

## SW Engineering CSC648/848

Application Name: DestiGo

Section 04, Team 06

Name	Role
Sahej Tuli	Team Lead
Ray Dela Cruz	Front-End Lead
Jessica Christine Rosero	Back-End Lead
Navjot Singh	Git Master
Faheemah Shaikh	Scrum Master
Ryan Tong	Full-Stack Developer

### Milestone 1

September 27, 2023

Revision Table			
Revision	Date	Author(s)	Description of Changes
1	09/27/2023	Team Members	Initial Draft

### Executive Summary:

“DestiGo” is a revolutionary one-stop travel app that transforms the way travelers plan and experience their journeys. With “DestiGo”, users have access to an all-in-one platform that seamlessly integrates hotels, flights, events, and everything in between. Our app utilizes cutting-edge technology to offer personalized trip planning, real-time travel updates, and local insights, all in a single, user-friendly interface. As the travel industry evolves, “DestiGo” aims to be the ultimate companion for travelers, simplifying the booking process and enhancing the travel experience, whether for leisure or business. Travel with ease, all in one place—Travel with “DestiGo”.

**Personas and User Stories:*****Persona: Alex Martinez by Nav*****Background:**

Alex Martinez is a 35-year-old professional working in the marketing field. They are married with two young children and live in a suburban home.

**Personality:**

Alex is tech-savvy and always on the lookout for efficient solutions. They value family time and work-life balance. Alex enjoys outdoor activities and exploring new places with their family. Alex has a stable income and manages finances carefully. They use a credit card for most transactions but prefer digital banking for convenience.

**Top Interests and Motivations:**

Alex is passionate about travel and enjoys planning family vacations. They look for ways to simplify tasks to spend more quality time with their family. Staying updated with the latest technology trends is important to them.

**Pain Points:**

Alex finds it time-consuming to research and book flights for family trips. They want a hassle-free way to manage finances and prefer digital banking. Balancing work, family, and personal interests can be challenging.

**Persona: Daisy Turner by Faheemah**

**Background:** Born and raised in California, Daisy is a 3rd-year student at San Francisco State majoring in journalism. She enjoys writing, photography, outdoor adventures, and cultural exploration. She is comfortable with smartphones, social media, and various travel-related apps.

**Personality:** Daisy is always eager to explore new places, cultures, and experiences. She enjoys stepping out of her comfort zone and trying new things. She has a keen interest in learning about different cultures, traditions, and people. As a journalism major, Daisy is a talented writer and photographer. She sees travel as an opportunity to tell compelling stories and capture beautiful moments.

**Top Interests and Motivations:** As a college student, Daisy is budget-conscious. She looks for affordable travel options, discounts, and deals. She prioritizes her safety when traveling so she needs reliable information about the safety of destinations and access to emergency contacts and resources. She often travels to remote areas with limited connectivity, so she requires an app that offers offline access to maps, guides, and important travel documents. She takes pleasure in participating in cultural events to gain a deeper understanding of the local culture in the area. She values recommendations from locals and experienced travelers to discover hidden gems, authentic restaurants, and cultural events.

**Pain Points:** Daisy finds the booking process for accommodations and transportation confusing and time-consuming, especially when trying to find the best budget-friendly deals. She worries about her safety in unfamiliar places and needs reliable information to ease her concerns. Poor internet access in some destinations hinders her ability to access essential travel information when needed. She's frustrated by tourist traps and generic travel recommendations. She wants to experience the local culture and avoid tourist clichés.

***Persona: Bradley Holder by Ryan***

**Background:** Bradley Holder is 66 years old and lives in England with his wife Ella Holder. He recently retired as an accountant working for Shell. Nowadays he spends his time going on walks and watching tv.

**Personality:** Bradley is social and hardworking. He believes in the importance of having connections with other people. He wants to stay healthy by moving around and staying active. He knows the basics of technology from his job and finds technology really helpful.

**Top Interests and Motivations:** Bradley has saved up a lot of money which he plans to use for traveling with his wife and friends. There are plenty of people who he wants to visit in other countries before he passes away. He wants to plan multiple trips to those places and see what their life is like there.

**Pain Points:**

- Bradley is very bad at remembering things now that he is old, so he needs something that can help him plan and keep track of his flights, hotels, and activities.
- Bradley may have a lot of money, but he does not know where to spend it. He is looking for tips, guides, deals, or events that are the best experiences that are right for him.
- Bradley's currency is in pounds, but most of the places he wants to visit don't use pounds. He would need something that could easily convert everything to pounds so he can handle his budget correctly. This could apply to language barriers as well. The reviews on different countries will have reviews and guides that are in different languages.
- Bradley, being old, does not want to spend time outside when it is too hot or too cold and especially when there is rain. He will not remember to consider the weather when planning his trip, so he would need something to warn him that it would not be suitable weather before he books his flight.
- Bradley plans to include his wife and his friends, but he has no easy way to share his plans with them.

**Data Definitions:****- Main Terms:**

1. **Start/ End Destination** - This would be where the user is traveling from and to for flight information. This would include the flight number and the airport names. The destination would be used for all the other functions of the application.
2. **Distance** - This is the distance and estimated time to travel from every point of interest from application functions.
3. **User** - This will hold all data concerning a user including name, phone number, email address, and friends list. (can add more to this later) This data will be used to link an itinerary and save it. It will also provide the necessary information needed to book flights, hotels, and events.
4. **Events** - These are the different points of interest in a certain location. There would be a summary of each point and what makes it a place the user should consider going to.
5. **Blog** - These are user generated insights to each point of interest. They include just the name of the user and a text entry of their thoughts regarding each point. Other users are able to respond with their name and a text entry.
6. **Currency** - This would be the cost of the functions that require a payment. The cost could also be changed to different currencies.

**- Data Structures:**

1. **User** - Username, Password, avatar, Friends
2. **Trip plan** - Flights, Hotel, Events, Weather
  - a. Flights - Destination, Arrival, Times, Airport, Airline
  - b. Hotel - cost, beds, name, address, city
  - c. Events - cost, time, address, name, description, genre
  - d. Weather - weather, location, time
3. **Money**
4. **Distance**
5. **Blog Post** - username, user posts

**List of Functional Requirements:**

Feature	Description	Priority
<b>Log In/ Sign Up</b>	Users should be able to create accounts on the application.	<b>5</b>
<b>Flights</b>	Users would have access to real time flight information for planning trips. This function would be of <b>high priority</b> because the application is centered around trip planning and getting to the destination.	<b>5</b>
<b>Hotels</b>	The application would also provide hotel information close to the trip destination. This is a <b>high priority</b> function because the user would need lodging for a trip.	<b>5</b>
<b>Events</b>	The application would provide users with various points of interest around the destination. This feature is <b>high priority</b> because users would be able to see the reasons a trip to a certain destination would be in their interests.	<b>4</b>
<b>Sharing Itinerary</b>	Users would be able to add and remove other users to their itineraries if they are traveling in groups. This function is secondary to the above ( <b>High Priority</b> ) but necessary in order to be able to edit and see friends' itineraries when planning a group trip.	<b>4</b>
<b>Blog</b>	The application will have a blog where the company will regularly post content related to Destination Spotlights, Travel Stories, Tips & Guides, Promotions/Deals, etc. <b>Medium priority.</b>	<b>3</b>
<b>Currency</b>	They would have access to see the current exchange rates of their currency with the local currency at their destination. This helps users in	<b>3</b>

	budgeting their trips and helping them get most out of the trip. <b>Medium priority.</b>	
<b>Weather Updates</b>	Include real-time weather forecasts for the user's destination, helping travelers pack appropriately and plan outdoor activities accordingly. <b>Medium priority.</b>	<b>3</b>
<b>Language Translation</b>	Users will have an option to change the app language. We want to implement this feature, but it is <b>low priority.</b>	<b>2</b>

**List of Non-Functional Requirements:**

1. Cross-browser Compatibility. (Chrome, Mozilla Firefox, Safari, etc.)
2. Works on both desktop and mobile. (Responsive with different screen sizes)
3. All Data is stored on the team's MongoDB Atlas database.
4. Modern & clean UI, easy to use application.
5. The code is stored in team's github repository and must be well-maintained and is guaranteed to work at any time.
6. Everyone is required to make pull requests and get them approved before their changes are merged to make sure there's no problems with *master*.
7. SSL Certificate (Encryption) must be there to ensure security for the users.

**Competitive Analysis:**

Feature	TripAdvisor	Booking.com	Yelp	"DestiGo"
Offline Map Access	Yes	No	No	Yes
Safety and Emergency Info	No	No	No	Yes
Local Insights	Yes	No	Yes	Yes
Traveler Communities	No	No	No	Yes
Language Learning Integration	No	No	No	Yes
Travel Journals	No	No	No	Yes

"DestiGo" stands out in the competitive travel app market by offering a robust array of innovative features that cater to every facet of travel. Its exceptional provision of offline map access ensures users can navigate seamlessly even in areas with limited connectivity. In addition, "DestiGo" goes the extra mile to prioritize traveler safety and preparedness with its inclusion of comprehensive safety and emergency information. Beyond this, "DestiGo" enhances the travel experience by enabling users to uncover authentic experiences and hidden gems while also simplifying the process of documenting and sharing journeys through interactive digital travel journals. By incorporating language learning modules, "DestiGo" enriches cultural experiences and facilitates better communication for travelers. Furthermore, "DestiGo" fosters social connections among users through the introduction of traveler communities, encouraging the sharing of experiences and collaborative trip planning. These unique features collectively establish "DestiGo" as a well-rounded, user-centric travel app, offering an immersive, social, and educational travel experience that sets it apart from established competitors.



## High-Level System Requirements:

Server/Platform Provider	Vercel
Back-End	JavaScript/Node
Database	MongoDB
Web App Framework	Express
Front-end	React
Web server	Caddy
State Management	Redux Toolkit
Compiler/IDE	Visual Studio Code

## The Team:

Name	Role
Sahej Tuli	Team Lead
Ray Dela Cruz	Front-End Lead
Jessica Christine Rosero	Back-End Lead
Navjot Singh	Git Master
Faheemah Shaikh	Scrum Master
Ryan Tong	Full-Stack Developer

## Detailed Study Plan:

Sahej Tuli (Team Lead)	<p>In the coming month, I'll be learning:</p> <ul style="list-style-type: none"> <li>• How to Implement user authentication using technologies like Passport.js or JWT.</li> <li>• About middleware, routing, and error handling in Express.js</li> <li>• Understand MongoDB's data modeling, collections, and documents</li> <li>• How to Fetch data from APIs and display it in our React app.</li> <li>• State management with Redux or context API</li> </ul>
Ray Dela Cruz (Front-end Lead)	<ul style="list-style-type: none"> <li>• I'm going to dissect my old projects and practice with little projects to strengthen my JS and React fundamentals and build on them.</li> <li>• I'm also going to get some practice with MongoDB and make a</li> </ul>

	<p>database that I can use with express.</p> <ul style="list-style-type: none"> <li>• I'm also going to read up on using Vercel and Caddy.</li> <li>• I will continue practicing different features on the back end and front end.</li> <li>• I will practice having them communicate with each other.</li> </ul>
<b>Jessica Christine Rosero</b> <b>(Back-end Lead)</b>	<ul style="list-style-type: none"> <li>• Will be taking notes and researching Vercel, MongoDB, Express, and Caddy on a weekly basis using YouTube and StackOverflow as my main sources</li> <li>• Will also be doing side tests/mini projects to test my skills so that I can properly apply them to this project</li> <li>• Will be going over and expanding my current knowledge of JS/Node and React in side projects as well.</li> <li>• Have started reviewing previous JS/Node projects</li> <li>• Starting to watch videos and gain familiarity with MongoDB, Vercel, and Express</li> </ul>
<b>Navjot Singh</b> <b>(Git Master)</b>	<ul style="list-style-type: none"> <li>• Will research and get myself familiar with how vercel server works.</li> <li>• Did some work on understanding the way react and mongodb connects.</li> <li>• Work on fixing my JS and Node skills to better design the tasks at hand.</li> <li>• Research website inspiration, third-party integrations, and web development trends.</li> <li>• Regularly practice coding through projects and collaborations.</li> </ul>
<b>Faheemah Shaikh</b> <b>(Scrum Master)</b>	<ul style="list-style-type: none"> <li>• I am not familiar with Vercel, Express, and Caddy so I will watch YouTube tutorials related to them to understand them better</li> <li>• I will use my previous assignments from previous CS classes to review React, JS, and MongoDB</li> <li>• I will refer to StackOverflow and other coding help websites</li> <li>• I will create a study group where we will meet off campus to go over our weak points.</li> <li>• I will practice using Vercel, Express, and Caddy to get familiar with it.</li> </ul>
<b>Ryan Tong</b> <b>(Full-Stack Developer)</b>	<ul style="list-style-type: none"> <li>• I have a bunch of csc 317 and 413 recordings and projects that I will review to refresh my understanding of JS/Node, MongoDB, React.</li> <li>• Vercel, Express, and Caddy I will have to find online and research.</li> <li>• Practice and experimenting is the thing that will take the most time for me to do.</li> <li>• I am recreating some assignments in csc 317 and trying to use the tools we are using for this project.</li> </ul>

**Checklist:**

Task	Status
Find a time slot for meeting outside of class	Done
Scrum Master shares meeting times	Done
Git Master is chosen	Done
Ensured local development setup for everyone	Done
Confirm readiness for back/front-end frameworks	Done
❖ Assign leaders for framework	Team lead and Back-end lead
❖ Specific goal for 1 month	Everyone researches the front/back-end technologies that are being used.

**Team lead ensures that all members have read and understood this document.**

Yes, 09/27/2023  
- Sahej Tuli