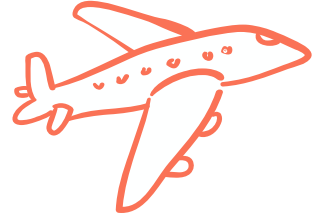


Wanderlust Travel Recommender

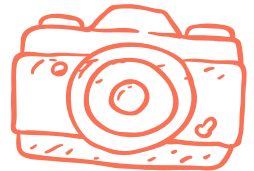
Sydney Divozzo, Cecile Darwiche,
Michael Sampino



The Problem



Conventional travel planning is time-consuming and overwhelming, often leading to information overload and difficulty in finding the right activities tailored to your interests in a new place.



Our Solution: Wanderlust Travel Recommender

Efficiency

Save time with a user-friendly platform that simplifies and accelerates the planning process.



Exploration

Receive recommendations aligned with individual preferences for a more enjoyable travel experience.



Personalization

Discover new destinations and activities tailored to your interests.



How does it work?

- **Web-based application for travel itinerary planning.**

- **Tailors recommendations based on user inputs such as cities and hotel preferences.**



Key Features



Functional Requirements

● **Create Account**

● **Read User Preferences**

● **Account Login**

● **Return Recommendation**

● **Account Settings**

● **Submit User Reviews**



Non-Functional Requirements

● **Password Encryption and Security**

● **Interference**

● **Automated Password Recovery Email**

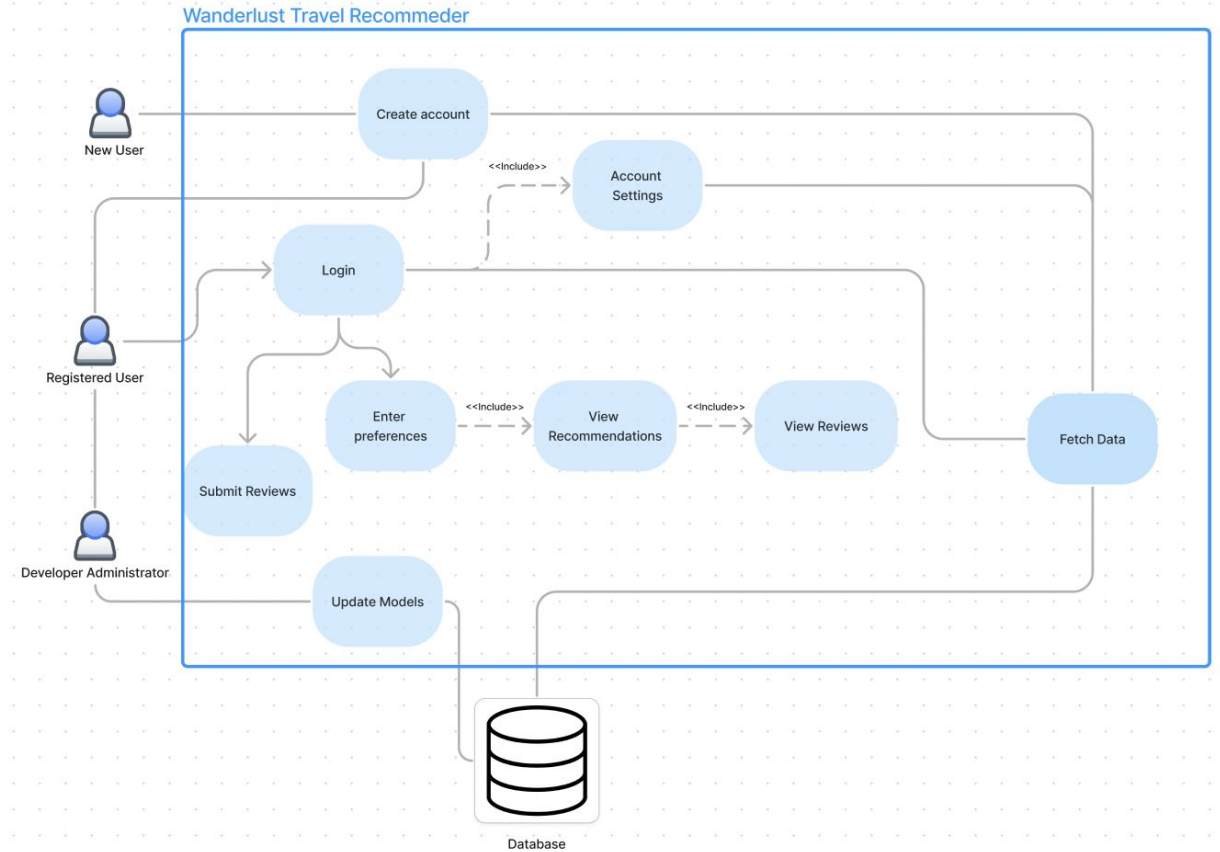
● **Model Replacement Downtime**

● **Uptime**

● **Concurrent Users**



Use-Case Diagram



Tool Constraints

Development Tool Constraint

Exclusively use NodeJS for server-side development.



Database Management System Constraint

PostgreSQL shall be the designated relational database management system

Version Control System Constraint

Employ Git for version control; the codebase will be hosted on GitHub.

Frontend Technologies Constraint

Implement client-side using HTML, CSS, JS. Ensure compatibility with modern browsers: Chrome, Firefox, Safari, Edge.



Language Constraints



Frontend Development Constraint

Develop the frontend user interface using HTML, CSS, and JavaScript.

Server-Side Development Constraint

Use Node.js for server-side programming in the backend of the Wanderlust Travel

Database Query Language Constraint

Utilize PostgreSQL's SQL for querying the relational database in the backend of the Wanderlust Travel Recommender.

Platform and Hardware Constraints

Platform Constraints

Web Browsers Compatibility Constraint

Compatible with modern web browsers: Google Chrome, Mozilla Firefox, Safari, and Microsoft Edge.

1

Device Compatibility Constraint

Accessible on desktop computers, laptops, and smartphones with internet connectivity.

2

Hardware Constraints

Minimum System Requirements Constraint

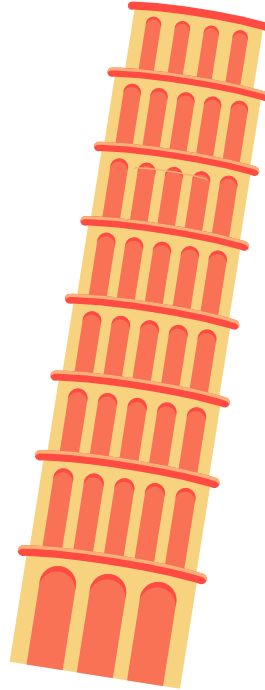
User's devices must meet minimum system requirements (internet connectivity and browser)

1

Processor Speed Constraint

Ensure the application operates seamlessly with varying processor speeds.

2



Network Constraints

1

Internet Connectivity Constraint

Requires a stable internet connection for users to access and interact with the application.

2

Bandwidth Requirements Constraint

Users should have sufficient bandwidth for a seamless experience, especially when accessing multimedia content or making API calls in the Wanderlust Travel Recommender.

3

Database Connectivity Constraint

The Wanderlust Travel Recommender, via server-side implementation, will establish a secure connection to the PostgreSQL database for storing and retrieving user data.

Deployment

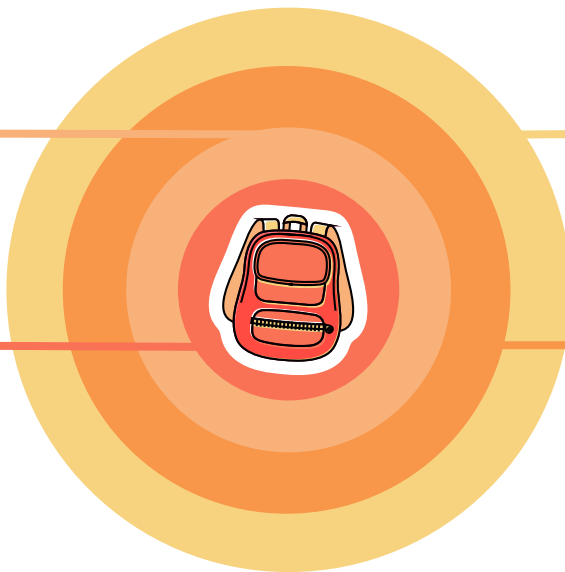
Transition and Support

Limited Maintenance Windows

Constrained by downtime allowances for deploying updates/new features

Dependency on Third Party APIs

Downtimes or changes in existing APIs may impact system functionality



Neural Network Maintenance Concern

If trouble, developers should be able to upload new set of parameters with little downtime

End of Life

Developers will stop working on project once semester is over, project will be retired

Budget and Schedule Constraints

SEMESTER END CONSTRAINT

Project should be finished
before Spring 2024
semester is over



BUDGET CONSTRAINT

Project has no
funding/budget

Miscellaneous Constraint



Data Backup and Disaster Recovery Constraint

Implementing data backup and disaster recovery mechanisms to protect against data loss and system failures



Evolutionary Requirements



FLIGHT TRACKING

Flight information can be entered and taken into consideration for recommendations



ACCOMMODATION BOOKINGS

User is able to book accommodations through the application



INTERNALIZATION & LOCALIZATION

Application is able to pick up on location to adopt language, currency and dates



ACCESSIBILITY

Software is accessible to users with disabilities and complies with accessibility standards

Functional

Non-functional

Thank you!
any questions?

