

CS371L Project Proposal

Group Number: 7

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Application Information

Application Name

WanderWise

Application Type

- **Travel:** The app is designed for travelers and tourists
- **Navigation and Map:** The app offers navigation to help users navigate to different places
- **Education:** The app aims to educate users about the place they visit, museums, or historical sites
- **Productivity:** The app assists users in planning their trips efficiently and send reminder notifications

General Description

Planning a trip can be stressful. There are an overwhelming amount of places you can go and things you can do but you might not even know where to start. There are some apps and websites like TripAdvisor, where you can find suggestions and reviews, and Wanderlog, where you can plan out your own itinerary. However, WanderWise combines these ideas and further simplifies the process. You no longer have to scroll through hundreds of options, read every review, or figure out how to fit everything you want into your schedule - WanderWise acts as your own personal tour guide.

With the integrated AI feature, all you have to do is put in some specifications about your trip and what you want to get out of it, and an itinerary is automatically created for you. These specifications include the travel destination, date, the option to include food, entertainment, and/or attractions. Once your itinerary is created, you have the opportunity to view and edit it, as well as view the different destinations on a map. Furthermore, you will have access to your own AI virtual tour guide through the app, providing instant answers to your questions and enriching your travel experience with insightful information about your surroundings.

Feature List

- **Loading Screen:** When the app is loading, loading screen will appear with logo
- **Login/Registration Screen:** Users can sign-in and sign-up using their email
- **Settings:** Update profile details (name / picture) and turn notifications on/off
- **Home Screen:** Show any current trip or the option to add new trip
- **Navigation UI:** Switch between itinerary, starting a new trip, and settings

- **New Trip:** Set the trip details, such as the date, time, location, and a preference of things you want to do/see during the trip
- **Itinerary:** See a schedule of the suggested itinerary by the AI and be able to edit it and add your own events
- **Chat With Virtual Tour Guide:** An interactive Q&A that helps user at any point of the journey, for example by giving them more information about the current place they're at
- **Timely notifications:** Receive timely notifications reminding users of upcoming activities and suggesting when it's time to move to the next destination
- **Map:** View the route to how to get to your next destination
- **Collaboration** (stretch goal): Users can add people to their trip so others can view and edit the itinerary. When adding to the itinerary, all of the users could vote on different events/places they wanted to go to.
 - Can also include challenges for the group like scavenger hunts
 - Can share past itineraries with other users
- **Award** (stretch goal): Give the users medals/awards when they finish visiting the location and encourage them to explore more places (to use the app more). Some examples of awards can be "Visit 3 museums," "Check out 3 national parks," "Walk 10 miles to your destinations"...
- **Animated Tour Guide** (stretch goal): An interactive character that will wave its hand when you enter the app and look like it's in a hurry when you're behind schedule

Target Audience

This app is designed for adults, but really for anyone interested in planning a trip. For young adults, the app serves as a tool in helping them navigate the experience of being in charge of planning for the first time in their lives. At its core, WanderWise aims to provide anyone with the confidence to go out and explore the world worry-free.

WanderWise is designed with inclusivity in mind, catering to individuals facing challenges related to hearing impairments and those navigating the complexities of group travel dynamics. Embrace the freedom to explore confidently with WanderWise, where seamless communication and harmonious group travel experiences are at the heart of our mission.

Why the users would be interested in our app:

- Perfect for those with hard-of-hearing conditions, WanderWise ensures clear communication by offering a virtual tour guide capable of answering personal questions, even in noisy group settings.
- Tailored for group travelers with diverse preferences and offering personalized itineraries that consider everyone's interests.
- Eases the stress of planning a trip to a place you are unfamiliar with and generates an itinerary within minutes.

Development Plan

Alpha (March 18)

Goals

- Have the basic functions of the app worked. Users should be able to create account and create new trip
- Finish the basic screens
 - Loading screen
 - Login screen
 - Home page
 - Creating a new trip screen
 - UI skeleton for itinerary screen
 - Create navigation bar and include functionality to switch between the different screens

Implementation

(Planning, Analysis, Design, Implementation, Testing and Integration)

Timeline	What need to be done
Week 1 Feb 12 - Feb 18	<ul style="list-style-type: none">• Research market<ul style="list-style-type: none">◦ Look at similar apps on AppStore to get more inspiration• Research what skills and tools we need to prepare for the implementation (obtain API key, which API to use...)• Choose color scheme and font for the app
Week 2 Feb 19 - Feb 25	<ul style="list-style-type: none">• Design the app screens using Figma• Design the app logo• Start the story boards skeleton for<ul style="list-style-type: none">◦ Login + Loading screen◦ Home page◦ New trip◦ Itinerary screen
Week 3 Feb 26 - Mar 3	<ul style="list-style-type: none">• Implement logic for each screen• Create navigation bar• Connect all the screen and ensure the switching work
Week 4 Mar 4 - Mar 10	<ul style="list-style-type: none">• Continue writing code for each screen• Link navigation bar to its designated screen• Testing
Week 5 Mar 11 - Mar 17	<ul style="list-style-type: none">• User testing• Debug and make sure everything work for the first launch

Beta (April 8)

Goals

- Have a working virtual tour guide
 - Daphne and linh
- Users should be able to access their profile page and change the settings
 - Mariana
- The app should send notifications to remind users about what's next on the schedule and when they should leave the current place
 - Eddie (notification manager class)
- The app should be able to generate itinerary with the given preferences, and itinerary screen shows the recommended schedule for the trip from the AI
 - Daphne and linh

Added:

- Firestore (Eddie)
- Fix storyboard (Mariana)
- Maps (Mariana)

Implementations

(Implementation, Testing and Integration)

Time	Tasks
Week 6 Mar 18 - Mar 24	<ul style="list-style-type: none">• Create storyboard for profile screen• Create the chat screen• Drafting API prompts and test the responses• Work on notifications for the next destination
Week 7 Mar 25 - Mar 31	<ul style="list-style-type: none">• Implement settings in profile screen<ul style="list-style-type: none">◦ Look into database/storage• Integrate the responses and have it showed on chat screen
Week 8 Apr 1 - Apr 7	<ul style="list-style-type: none">• User testing for chat bot• Debug and make sure everything function properly for the second launch

Final (April 29)

Goals

- User can see their general routes and is able to navigate to the next destination
- Add functionality to edit itinerary
- Stretch goals:
 - Invite other users to collaborate on your trips
 - expand the itinerary to recommend accommodations
 - Include more specific preferences, like types of cuisines for food and different types of entertainment and attractions you want when creating a trip
 - Provide links to sites if you have to book events or buy tickets
 - Choose from different suggestions and decide if you want to add them to your itinerary
 - Add favorite locations

Implementations

(Implementation, Testing and Maintenance)

Time	Tasks
Week 9 Apr 8 - Apr 14	<ul style="list-style-type: none">• Create a button that links to Google Map<ul style="list-style-type: none">◦ Show the general route of the whole itinerary• Create a map view when pressed into the next destination<ul style="list-style-type: none">◦ Link to Google Map that show how to get there from current location• Work on editing itinerary (moving activities around, change preferences)• Continue debugging the virtual tour guide/chatbot if needed
Week 10 Apr 15 - Apr 21	<ul style="list-style-type: none">• Test the map and navigation feature• Final touch up
Week 11 Apr 22 - Apr 28	<ul style="list-style-type: none">• Debug and thoroughly test the app before final launch