

Globetrotter Travel Assistant

Milestone 1

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Revision History

Version	Date	Notes
M1V2	07/08/22	
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Executive Summary

Motivation

Travel has become more convenient for the average person in recent decades. Services like Uber and Lyft have allowed travelers to summon a taxi just about anywhere, OpenTable has made it easier to find a table at a restaurant without calling around, and apps from the major airlines have made it possible to book a plane ticket from a smartphone or computer. The result is that a traveler may choose either plan their travel reservations months, hours, or even minutes before they need them.

For the extended trip though, one that is planned farther into the future, organizing these reservations can be tricky. A multi-week trip may have four or five hotel bookings, several restaurant reservations, and multiple Uber rides each day. Traditionally, a travel agent would fill this role, making the arrangements in advance and preparing an itinerary for the traveler. However, hiring a travel agent today is still cost prohibitive for the average traveler. Many, if not most, would benefit from an affordable online service that lets them book and organize their travel reservations in one place.

How it works

Our plan with *Globetrotter* is to create a user interface for planning, booking, and organizing travel arrangements. This interface will be centered around a visual schedule in which users can insert their destinations, dates of stay, and services for which they will make reservations. With this strategy, the user will be able to see their entire trip chronologically making them feel confident and organized.

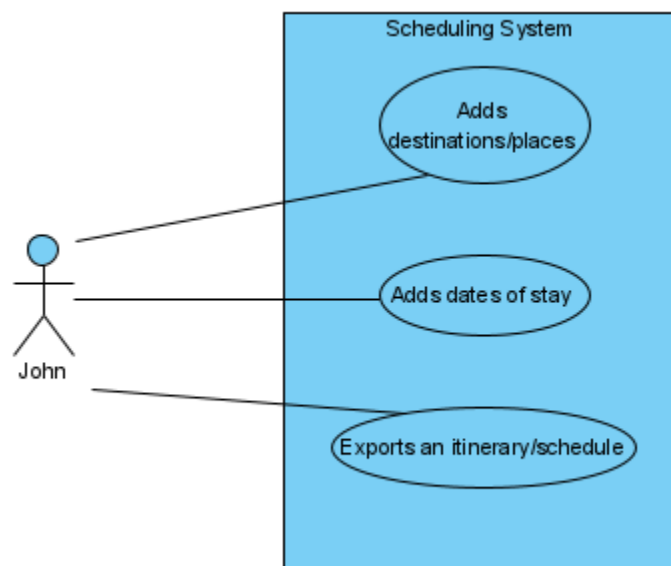
In addition to the improved user interface, Globetrotter will also be feature-rich. Many of the previously mentioned services (such as Uber and OpenTable) provide APIs which make them easy for developers to integrate with. Globetrotter will be designed such that it is easy to provide integrations for more third-party services over time.

Business Plan

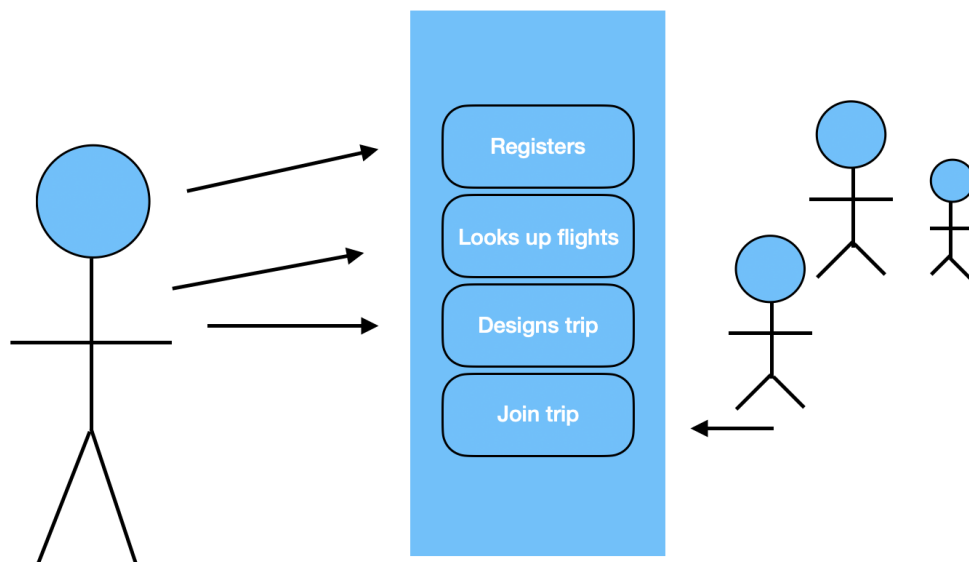
The business plan for Globetrotter will use a mixture of enticing users with free features and charging for other features. This is used in many software applications to create a base of consistent users of the system. Some users will only use the system for the free features. Eventually, though, many of them are willing to pay for the ones that enhance the experience of using the application. By selling features a la carte, the user remains in control of paying only for the features they use. However, we would also add on the ability to purchase a full-featured subscription for users that wish to have access to all the features. This would be priced higher than two or three features on their own but less than the price of all the features combined.

Use Cases

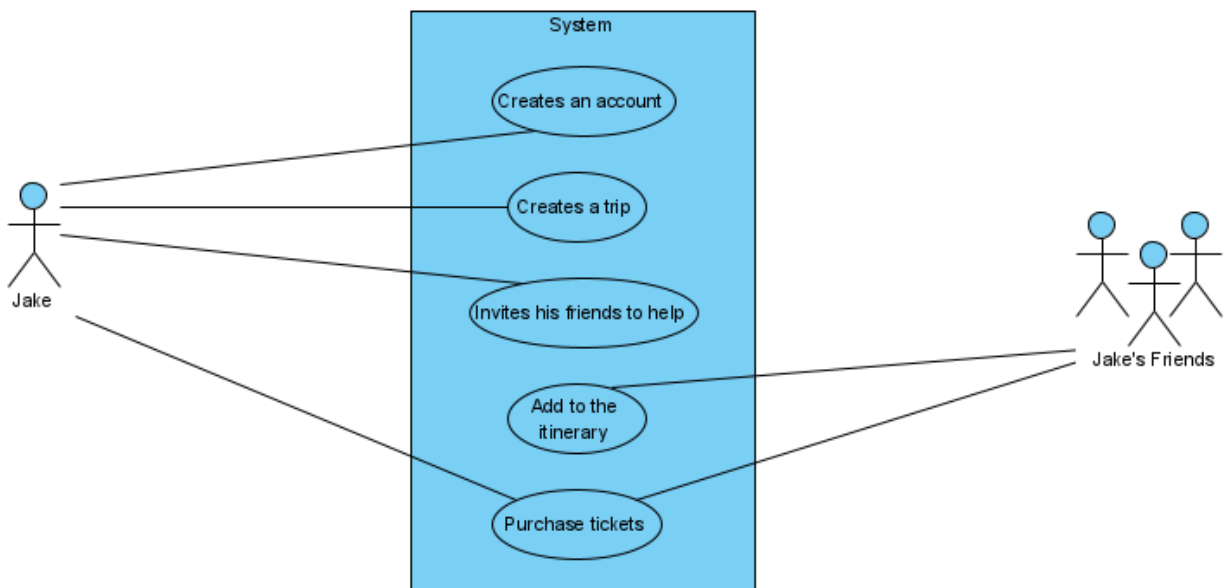
Title:	Planning a Vacation Schedule
Actors:	John
Description:	<p>John is planning a vacation to Northern California for his family of four. They plan to fly from Los Angeles to San Jose on the morning of July 1 and visit the Intel Museum. After staying overnight in San Jose, they would like to check out San Francisco State University because the oldest child is considering attending there for school. They would like to stay somewhere close to the school for one night. On the third day, the family would like to visit the Golden Gate Bridge and also see a Warriors basketball game at Oracle Park.</p> <p>Since this is a trip spanning multiple days and including multiple people, John wants to stay organized with all the services he needs to use. He needs one application to plan the trip's schedule, and make each day's reservations for hotels, restaurants, etc. In searching for an online trip planning service, though, he finds that many of them have only some of the features that he wants. However, when he finds the Globetrotter website, John is surprised to find that he can create a schedule, add activities to each day, and export the whole trip as a printable itinerary.</p>



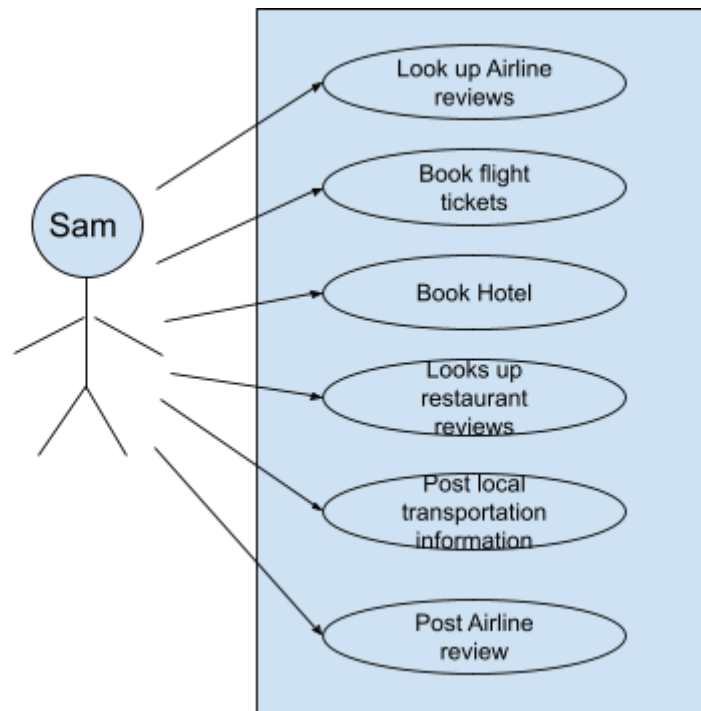
Title:	Transportation
Actors:	Steve Miller and schoolmates
Description:	<p>Steve and his friends have decided to take a trip out of the state to celebrate one of their friends' new promotions. They decided to fly to their destination because Steve does not want to put too many miles on his new car very quickly. Since none of his friends had any vehicles too reliable for long drives, Uber is too expensive to use multiple times a day, they were immediately presented with the dilemma of transportation once they arrived at their destination. During the process of purchasing the flight tickets on Globetrotter, they noticed that they had the option to look at some rental vehicles. They were able to find a vehicle that they all fit in and was very gas efficient. After they returned the car they were happy to have been able to find a car they could use for transportation on the same website where they bought the flight tickets.</p>



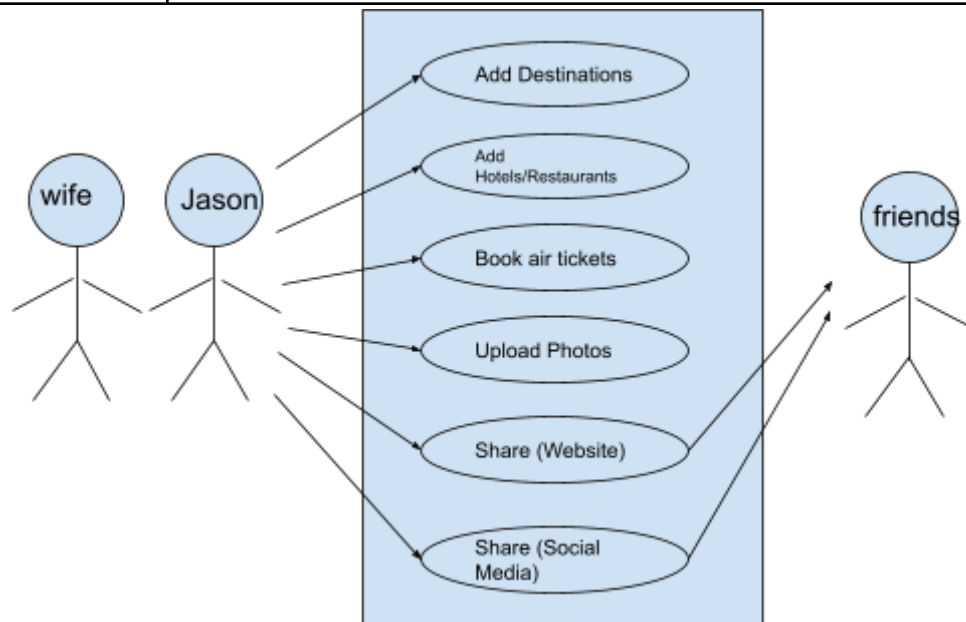
Title:	Inviting Guests On Trips
Actors:	Jake and his friends
Description:	<p>Jake and his friends decided to take a trip out of state now that the country is beginning to open back up and they are all on summer vacation. Jake and his friends are having a hard time finding a time and place for all of them to meet and discuss the details of the trip. Jake begins to look for flight booking websites and eventually ends up on Globetrotter. He was easily able to create an account and save some trips that he created. Jake then realizes that he is able to invite guests to the trip he has created and invites his friends through Globetrotter. His friends can now easily look at the details of the trip at their earliest convenience and give input accordingly. Jake's friends then make their own additions to the trip. Once all the details of the trip have been agreed on, he purchases the flight. Through the Globetrotter website, Jake and his friends were able to create a trip without having to meet in person. They just showed up at the airport the day of and flew to their destination. On the way, they discussed how easy it was for them to plan the trip. A few days later, Jake and his friends make it home safe and are happy that they have created memories together that they will remember for years to come.</p>



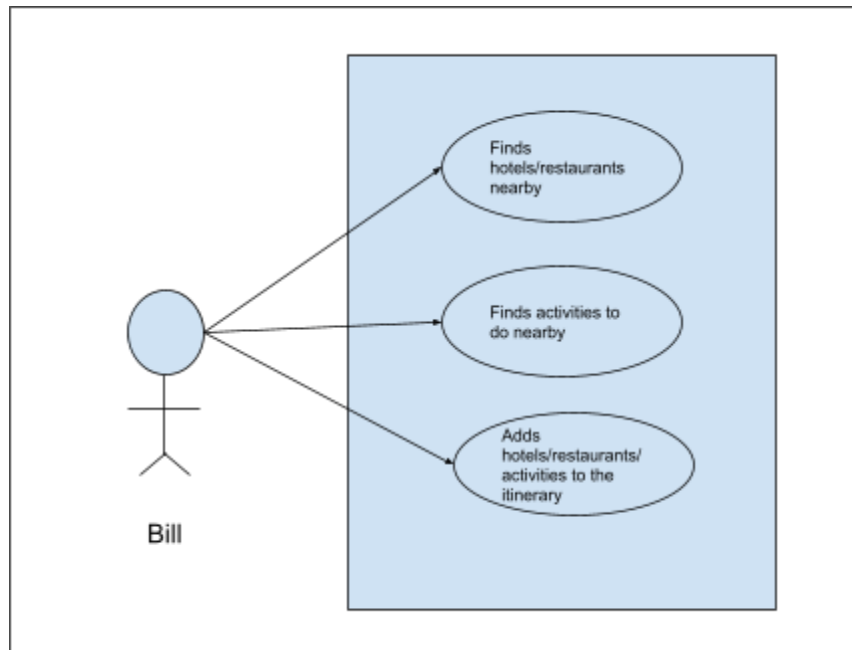
Title:	Business Meeting
Actors:	Sam
Description:	<p>Sam has a business meeting in New York City that just came up and is planning on taking a last-minute 2-way flight from Los Angeles. Sam does not want to have a bad experience because they don't want bad emotions during the meeting so she decides to look up Airline reviews before purchasing. Sam then books a hotel that is near the airport. Sam does not have a lot of time to make it to the meeting. On the way to the airport, she plans on going to a fast-food restaurant. While on the plane, Sam is looking at nice restaurants to consider where the meeting should take place so she decides to look up restaurant reviews. Sam then adds Uber as a method of transportation to her In-Progress trips, for her travel within the city. Once Sam has arrived at JFK airport in NYC, she gets an Uber to take her to the restaurant where the meeting is held. After the meeting is finished, she takes another Uber to her hotel where she will rest until her flight back to Los Angeles. Sam takes an Uber to the JFK airport and takes her flight back home happy to have had a great meeting. After everything went smoothly, Sam decided to add a positive review to the Airline.</p>



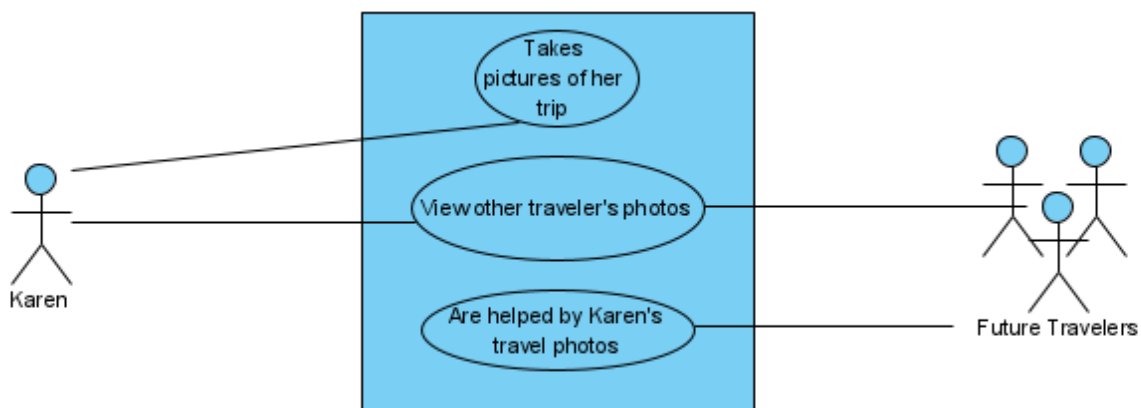
Title:	Social Media
Actors:	Jason, his wife and his friends
Description:	<p>Jason, who lives in Los Angeles, and his newly married wife plan to spend an unforgettable honeymoon in Hawaii. Jason is a busy photographer, they only have 7 days, so they choose to play only on Oahu. They plan to fly from Los Angeles International Airport to Honolulu International Airport at noon on the first day. After check-in, they hope to book a Japanese restaurant for dinner near the hotel in advance. On the way, they plan to go to Waikiki Beach to sunbathe, watch the seaside scenery, visit the Macap Point Lighthouse, enjoy the scenery and take pictures, and go sightseeing in the historic pineapple plantation Dole Plantation. In the next few days, they hope to experience skydiving, experience shooting dolphins and whales by boat. Finally, they will take the return flight back to Los Angeles. Because of Jason's personal habits, he will take a lot of photos on the road. He hopes to not only share his itinerary and photos taken by himself on the website, but also let his friends see his itinerary on Instagram.</p>



Title:	Activity Itinerary
Actors:	Bill
Description:	<p>Bill is planning a Business trip to Tucson, Arizona. He has an exhibition he has to attend for 3 days there. After figuring out the dates of the exhibition, he wants to plan out his itinerary. He plans to fly there a day before it starts and fly back the day after it ends, concluding he needs to plan a trip for 5 days and 4 nights. He decides to book a hotel within 10 miles of his exhibition hall so travel time will not be an issue. He plans to meet his fellow exhibitors on the day he arrives and they have given him the tasks to find activities to do there and restaurants to go eat at.</p> <p>He decides to plan out an itinerary on Globetrotter, which allows him to search for activities to do nearby and make hotel/restaurant reservations so he can stay organized and to make sure he is utilizing his free time with his fellow exhibitors and gets to do as many activities as possible before work starts.</p>



Title:	Photo Gallery
Actors:	Karen, Future Travelers
Description:	<p>Aspiring food blogger, Karen, loves to travel often by herself. Her most recent trip included flying from San Francisco to New York City, with a layover in Denver in between. While traveling, she keeps track of her adventures by taking pictures of almost everything she does and eats. With the layover in Denver, Karen actually did not know what to do with her time there since she was not expecting to be there in the first place. She takes a risk and tries a local restaurant for lunch. Karen finds a bug in her food and is also met with horrible customer service, so this meal was probably the worst of her whole trip. She documents the unpleasant meal but has no one to share this warning with besides herself.</p> <p>Karen needs a way to share her knowledge and experience with others, while also learning from other people's experiences as well. With a photo gallery, people can share fun finds and things to avoid while traveling to areas you have never been before! Karen can post her fun pictures at the Statue of Liberty, hidden restaurant gems she finds, and the rude bug-serving restaurant so others can make judgements for their own future travels.</p>



Application Entities

Roles

- Unregistered User - A user who has not registered an account with Globetrotter. All users begin with this role.
- Registered User - A user who has registered an account with Globetrotter.
- Unregistered Guest - Someone who has been added to a trip but has not registered with Globetrotter.
- Registered Guest - Someone who has been added to a trip that already has a Globetrotter account.
- Owner - A registered user who has created a trip

Trips

A set of unconnected dates with locations.

Trip Day

Each day added to a trip has a location, a date, and activities.

Flights

Flights that the user has taken.

Airports

Origins and destinations of flights

Photo

Users are allowed to add photos to a Photo Album.

Photo Album

Functional Requirements

Account Management

1. General users can contact the team.
2. Registered users can access the 'Account Management' page.
3. Registered users can change their username.
4. Registered users can change their email.
5. Registered users can change their preferred currency.
6. Registered users can change their home address.
7. Registered users can change their primary phone number linked to their account.
8. Registered users can upload a profile picture.
9. Registered users can change their profile picture.
10. Registered users can change their primary phone number.
11. Registered users can change their secondary phone number.
12. Registered users can change their password.
13. All registered guests may add other registered users to the trip.
14. All registered guests may add unregistered guests to the trip.
15. All registered guests can only add up to one registered user at a time.
16. All registered guests can only add up to nine registered users to the trip.
17. All guests added to the trip will be sent an email containing a link to the trip.
18. All users can search for flights.
19. All users may add hotel reservations to a particular day of a trip.
20. All users may add entertainment activities to a particular day of a trip.
21. All users may add transportation reservations to a particular day of a trip.
22. All users can choose from the available flights.
23. All users will be able to view arrival times for the available flights.
24. All users can look at reviews of Airlines.
25. Adding a confirmation number to a trip in the Shopping Cart moves the trip to Purchased.
26. All registered users may add a confirmation number to a trip in their Shopping Cart.
27. Unregistered guests may not purchase trips on which they are guests.
28. Registered guests may purchase trips on which they are guests.
29. Registered guests will receive a confirmation email after checkout.
30. Registered users may purchase their 'Shopping Cart' trips.
31. Registered users will receive a confirmation email after checkout.
32. Registered users can login using the 'Login' page.
33. 'Login' page will have a 'forgot password?' button.
34. Registered users can reset their password from the 'Login' page by sending a reset link to the account's email.
35. Unregistered users may choose to continue as an unregistered user.
36. Unregistered users may choose to go to the 'Registration' page.

37. All users shall be able to access the "Meet the Team" page to find out more information about the team.
38. General users will be able to click on individual team images to find out more information about the specific member.
39. All users shall be able to access the "Meet the Team" page.
40. Registered users can edit their reviews.
41. Registered users can delete their reviews.
42. Registered users may cancel flights which they purchased.
43. Registered users can be issued a refund for flights cancelled within 48 hours of departure.
44. Registered users can receive credit for flights cancelled within 48 hours of departure.
45. Registered users can post a review of their flight.
46. Unregistered users shall be directed to the 'Registration' page.
47. Unregistered users will be able to create an account.
48. Unregistered users shall choose a username when creating an account.
49. Unregistered users shall choose a password when creating an account.
50. Unregistered users shall provide their email when creating an account.
51. Unregistered users can specify a preferred currency for displaying prices when creating an account.
52. Unregistered users can record their home address when creating an account.
53. Unregistered users shall add a primary phone number.
54. Unregistered users can add a secondary phone number.
55. Users will be sent a confirmation email after completing registration.
56. All users can change the displayed currency.
57. All Registered Users can specify a return date
58. All registered users can add at least one destination.
59. All registered users can add multiple flight stops in between the start and destination locations (waypoints).
60. All registered users can edit the starting location of a trip.
61. All registered users can remove waypoints.
62. All registered users can change the starting location of a trip.
63. All registered users can change the destination of a trip.
64. All registered users can remove the destination of a trip.
65. All registered users shall specify the dates of departure.
66. All registered users can remove the starting location of a trip.
67. All registered guests can add multiple flight stops in between the start and destination locations (waypoints).
68. All registered guests can add multiple flight stops in between the start and destination locations.
69. All registered guests can edit the starting location of a trip.
70. All registered guests can remove waypoints.
71. All registered guests can change the starting location of a trip.
72. All registered guests can change the destination of a trip.
73. All registered guests can remove the starting location of a trip.

- 74. All registered guests can remove the destination of a trip.
- 75. All registered guests shall specify the dates of departure.
- 76. All registered guests can add guests to the trip.
- 77. All registered guests can add at least one starting location.
- 78. The displayed currency will default to the preferred currency of a logged in user.
- 79. All users shall specify a budget.
- 80. All users will be able to view weather information for each location.
- 81. Registered users can navigate to the 'Account Management' page.
- 82. Dates added to a trip may not overlap.
- 83. Registered users may view trips that they previously created.
- 84. Registered users may edit trips that they previously created.
- 85. Registered users may delete trips that they previously created.

Photo Album

- 86. Registered users may upload pictures of their trip.
- 87. Registered users may delete pictures they uploaded.
- 88. Registered users may add a photo description when uploading a picture.
- 89. Registered users may edit their photo descriptions.
- 90. Registered users may change titles of pictures they uploaded.
- 91. Registered users may delete their photo descriptions.
- 92. Registered users shall give a title when uploading a picture.
- 93. Users may export the schedule prepared by Globetrotter to a file.
- 94. Users may print the schedule prepared by Globetrotter.

Guests

- 95. Registered users may edit trips to which they were added as a guest.
- 96. Registered users may edit trips on which they are guests.
- 97. Registered users may view trips to which they were added as a passenger.
- 98. Unregistered users may not edit trips on which they are guests.
- 99. Any changes of the trip will be auto saved.
- 100. All guests may view trips on which they are guests.

Website

- 101. Website will notify the user of redirection to external websites.
- 102. The website will let the user know when they are hovering a clickable item.
- 103. The website will have a hover effect on clickable items.
- 104. The website will be easy to maneuver through.

Non-functional Requirements

Functionality

1. The website shall be hosted on SSD Nodes.
2. The website shall be user friendly.
3. The website shall be easy to navigate.

Security

4. Website will use https wherever possible.
5. User login credentials will be validated against the user database.
6. Changes to access controls in the database will be reflected immediately in the user interface.
7. The user's passwords will be encrypted in the database.
8. User passwords will be case sensitive.
9. User passwords shall have at least 8 characters.
10. User passwords shall have at least one upper case letter.
11. User passwords shall have at least one special character.
12. The website will use sessions to track logged in users.

System Requirements

13. The website shall function on at least version 91.0.4472.101 of Google Chrome.
14. The website shall function on at least version 91.0.864.48 of Microsoft Edge.
15. The website shall function on at least version 14.1 of Apple Safari.
16. The website shall function on at least version 89.0.1 of Mozilla Firefox.

Marketing

17. The website shall use the company logo displayed.
18. The website shall have a link to the company's Instagram profile on each page.
19. The website shall have a link to the company's Facebook profile on each page.
20. The website shall have a link to the company's Twitter profile on each page.
21. The company shall have engaging content.

Content

22. The website shall have a navigation bar.
23. The website shall have a clear description of its functionality.
24. The website shall have a consistency of its design on every page.
25. The website shall have a destination search entry to search for flights.
26. The flights returned from API will match parameters entered by the user.

- 27. The website shall have a from location search entry to search for flights.
- 28. The website shall have a date of flight search entry to search for flights.
- 29. The website shall have a drag bar for air ticket budgets.
- 30. The website shall be able to convert currencies.

Coding Standards

- 31. The code will be portable.
- 32. The code will have a consistent indentation style.
- 33. The code shall be understandable.
- 34. The code shall contain comments so that team members can quickly learn what different pieces of code do without having to dive deep into the code.
- 35. There shall be a limit to the line length of the code to avoid horizontal scrolling.
- 36. The team lead shall decide if code is at the agreed upon standard.
- 37. The team lead shall decide whether code can be pushed to the main branch.
- 38. The coding will be done in a modular way.
- 39. Code modules will be reused as often as possible.
- 40. CSS will be applied to classes.
- 41. CSS will not be applied to ID's.
- 42. Scripts will be in their own files
- 43. NodeJS modules will be installed in the 'node_modules' folder.
- 44. The website will use a public and private folder to serve web content.
- 45. Stylesheets will be in their own files.
- 46. HTML files will be in the HTML folder.
- 47. CSS files will be in the CSS folder.
- 48. Script files will be in the Script folder.
- 49. Express routers will be placed in their own folder.
- 50. Handlebars partials will be in their own folder.
- 51. Handlebars templates will be in their own folder.
- 52. Handlebars layouts will be in their own folder.
- 53. Images will be in their own folder.
- 54. The main branch for code will be the 'dev' branch.
- 55. Code that is ready to be tested will be moved from the 'dev' branch to the 'testing' branch.
- 56. Code that has been tested will be moved from the 'testing branch' to the 'master' branch.
- 57. Code will only be pushed after pulling first.

Availability

- 58. The website will not restrict users based on their geographic location.
- 59. The website's URL shall be reliable to access its contents.
- 60. The website's URLs shall be simple and short.
- 61. The website will load in at least 20 seconds unless there is a system error.

Scalability

- 62. The website will be designed such that it can be migrated to higher-performance hardware if demand increases.

Fault intolerance

- 63. A backup of the virtual server will be performed daily.
- 64. The virtual server will be restored from a backup in the event of a total system failure.

Expected load

- 65. The website is expected to handle 10-20 users at a time.

Privacy

- 66. Globetrotter and its employees cannot be held responsible for any data leaks.
- 67. Globetrotter and its employees cannot be held responsible for any data loss.
- 68. The website shall not save the users CVV number during the checkout process.
- 69. The website shall not save the users CVV number after the checkout process.
- 70. This website shall not sell user personal information to third parties.
- 71. The website will not share private user information with other users unless where explicitly done by the user.
- 72. The website shall not store any user medical information.
- 73. The website will not store users' IP addresses.
- 74. The website will not share users' IP addresses.
- 75. The website will not publish any false or fraudulent information in any form.

Legal

- 76. The website shall have Terms and Conditions which users must consent to before logging in.
- 77. The website shall notify the user when the Terms and Conditions have been changed.
- 78. The website shall not let the user continue until they have accepted the updated Terms and Conditions.
- 79. Users agree not to harass Globetrotter employees using the website or email.
- 80. Users agree not to harass other users using the website or email.
- 81. Users agree not to post illegal content on the Globetrotter website.
- 82. Users agree not to DDoS the Globetrotter website.
- 83. Users agree not to tamper with the source code of the Globetrotter website.
- 84. Users agree not to upload invalid data, viruses, worms or others through the website.
- 85. Users agree to provide truthful and accurate content.
- 86. The website shall have a copyright notice.

- 87. All content of the website is released under GNU Public License v3 unless otherwise noted.
- 88. Website is not responsible for users' violation of any laws while using the Service.
- 89. Website reserves the right to suspend or terminate any user at any time.

Look and Feel

- 90. The website will use a uniform color palette on all pages of the site.
- 91. The website will have a responsive design.
- 92. The website will scale to the width of the screen.
- 93. The website will scale to the height of the screen.
- 94. The website will be optimized for tablet clients.
- 95. The website will be optimized for desktop clients.
- 96. The website will be optimized for mobile clients.
- 97. The website will have readable text font size.
- 98. The website will have uniform font styles.
- 99. The website will have no typos.
- 100. The website will have alt tags for images.
- 101. The website will have title tags for images.
- 102. The website will accurately display currency to two decimal places.

Competitive Analysis

Quick Comparison

	Tripadvisor	Road Trippers	Triplt	Kayak	Wander
Strengths	Lots of options and suggestions	Great map display and fascinating pictures	Automatically scans and imports travel plans from connected primary email's inbox.	Flexible methods for adding services (manual, search, import), intuitive UI	Variety of travel packages ready to go, many ways to search for the ideal trip
Weaknesses	Too many blogs and guides	Only support road trips	Cannot search for flights to book	No photo gallery	Website feels cluttered
Social Media	Daily posts to Instagram, twitter and facebook	Blog posts, Facebook, Twitter	Blog posts, Instagram, Twitter, YouTube	Frequent social media posts on Facebook and Twitter	Blog posts on Facebook, Twitter, Instagram
Pricing	Free/ \$99/year (Plus)	Free/ \$29.99/year (Plus)	Free / \$49/year(Pro)	Free	Free

Feature Comparison

	Tripadvisor	Road Trippers	Triplt	Kayak	Wander	Globetrotter
Users can add travel destinations	+	+	+	+	+	+
Users can search for flights	+	-	-	+	+	+
Users can search for hotels	+	+	-	+	+	+
Users can search for restaurants	+	+	-	+	-	+
Users are given suggestions for flights	+	-	-	+	+	+
Exportable itinerary	+	+	+	+	+	+
Supports collaboration on trips	+	-	+	+	-	+
Personal Photo Gallery	-	-	-	-	-	++

Economic Plan

Most of the competitors use ads to generate revenue for their site. Potential sources of revenue for Globetrotter include:

- Limit the number of trips that a user can create for free; charge for additional
- Limit the types of activities that a user can add to their trip for free; charge for additional
- Sell a subscription option
- Sell advertisements to travel-related businesses

Personal Photo Gallery (Advanced Feature)

Registered Users will be able to upload photos to their personal photo album which they can share with other users. Photo album will be a collaborative feature where the owner of the photo album will be able to add other users to post photos in their album. Personal photo albums will only be viewable to the owner of the photo album and the people added to the album. Only the owner of the photo album will be able to rename, edit description, and delete the photo album. Only the owner of a photo uploaded to a photo album will be able to rename, edit description, and delete the photo. Compared to our competitors, our Personal Photo Gallery is an advanced feature because it gives the ability for users to have personal photo albums and collaboratively work on it.

Tools and Frameworks

Frameworks

- NodeJS
- Express
- Handlebars

IDE

- Visual Studio Code

APIs

- SkyScanner Flight Search
 - This service will allow us to get flight price estimates.
 - <https://rapidapi.com/skyscanner/api/skyscanner-flight-search/>
- Compare Flight Prices
 - This API returns flight prices from Expedia, Travelocity, etc.
 - <https://rapidapi.com/obryan-software-obryan-software-default/api/compare-flight-prices/>
- Travel Advisor
 - Travel Advisor allows for searching of places (restaurants, hotels, etc.) within a rectangular region or radius. The API returns the names of the places, price info, and ratings.
 - <https://rapidapi.com/apidojo/api/travel-advisor/>
- SendGrid
 - Adds the ability to send emails to users.
 - <https://sendgrid.com>

Checklist

- Team found a time slot to meet outside of class.

DONE

- Github master chosen

DONE

- Team decided and agreed together on using the listed SW tools and deployment server.

DONE

- Team ready and able to use the chosen back and front end frameworks and those who need to learn are working on learning and practicing.

ON TRACK

- Team lead ensured that all the team members read the final M1 and agree/understand it before submission.

DONE

- Github is organized as discussed in class (e.g. master branch, development branch, folder for milestone documents, etc.)

ON TRACK

List Of Team Contributions

Taylor

- Executive Summary
- Added some Functional/Non-Functional Requirements
- Wrote Use Case for 'Planning a Vacation Schedule'
- Helped with competitive analysis for Kayak and Tripadvisor

Luis

- Wrote "Business Meeting" Use Case and drew Use Case Diagram
- Contributed to Functional/Non-Functional Requirements
- Contributed to Application Entities
- Contributed to competitive analysis for Tripadvisor and Triplt.
- Added SendGrip Api to our list

Yi

- Wrote 'Social Media' Use Case
- Contributed to Function/Non-Functional Requirements
- Contributed to competitive analysis for RoadTrippers.

Robin

- Wrote "Photo Gallery" Use Case
- Contributed to Functional/Non-Functional Requirements
- Contributed to competitive analysis for Wander

Kajeme

- Wrote Use Case and made a Use case diagram
- Contributed to Functional Requirements
- Contributed to Non-Functional Requirements
- Contributed to Competitive Analysis for Kayak

Jesus

- Wrote "Transportation" Use Case.
- Wrote "Inviting of Guests on Trips" Use Case.
- Contributed to Functional/Non-Functional Requirements.
- Contributed to competitive analysis for Wander.
- Contributed in creating the Checklist.