

Jack of All Travel

Milestone 0 Report

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<https://github.com/CMPT-276-SPRING-2025/final-project-16-moons>

Project Overview

Traveling to somewhere new can often be overwhelming; planning activities, booking flights and accommodation, finding places to eat, checking the weather and managing budgets can make you feel in over your head. Instead of relying on multiple websites and apps to gather info, Jack of All Travel simplifies the process by providing a one stop web app that offers all important features any traveller may need.

The idea came from poor experiences that made travelling an exhausting experience before even arriving at the location. Switching between different apps and sites relying on real-time info can be inefficient, ineffective and can result in a reluctance towards travelling in general. Casual tourists, budget travellers, and corporate workers should all be able to accommodate their respective needs. Whether their needs range from planning their visits to popular tourist sites, cheap travel options and real-time weather updates, or quick places to eat and navigation around town. Jack of All Travel serves to address these needs by providing live travel recommendations combined with calendar functionality to make scheduling easy, showing local eateries, live forecasts and presenting quick recommendations and directions for those in a hurry.

Personas

User Group 1: Casual User

Name & Age: Sarah, 28

Occupation: Personal Trainer

Goals:

- Wants a convenient way to schedule workouts throughout her vacation.
- Wants a convenient way to search for diet-friendly dining options.
- Prefers to visit attractions within walkable distance of where she's staying; needs to be aware of upcoming weather conditions.

Frustrations:

- Accomplishing her goals would require using multiple applications/methods.
- No way of seeing all the information and what she has planned at a glance.

Needs:

- An application that displays the most important information at a glance.
- A method of searching for restaurants and nearby attractions.
- A customizable calendar.

User Group 2: Budget Traveller

Name & Age: John, 20

Occupation: Student

Goals:

- Wants to plan a summer vacation on a budget for him and his friends.

- Needs a way for him and his friends to collaborate on their planning.
- Wants a convenient way to notify his friends of changes he makes to the itinerary.

Frustrations:

- Searching for hotels requires visiting multiple websites; becomes difficult to keep track of options.
- Inconvenient to create an agenda with friends over text.

Needs:

- A way of planning a vacation where details are shared with friends.
- Something that notifies all parties involved of changes made in the agenda.
- An easy way of finding fun things to do on vacation with friends.
- The ability to search for affordable lodgings/dining options.

User Group 3: Corporate Worker

Name & Age: Jane, 32

Occupation: IT Consultant

Goals:

- Wants to be able to find nearby attractions she can visit while on a strict schedule when traveling for work.
- Frequently needs to transit around the cities she's staying in; needs to be able to find bus stops and plan around commute times.

Frustrations:

- Dislikes having to switch between multiple applications to check her itinerary and find bus routes/travel time estimates.
- Finds it difficult having to keep searching up how to navigate to places in foreign cities.

Needs:

- A way to conveniently save locations that she plans on visiting.
- An application that consolidates her itinerary and transit planning.
- The ability to quickly search for nearby attractions and add them to a schedule.

APIs

- Google calendar (<https://developers.google.com/calendar>)
 - Adds calendar functionality. Its key features are event and calendar management, reminders, and synchronization.
- Google maps (<https://developers.google.com/maps/>)
 - Adds map functionality. Its key features allow users to plan routes with navigation, and get estimated times for routes.
- Trip Advisor (<https://developer-tripadvisor.com/home/>) - Backup
 - Adds travel data. Its key features allow users to see reviews and ranking for hotels, and restaurants.
- TicketMaster (<https://developer.ticketmaster.com/>) - Backup

- Adds event and venue information. Allows users to search for events and attractions at specific locations or venues, and see if tickets are in stock.

Features

Google Calendar

- Notifications: the user can choose to be notified of upcoming events.
- Share calendar with friends: the user can share their calendar and work on it with collaborators.
- Add locations/bus routes to calendar: the user is easily able to add locations/bus routes they're searching up to their calendar. Information like addresses/ETAs are easily accessible from the calendar.

Google Maps

- Flight and transit information: The user will be able to search for flights, buses, and driving/walking routes to and from their chosen destination, viewing time of departure, arrival, and cost where relevant.
- Hotel search: The user can look up accommodation options for the city and areas they plan to travel to, comparing price and ratings.
- Recommended restaurants and grocery stores: Based on where the user is staying, they will be able to view nearby restaurants and grocery stores where they can purchase food during their stay.

Tripadvisor - Backup

- Nearby location search: users can find up to 10 nearby locations based on different categories that they can choose to search for.
- User reviews: most recent TripAdvisor reviews for specific locations will be shown to help users make decisions.
- Photos: multiple images are shown upon a user search for specific locations.

TicketMaster - Backup

- Recommend events: the user is recommended events occurring during their travel dates at their travel destination
- Event search: the user can search for events happening at their travel destination
- Buy tickets: the user can buy tickets for events. If a ticket is bought the event is automatically added to the calendar.

User Stories

Google Calendar

Notifications - casual user

As a personal trainer, being active and minimizing screen time is important to me. I'd like to be notified of scheduled events so I can see what's up next at a glance.

Share calendar with friends - budget traveller

As a student on a budget, I need a method of scheduling that is collaborative and shares information with the friends I'm splitting travel costs with.

Add locations/bus routes to calendar - corporate worker

As someone travelling for work, I need a convenient way to keep track of routes and departure times so I can make it to my appointments on time.

Google Maps

Flight and transit information - corporate worker

As someone who follows a strict itinerary, I want to be able to look up accurate travel times and plan my routes ahead of time to arrive at work events punctually.

Hotel Search - casual user

As a personal trainer, I want to be able to find a hotel that includes gym access and is within walking distance of many attractions in order to keep up with my daily exercise requirements.

Recommended restaurants and grocery stores - budget traveller

As a cost-conscious student, I want to be able to find grocery stores near my accommodations so that I can make my own meals and save on the cost of dining out.

Tripadvisor - Backup

Nearby location search - casual user

As a health oriented person, I want to find attractions within walking distance so that I can combine tourism with my activity goals.

User reviews - budget traveller

As a person with a limited budget, I want to read reviews for restaurants so that I am maximizing my budget by visiting affordable good quality restaurants.

Photos - corporate worker

As a business traveller, I want to be able to see photos of the places before visiting so that I can decide if something is worth my limited amount of free time.

TicketMaster - Backup

Recommend Events - budget traveller

As a person who's planning a vacation with friends, I want to know about events happening where I'm going ahead of time, so I can budget for them ahead of time and enjoy the vacation.

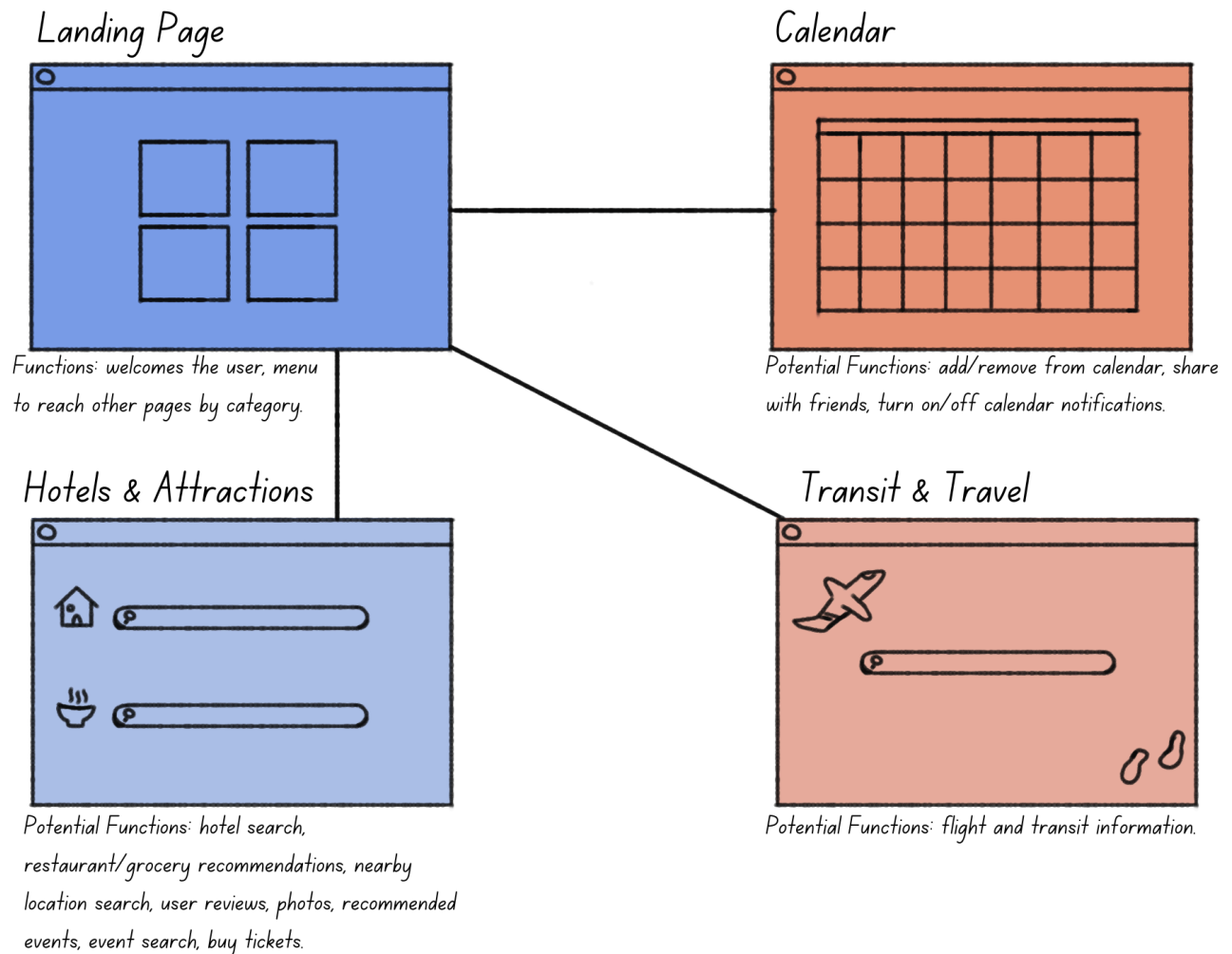
Event search - corporate worker

As a person with a strict schedule, I want to search for events near where I'm staying so I don't need to worry about the transit.

Buy tickets - casual user

As a person who likes convenience, I want my tickets to be where my schedule is so I don't lose track of my tickets and forget about the event.

Storyboard



Tech Stack

The tech stack we have chosen includes HTML, CSS and React.js. The reason we chose these is because it is simple and beginner friendly while allowing us to create an interactive web app that expands our knowledge and establishes a solid foundational understanding for future projects. Even though we are using a web app framework, HTML will be important for understanding the basic structuring of the page when it's used as part of React components which will allow us to create interactive elements for users, and CSS will give us styling capabilities to make our app user friendly.