

Assignment 2: Software Requirements Specification

Stakeholder section

Team: Team 2

Project Title: Travel Companion

Members:

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Meetings date	Participants
01/27/2024	Christopher Cooley Tracy Hall-Petry Michael Rago Sharefa Alshaary Nabaha Abdul
01/30/2024	Christopher Cooley Tracy Hall-Petry Michael Rago Sharefa Alshaary Nabaha Abdul Brandon Sokolowski

Stakeholders	Requirements
Users	FR1: Login Screen UI FR2: Main Menu UI FR3: Translator FR4: Application Selector FR5: Weather Tool FR6: Map Tool FR7: Itinerary Planner FR10: Profile Editor FR12. Preferences Menu (Language Selection) FR13. Responsive Page Design FR14. Trip Sharing Feature

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Users with disabilities/ Accessibility Advocates	FR15.Accessibility Features
Database	FR8: Save Trip Functionality FR9: Fetch Trip Functionality FR11: Login Security
All	NFR1. User Profiles will be Private NFR2. User Location Data will be Private NFR3. Efficient Loading Time NFR4. Organized, easy-to-use display (Usability) NFR5. Application will be Reliable NFR6. Data Security Compliance

FR1. Login Screen UI		
Goal: The user will be prompted with a screen to log in to their personal account		
Stakeholders: Users		
When a user opens the web page they should be prompted with a screen allowing them to enter a username and password to log in to their personal account. When logging in the web page will then retrieve all trips and logs previously stored by the user as well as have access to save new data to be retrieved at a future date		
<u>Origin:</u> Based on initial project conception.		
<u>Version:</u> 1.0	<u>Date:</u> 01/27/2024	<u>Priority:</u> 1

FR2. Main Menu UI

Goal: Provide a simple menu to select a desired function or tool to utilize from the web page

Stakeholders: Users

Once a user is logged in, they should be provided a selection screen with options to load a previous trip, create a new trip, or utilize a tool such as a translator or map utility. Selecting one of these options should open a new page containing the specified functionality that was selected by the user.

Origin: Based on initial project conception.

Version: 1.0

Date: 01/27/2024

Priority: 1

FR3. Translator

Goal: Implement a functional translator within the web page accessible by selecting the translator tool

Stakeholders: Users

When a user selects that they would like to use the translator tool, a new page should open with the on-board translator. The translator should be ready for utilization and be able to archive any translations made during its use

Origin: Based on initial project conception.

Version: 1.0

Date: 01/27/2024

Priority: 1

FR4. Application Selector

Goal: Within the tool utilization window users can select a specific tool they would like to use including a map, translator, itinerary planner, or weather tool.

Stakeholders: Users

When a user selects that they would like to use a tool on the main menu, a secondary menu will load providing the user with a list of available tools to use as well as an option to return to the main menu. When a tool is selected that tools menu should load and the selection menu should close. If the main menu is selected the selection menu for tools should close and the main menu should open.

Origin: Based on initial project conception.

Version: 1.0

Date: 01/27/2024

Priority: 1

FR5. Weather Tool

Goal: Implement a functional Weather within the web page accessible by selecting the Weather tool.

Stakeholders: Users

When a user selects that they would like to use the Weather tool, a new page should open with the on-board Weather. The Weather will display a current 7-day forecast for the user's current location or planned location.

Origin: Based on initial project conception.

Version: 1.0

Date: 01/27/2024

Priority: 2

FR6. Map Tool

Goal: Implement a functional Map within the web page accessible by selecting the Map tool.

Stakeholders: Users

When a user selects that they would like to use the map tool, a new page should open with the map tool. The map will read the user's current location and display their surrounding area.

Origin: Based on initial project conception.

Version: 1.0

Date: 01/27/2024

Priority: 2

FR7. Itinerary Planner

Goal: Implement a functional Planner within the web page accessible by selecting the Itinerary planner tool.

Stakeholders: Users

When a user selects that they would like to use the Itinerary planner, a new page should open with the on-board Itinerary planner. The Planner will display all the plans previously made. The planner should also be able to archive all plans created while using the tool.

Origin: Based on initial project conception.

Version: 1.0

Date: 01/27/2024

Priority: 3

FR8. Save Trip Functionality

Goal: The system will support users being able to save a planned trip and its details.

Stakeholders: Database

Once a user has used tools for a specific trip (using the translator, planning an itinerary, etc.), the system should support the function of saving the work that has been done to the trip. This will allow them to recall the trip details at a later date.

Origin: Based on initial project conception.

Version: 1.0

Date: 01/27/2024

Priority: 1

FR9. Fetch Trip Functionality

Goal: The system will support users being able to retrieve an existing trip to view or make edits to.

Stakeholders: Database

Once a user has made a trip entry, the system will display a list of all existing trips that their account made. Once they choose one, the website will allow them to view the saved information such as translation history and itinerary. They should also be able to make edits to the trip details.

Origin: Based on initial project conception.

Version: 1.0

Date: 01/27/2024

Priority: 1

FR10. Profile Editor

Goal: Enable users to manage their profile settings and preferences

Stakeholders: Users

Upon logging in, users should have access to a profile management section where they can update personal information, change passwords, and adjust notification settings. Changes made to the profile should be saved and reflected across the application

Origin: Based on initial project conception.

Version: 1.0

Date: 01/27/2024

Priority: 2

FR11. Login Security

Goal: Provide users with an extra layer of security while logging in to the Travel Companion account, as travel information can be very sensitive.

Stakeholders: Database

The Travel Companion app will provide a secure login page for the users in order to guarantee their sensitive travel information will not potentially fall at risk.

Origin: Based on initial project conception.

Version: 1.0

Date: 01/27/2024

Priority: 1

FR12. Preferences Menu (Language Selection)

Goal: Allow users to customize the application in terms of language preference and display in order to enhance usability.

Stakeholders: Users

The Travel Companion is an app for everyone across the globe, so it is important to accommodate various language selections in the platform. The user will be able to choose their preferred language when they first open the application.

Origin: Based on initial project conception.

Version: 1.0

Date: 01/27/2024

Priority: 3

FR13. Responsive Page Design

Goal: Have the layout of the website adjust dynamically according to the viewport's current resolution.

Stakeholders: Users

The Travel Companion will be used by a wide range of devices encompassing a wide range of resolutions, and incorporating responsive web design will allow for positive UX across all possible devices.

Origin: Based on initial project conception.

Version: 1.0

Date: 01/27/2024

Priority: 3

FR14. Trip Sharing Feature

Goal: Allow users to share their planned trips with other users or via external platforms.

Stakeholders: Users

After saving a trip, users should have the option to share it with other users registered on the platform or through external channels such as email or social media. The shared trip should include all relevant details and be accessible to recipients with appropriate permissions.

Origin: Based on initial project conception.

Version: 1.0

Date: 01/27/2024

Priority: 4

FR15. Accessibility Features

Goal: Ensure the application is accessible to users with disabilities.

Stakeholders: Users with disabilities and accessibility advocates

The application interface and functionalities should adhere to accessibility standards such as WCAG (Web Content Accessibility Guidelines) to ensure that users with disabilities can navigate, interact with, and understand the content effectively. This includes providing alternative text for images, keyboard navigation support, color contrast considerations, and other accessibility features.

Origin: Suggested by team member for ease of use during meeting

Version: 1.0

Date: 01/27/2024

Priority: 2

NFR1. User Profiles will be Private

Goal: Users will only be able to view data for their password-protected profile.

Stakeholders: All

There will be sensitive data pertaining to users' trips, and exposing this data could allow for outsiders to know when people are planning on leaving and where they will be. We will keep this data private from other users by requiring a password and by only allowing access to the data if they sign into the correct account.

Origin: Based on initial project conception.

Version: 1.0

Date: 01/27/2024

Priority: 1

NFR2. User Location Data will be Private

Goal: All location data for the user will not be accessible by any other user or outside party with potential malicious intent

Stakeholders: All

There will be an encryption method in place in order to safely communicate current or saved location data associated with any user accounts. Encryption method would include encryption prior to transmission and storing encrypted data. Decryption would happen on the user's client that way all data that is transmitted and stored is encrypted and can only be decrypted by the user.

Origin: Based on initial project conception.

Version: 1.0

Date: 01/27/2024

Priority: 1

NFR3. Efficient Loading Time

Goal: Initial page load time should be under 4 seconds with subsequent page load times being under 0.5 seconds.

Stakeholders: All

It is frustrating user experience to have to wait for pages to load. The Travel Companion app will have an initial page load under 4 seconds, and any page load after that should be practically instantaneous. If needed, sections using external calls will load in when needed.

Origin: Based on initial project conception.

Version: 1.0

Date: 01/27/2024

Priority: 3

NFR4. Organized, easy-to-use display

Goal: Create an intuitive and user-friendly design for ease of use by the audience.

Stakeholders: All

The main goal of our travel app is to combine all the necessary features found in various current apps into one, intuitive platform. By doing so, users will feel more comfortable using the Travel Companion, rather than having to switch between multiple different apps just to accomplish the same goal.

Origin: Based on initial project conception.

Version: 1.0

Date: 01/27/2024

Priority: 2

NFR5. Application will be Reliable		
Goal: Ensure consistent and dependable performance of the application under various conditions		
Stakeholders: All		
The goal is to minimize system downtime, crashes, and errors to provide users with a reliable experience. This includes robust error handling, graceful degradation under high loads, redundancy in critical components, and proactive monitoring to detect and address issues promptly.		
<u>Origin:</u> Based on initial project conception.		
<u>Version:</u> 1.0	<u>Date:</u> 01/27/2024	<u>Priority:</u> 1

NFR6. Data Security Compliance		
Goal: Ensure compliance with relevant data security standards and regulations.		
Stakeholders: All		
The application must adhere to industry-standard data security practices and comply with regulations such as GDPR (General Data Protection Regulation) and CCPA (California Consumer Privacy Act). This includes implementing measures for data encryption, secure transmission protocols, access controls, data minimization, and regular security audits to safeguard user information and maintain trust.		
<u>Origin:</u> Based on initial project conception.		
<u>Version:</u> 1.0	<u>Date:</u> 01/27/2024	<u>Priority:</u> 1