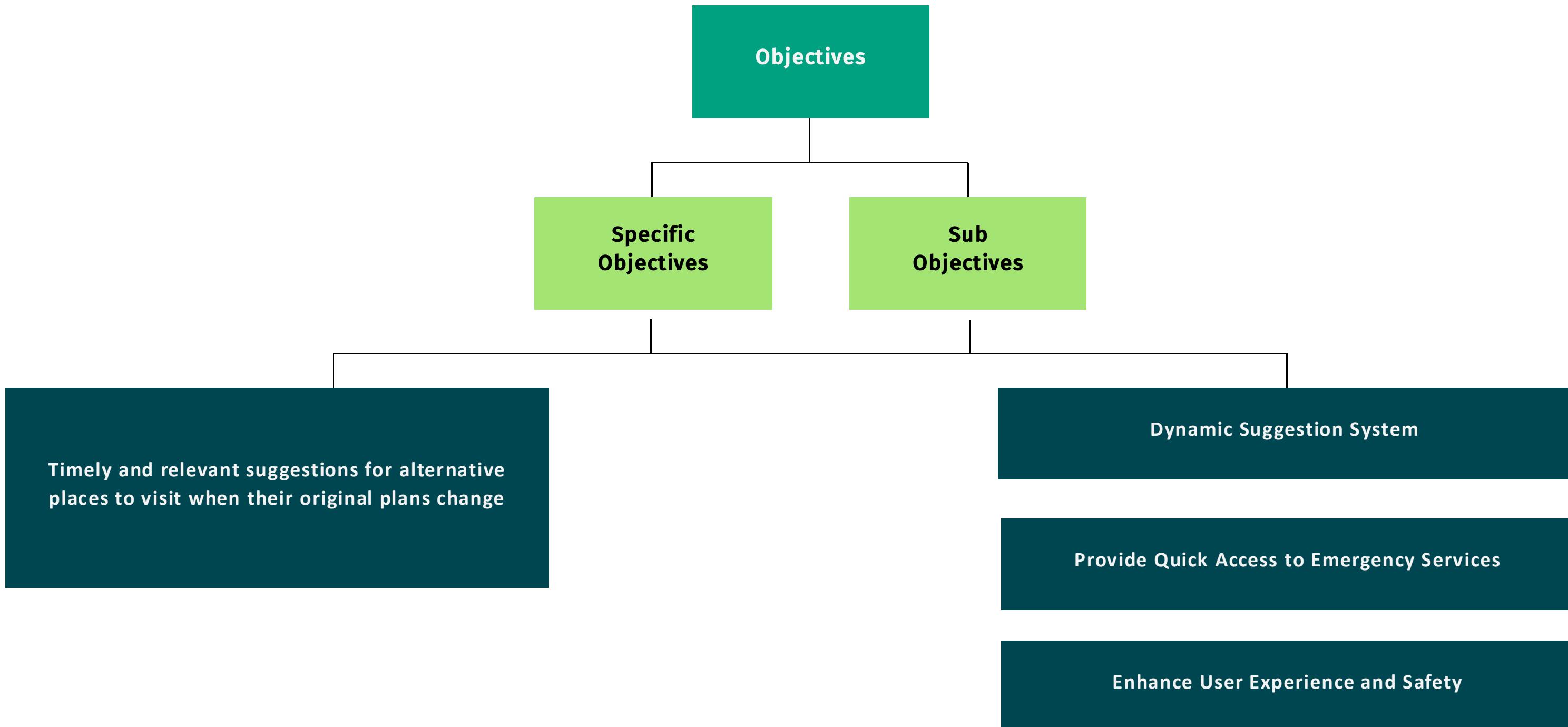
Research Problem

- How can real-time itinerary adjustments and emergency service integrations enhance user experience and safety in a travel management app, by providing personalized travel suggestions and immediate access to local emergency services based on user preferences, behaviors, and real-time data?



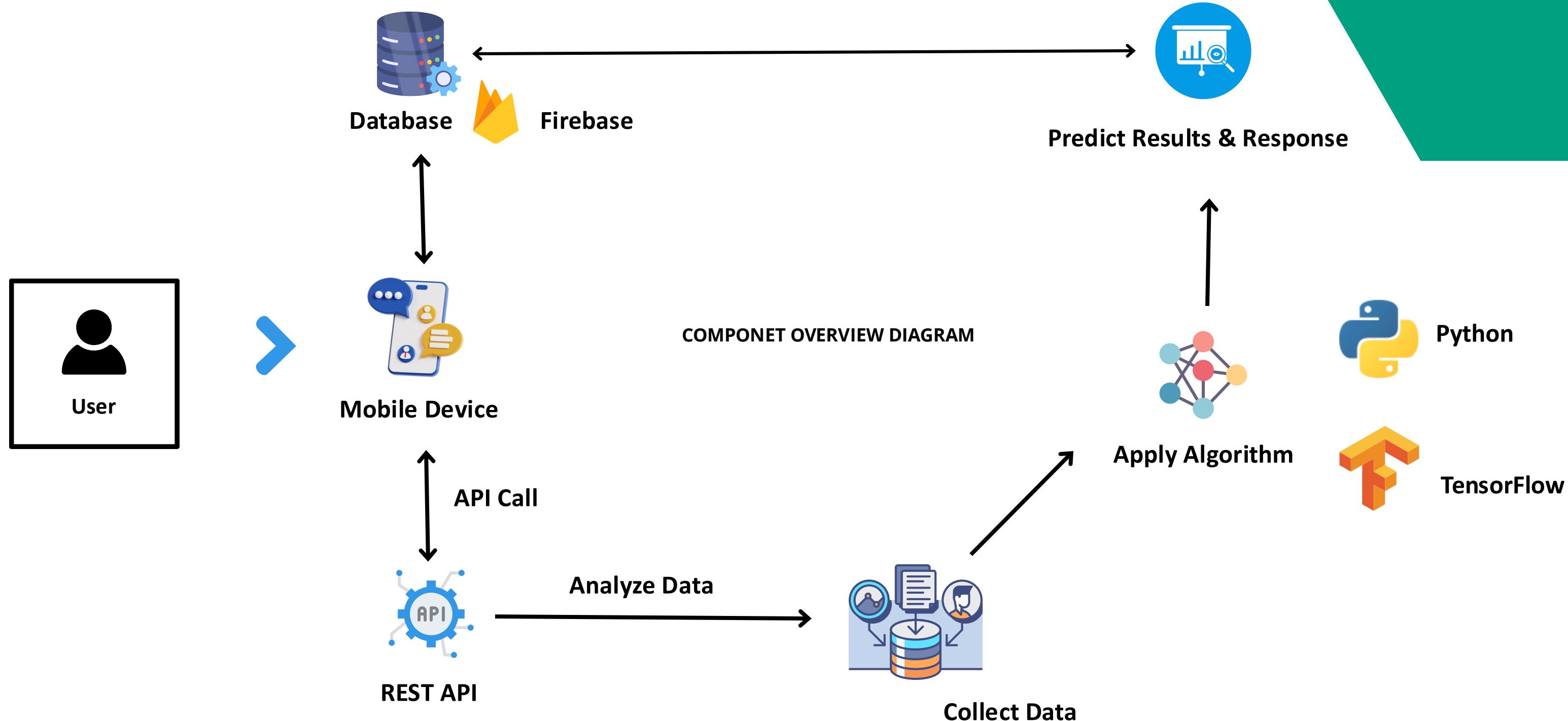


Objectives



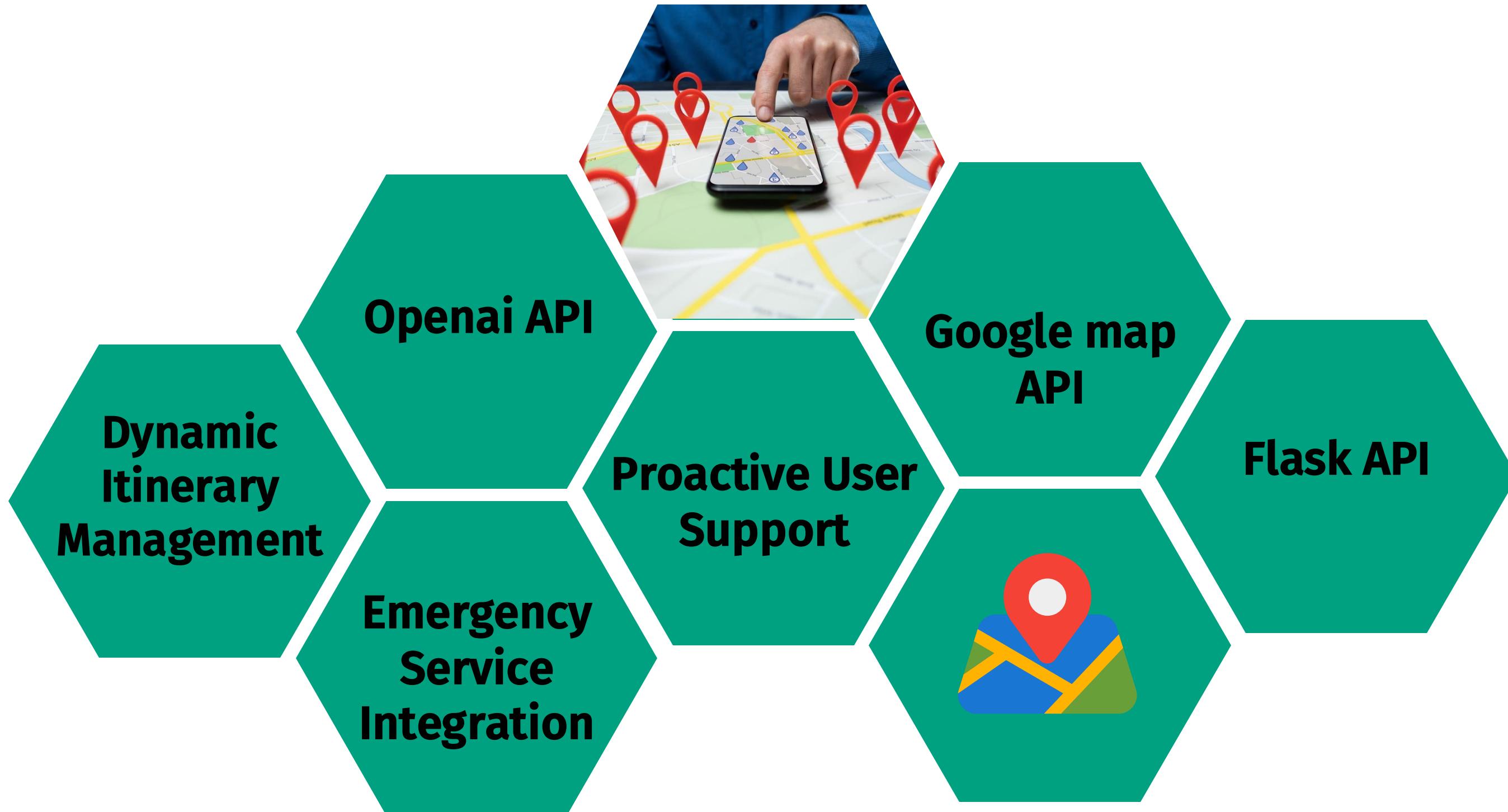


Methodology





Key Pillars





Component Specific Requirements

Functional Requirements

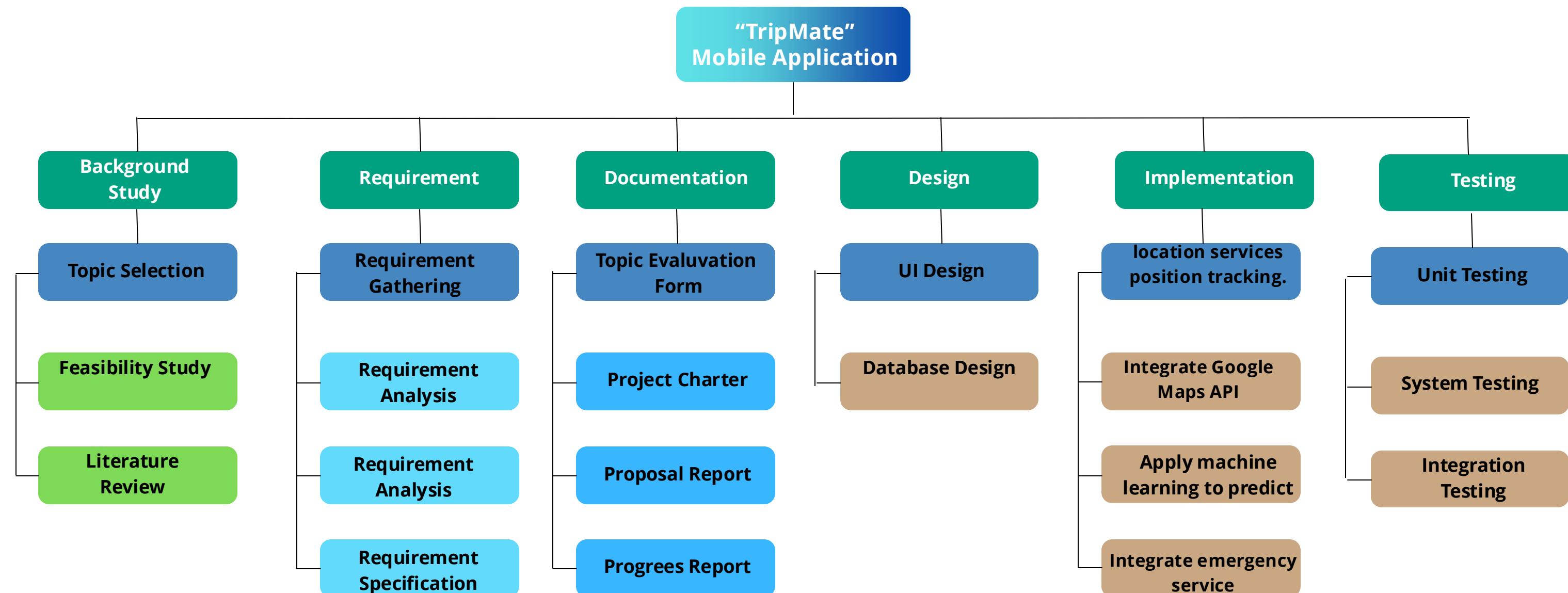
- Travel Plan Adjustment
- Context Aware Emergency Services
- Real-Time Data Integration



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Work Breakdown Chart





Completed Work (Progress Update)

- Frontend (45% Completed)
- User Inputs : Gathering from Traveler Trip Details.
- Machine Learning Model: Developed and tested a recommendation model for Similarity Places Suggestions.



Future Work

- Complete the remaining 55% of the UI
- Finalize integration and optimize the recommendation model for better accuracy.
- Implement continuous learning by collecting user feedback for future recommendations.
- Input data gathering from the traveler trip details by Integrating with the application



Dataset

Datasets Used:

- Place Data: User Data, Place Name, Location, Category (e.g., historical, adventure, religious).
 - Sri Lanka Tourism Development Authority
 - Kaggle

1. Purpose:

- Suggest Similar Places to Re-Schedule the Trip Plans .
- Recommend 3 top destinations that align with the same destinations like before.

1. Key Outputs:

- Re-Schedule the Trip Plan with Dynamic Changes
- Matching Destinations: Suggest Three Similar places to get like similar experience.



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Requirements

Personal Requirement

- **Travel Users**
- **Developers**

Non-Functional Requirement

- **Reliability**
- **Security**
- **Performance**
- **Usability**
- **Availability**

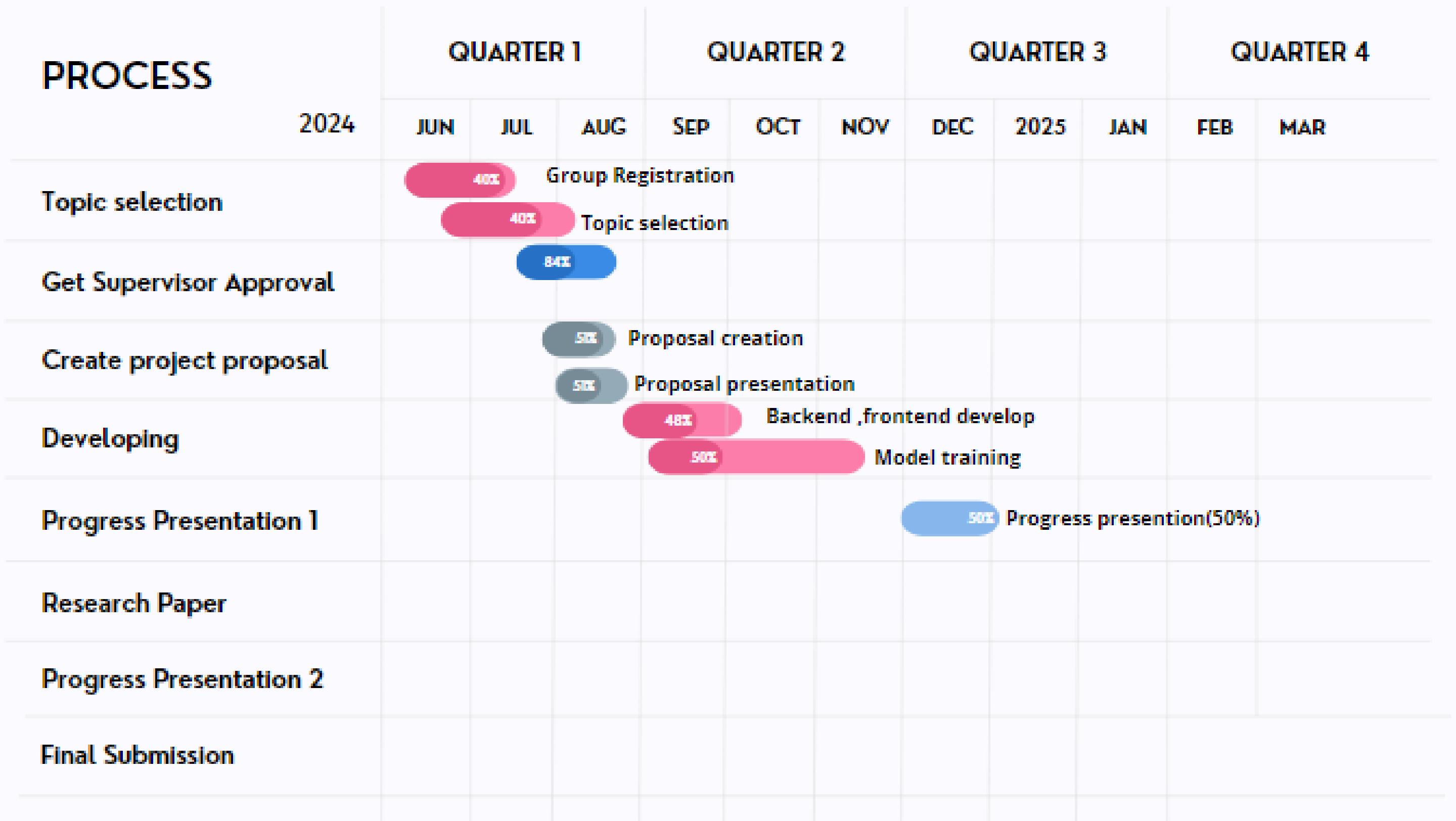
System Requirement

- **Software**
Visual Studio Code
React Native
Python
Firebase
Blender
- **Hardware**
Mobile Touch Screen





Gantt Chart





Budget

Component	Amount (USD)	Amount (LKR)
Traveling fee for the possible consultation sessions and data gathering. (Anuradhapura, Polonnaruwa Area)	\$49.98	15,000.00
Internet charges for the development and technical information learning.	\$16.66	5,000.00



Q & A



THANK YOU !