Guide Book Pro

Elaboration Phase:

Version 7.0

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ID:SR031– Guide Book Pro will be accessible from the browser.

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ID:SR034– Guide Book Pro will reference International Standardization of Organization (ISO) 9000 to ensure usability, reliability, maintainability, portability, etc for quality standards.

2. Use Cases Descriptions & Diagrams

Use Case Description 1: Activate Account

Use Case Name: Activate Account	**ID**: 01	**Importance Level**: High
Primary Actor: Website User		**Use Case Type**: Detail, Essential

Stakeholders and Interests:

- · *Website User:* wants to successfully activate their account to access Guide Book Pro
- · *Website:* ensures a seamless and secure activation to maintain integrity
- · *Database:* Stores the website user's account information and status
- · **Access Controls:** Enforces authentication before accessing the site

Brief Description: This use cases describes how the client will activate their account through a registration link

Trigger: User clicks on the link sent through email to activate their account

Type: External

Relationships:

> *Association:* Website User
>
> *Include:*
>
> *Extend:*
>
> *Generalization:* Account Activation Process

Normal Flow of Events:

1. The user Is sent an activation link through email.
2. Use clicks on the activation link.
3. The link sends the user to the website's activation page.
4. Users arrive at the activation page where they are prompted to enter their email which will be part of their log in credential.
5. Users enter their own password.
6. Users re-enters their password to confirm it.
7. The user presses a button labeled "Activate."
8. The website verifies the link and provides a password when the user's account is activated.
9. The user can now log in to their account using email and password on Guide Book Pro.

SubFlows:	
· *None Identified*	

| Alternate/Exceptional Flows: |
|---|
| 1a. Activation Link Expired

2a. Email not received

3a. Technical error during activation

4a. Account already activated |

Use Case Description 2: Login to website

Use Case Name: Login to website	ID: 02	Importance Level: Medium
Primary Actor: Website User		Use Case Type: Detail, Essential
Stakeholders and Interests: · **Website User:** Access their Guide Book Pro account by logging in with their credential · **Website:** ensures security and grants access to the user account upon successful login · **Access Controls:** Enforces authentication before accessing the site		
Brief Description: This use cases describes how the client will log in to their Guide Book Pro account by entering their credentials.		

Trigger: User opens Guide Book Pros website and inputs their email and password

Type: Internal

Relationships:

 Association: Website User

 Include:

 Extend:

 Generalization: Account Login Process

Normal Flow of Events:

10. The user open up Guide Book Pro where they are immediately prompted to Log In

11. The user enters their email address into the designated field

12. The user enters their password into the designated field

13. User clicks on "Log In" button

14. If the credentials match then the website grants access to the whole website

SubFlows:

 · *None Identified*

Alternate/Exceptional Flows:

 1a. Invalid Credentials

 2a. Account Locked

 3a. Forgot Passwords

Use Case Diagram 1-2:

Account Activation and Use

Activate Account

Login to Website

Website User
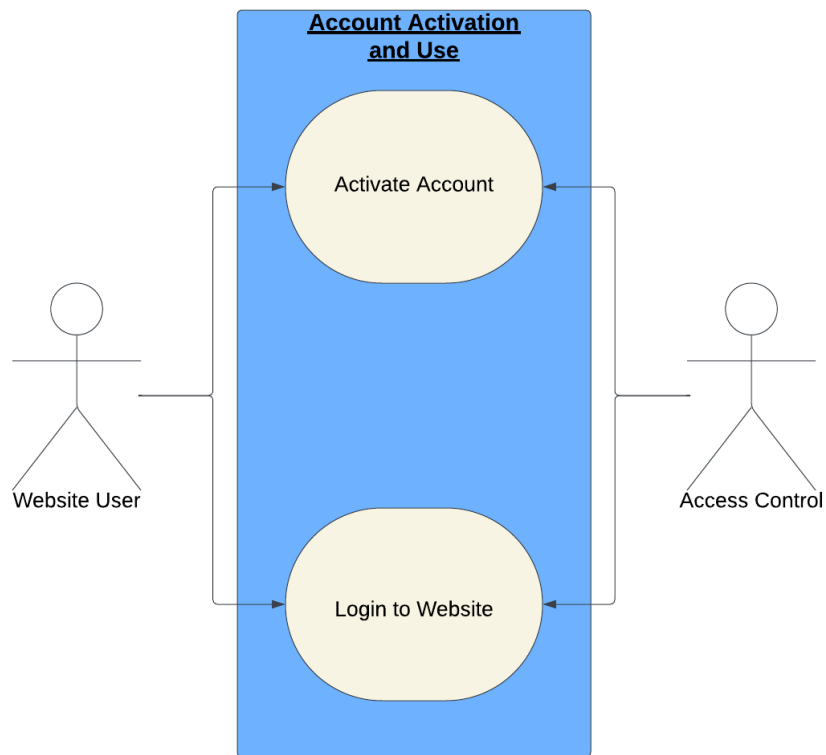
Access Control

The use case diagram for activating an account and login to the website shows the system's secure access control. It requires the website user to authenticate themselves before accessing the website. Including the activate account use case in the diagram, Guide Book CEOs can infer that the website user needs to activate their account first. The login to website use case represents the primary interaction point for the website user to enter their credentials ensuring that only authorized users can access the website. The website should feel like the user is entering the Met Gala of the fishing world, contributing to a positive impression of the platform.

Sequence Diagram Use Case 1-2:
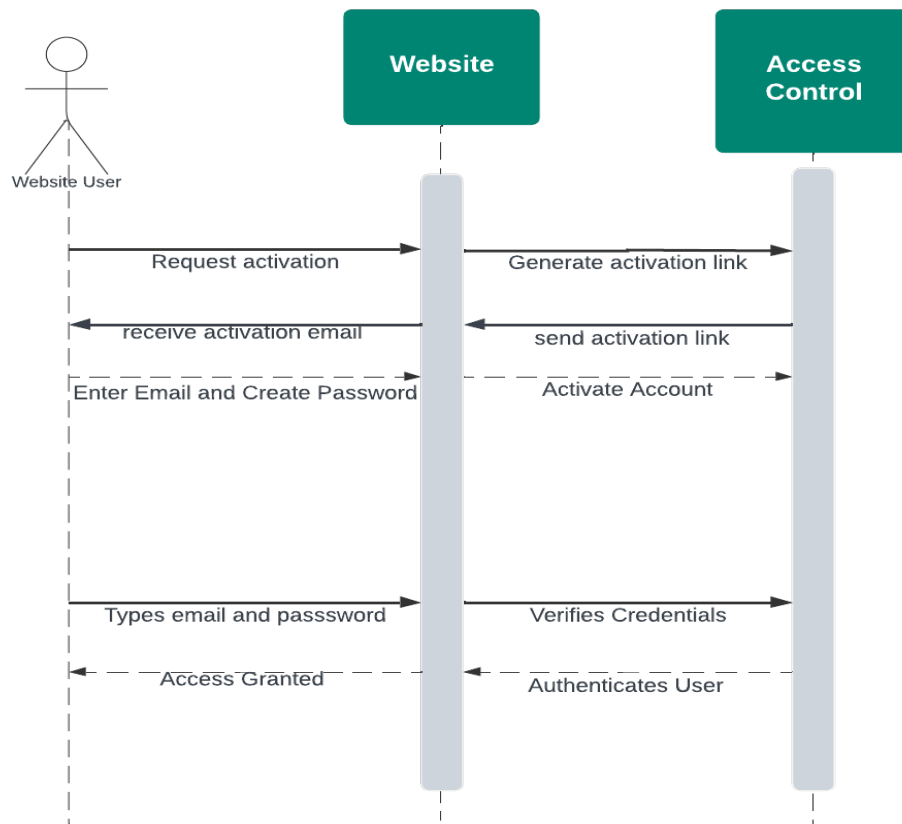
Use Case Description 3: Website Tutorial

Use Case Name: Website Tutorial	ID: 03	Importance Level: low

Primary Actor: Website User	**Use Case Type**: Detail, Essential

Stakeholders and Interests:

· **Website User:** Familiarize themselves with the website's features and functionality through a tutorial after their FIRST login.

· **Website:** provide a comprehensive tutorial for new users to understand the website.

· **Programers**: Creates and updates a user-friendly and informative tutorial that accurately reflects the website and enhances the user experience.

Brief Description: This use case describes the process where a website user is presented with a tutorial upon their first login, giving them the option to view a full tutorial or a brief tutorial.

Trigger: User logs into Guide Book Pro for the first time

Type: External

Relationships:

Association: Website User

Include:

Extend:

Generalization: Tutorial Process

Normal Flow of Events:

15. User logs into website
16. Websites detects if it's the users first time logging in
17. If the first time the user selects which tutorial they would like
a. Full tutorial: user chooses to view the a comprehensive tutorial for the whole website
b. Brief Highlight: User chooses a condensed version of the tutorial which high the main key features of the website

4. Website displays the selected tutorial

5. Use goes through the website, learning about the features

6. At the end of the tutorial the user is redirected to the website homepage.
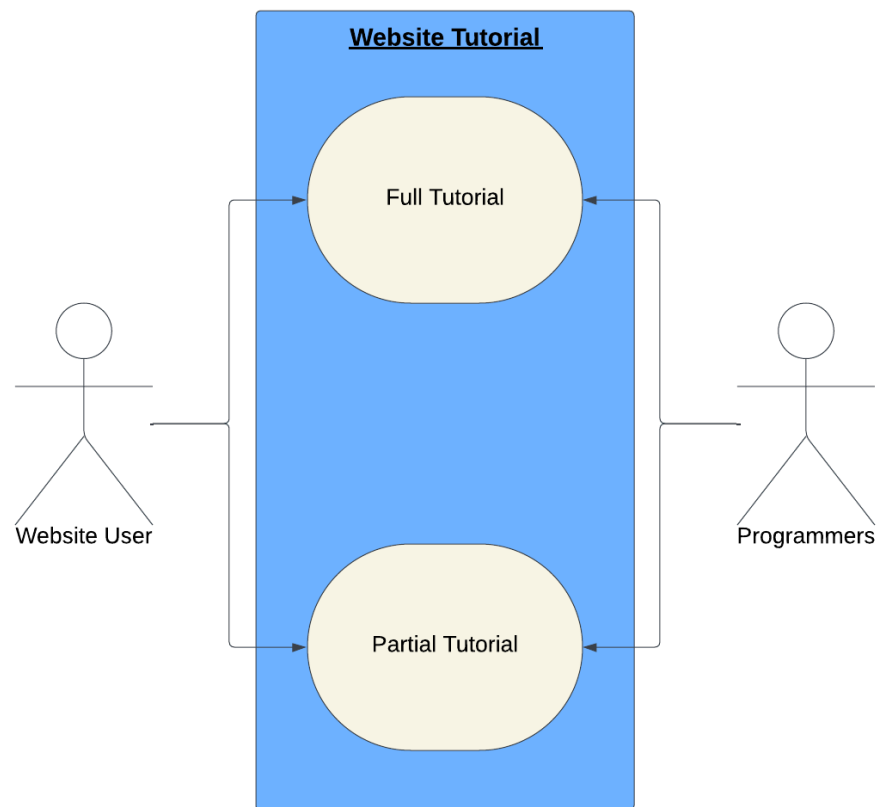
SubFlows:

· *None Identified*

Alternate/Exceptional Flows:

1a. Returning user

2a. Skip tutorial

3a. Forgot Passwords

Use-Case Diagram 3:

Website Tutorial

Full Tutorial

Website User

Programmers

Partial Tutorial

The diagram above shows two actors represented by stick figures. These are the external entities that interact with the system. Programmers will be the ones creating the partial and full tutorial, represented by the pill container in the middle which is the use case. The website user will use the tutorials to understand the website. Adding the tutorial will help enhance user experience and reduce support burden.

Sequence Diagram 3:
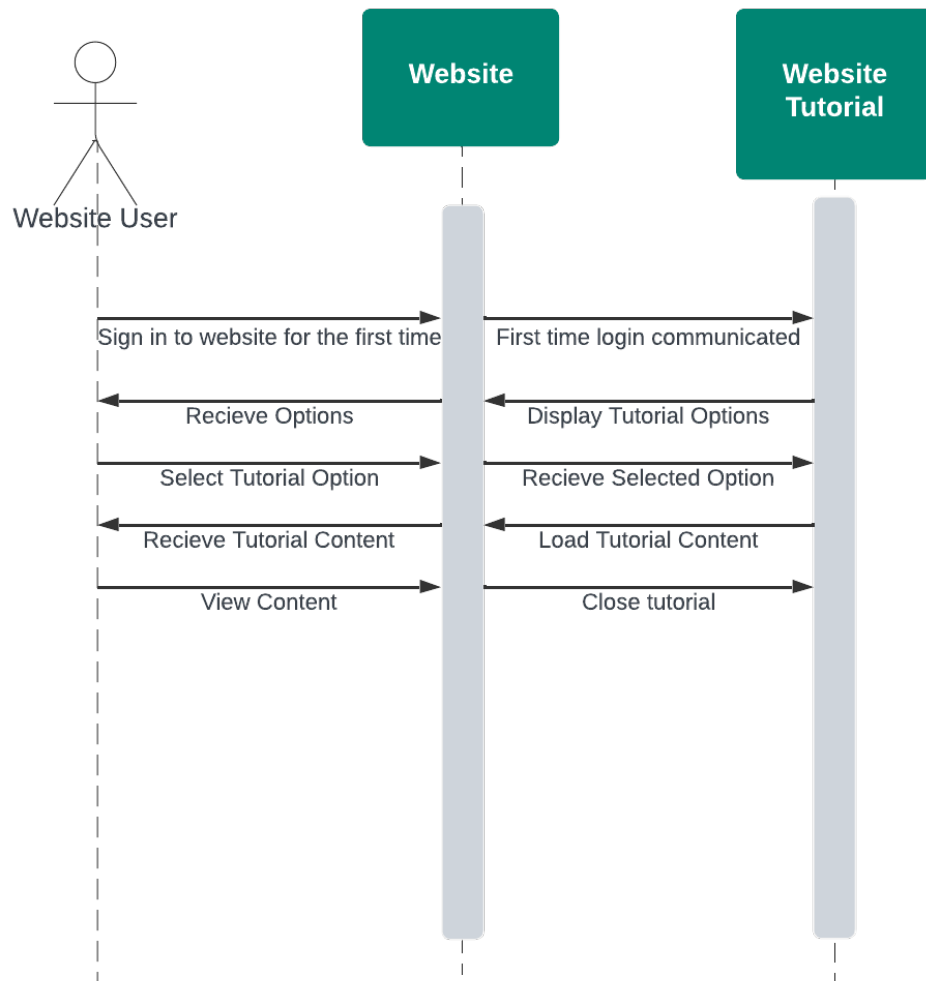
Use Case Description 4: Filter by Location

Use Case Name: Filter by Location	ID: 04	Importance Level: Low

Primary Actor: Website User	**Use Case Type**: Detail, Essential

Stakeholders and Interests:

· *Website User:* Finds their trips based on specific locations to meet their preference.

· *Website:* Provides a filtering mechanism for users to search for trips based on location.

· **Database**: Stores the trip's location as data to facilitate accurate filtering.

· **Filtering Feature:** allows users to easily find and book the fishing trips that best suit their preferences.

Brief Description: THis use case describes the process where a website user can filter trips based on location to find preferred fishing trip.

Trigger: User begins to search for trips and applies location filters

Type: External

Relationships:

    Association: Website User

    Include:

    Extend:

    Generalization: Trip Filtering Process

Normal Flow of Events:

18. User navigates to the available trip section of the website.
19. The website has filtering options, which have the option to filter by location.
20. The user selects the "Location" option.
21. Users will type in what they are looking for.
22. Website displays a list of locations the user has typed in or began to type.
23. User selects one or more locations from the lists.
24. User clicks on the "Apply" button.

| 25. Website applies the selected location filters to the list of trips. |
| 26. Website displays the filtered trips, from the selected criteria. |

| **SubFlows:** |
| · *None Identified* |

| **Alternate/Exceptional Flows:** |
| 1a. Location filter removal |
| 2a. Multiple Location selected |
| 3a. No results found |

Use Case Description 5: Filter by species

Use Case Name: FIlter by species	**ID**: 05	**Importance Level**: Low
Primary Actor: Website User		**Use Case Type**: Detail, Essential
Stakeholders and Interests: · *Website User:* Finds their trips based on specific species to meet their preference. · *Website:* Provides a filtering mechanism for users to search for trips based on species. · **Database**: Stores the fishing trip's species as data to facilitate accurate filtering.		

· **Filtering Feature:** allows users to easily find and book the fishing trips that best suit their preferences.

Brief Description: This use case describes the process where a website user can filter trips based on species to find preferred fishing trip.

Trigger: User begins to search for trips and applies species filters

Type: External

Relationships:

     Association: Website User

     Include:

     Extend:

     Generalization: Trip Filtering Process

Normal Flow of Events:

27. User navigates to the available trip section of the website.
28. The website has filtering options, which have the option to filter by species.
29. The user selects the "Species" option.
30. Users will type in what they are looking for.
31. Website displays a list of species the user has typed in or began to type.
32. User selects one or more species from the lists.
33. User clicks on the "Apply" button.
34. Website displays a list of available species for the user to select.
35. User selects one or more species from the lists.
36. Website applies the selected species filters to the list of trips.
37. Website displays the filtered trips, from the selected criteria.

SubFlows:
· *None Identified*

Alternate/Exceptional Flows:
1a. species filter removal 2a. Multiple species selected 3a. No results found

Use Case Description 6: Filter by Technique

Use Case Name: FIlter by Technique		ID: 07	Importance Level: Low
Primary Actor: Website User			Use Case Type: Detail, Essential
Stakeholders and Interests: · *Website User:* Finds their trips based on specific technique to meet their preference. · *Website:* Provides a filtering mechanism for users to search for trips based on technique. · **Database**: Stores the fishing trip's technique as data to facilitate accurate filtering. · **Filtering Feature:** allows users to easily find and book the fishing trips that best suit their preferences.			
Brief Description: This use case describes the process where a website user can filter trips based on technique to find preferred fishing trips.			

Trigger: User begins to search for trips and applies technique filters

Type: External

Relationships:

    Association: Website User

    Include:

    Extend:

    Generalization: Trip Filtering Process

Normal Flow of Events:

38. User navigates to the available trip section of the website.

39. The website has filtering options, which have the option to filter by technique.

40. The user selects the "Technique" option.

41. Website displays a list of available techniques for the user to select.

42. Users will type in what they are looking for.

43. Website displays a list of techniques the user has typed in or began to type.

44. User selects one or more techniques from the lists.

45. User clicks on the "Apply" button.

46. User selects one or more techniques from the lists.

47. Website applies the selected technique filters to the list of trips.

48. Website displays the filtered trips, from the selected criteria.

SubFlows:

    · *None Identified*

Alternate/Exceptional Flows:

    1a. Technique filter removal

    2a. Multiple Techniques selected

    3a. No results found

Use Case Diagram 4-6:

Filter Trips

Filter By Location

Filter By Species

Filter By Technique

Website User

Filtering Feature
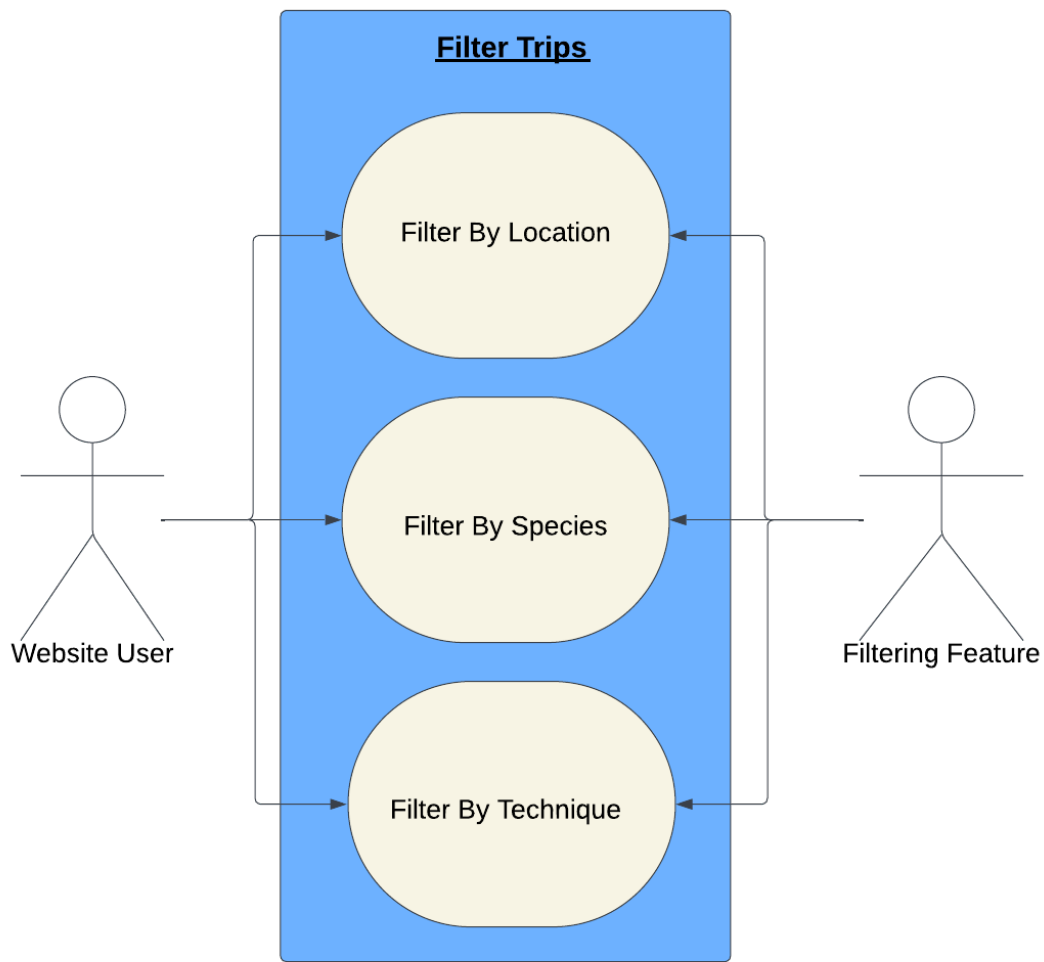
Use Case Diagram Narrative

The diagram above can conclude that the system is designed with a user-centric approach, offering filtering options that are tailored to the website user's preference. Having multiple filtering use cases demonstrates the system's comprehensive functionality. As well as allowing for scalability and flexibility, the system can add or remove the filtering criteria as the Guide Book CEOs would like.

Sequence Diagram 4-6:
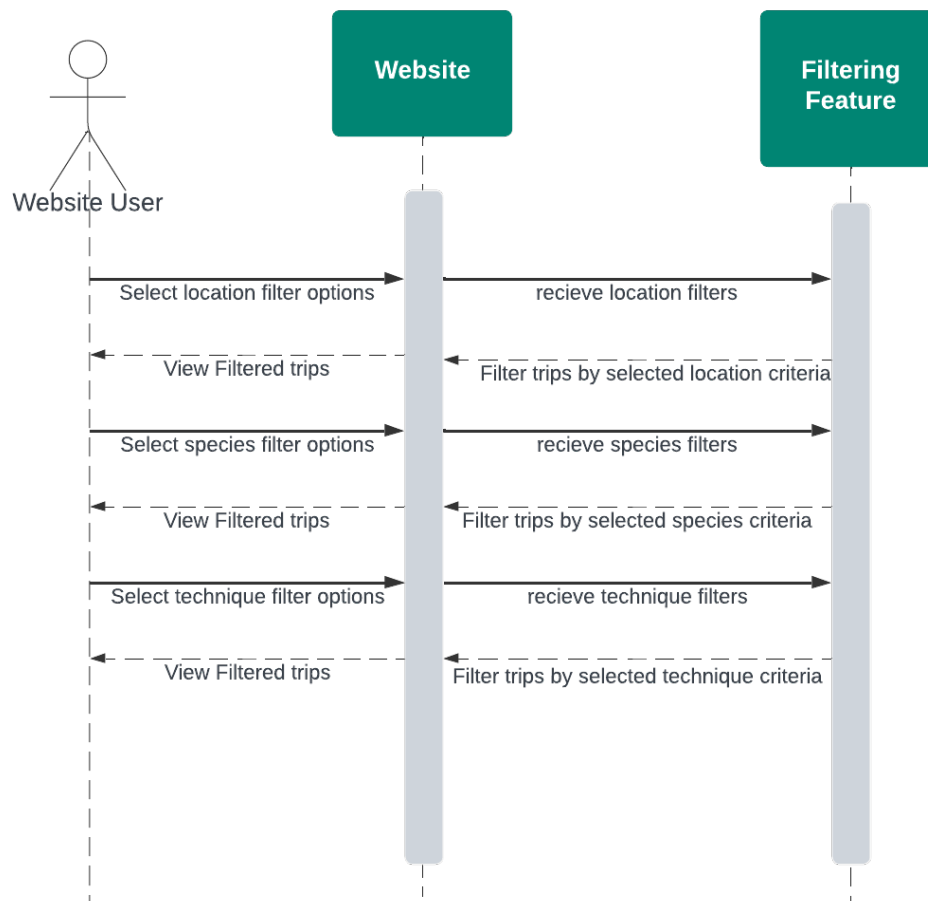
Use Case Description 7: View Available Dates

Use Case Name: View available dates	ID: 7	Importance Level: Medium
Primary Actor: Website user		Use Case Type: detail, essential

Stakeholders and Interests:

Founders (Ben Roberson and Stuart Jordan) – needing to be able to list only available dates that the guides have for the selected trip, so the offerings are accurate

Guides – needing to be able to advertise their availability to potential clients

Clients – wanting to compare availability of guides to their own schedule, in a quick and easy way

Brief Description: This use case describes how a user of this website would find and select available dates for the selected trip, for further processing.

Trigger: User clicks on "available dates" button while browsing the trip details

Type: External

Relationships:

 Association: Website user

 Include:

 Extend: Add selection to "My Trips"

 Generalization:

Normal Flow of Events:

1. User enters credentials to sign into login screen for authentication
2. User navigates to "Find trips" button to browse Guide Books offerings
3. User selects trip, which takes them to the details of the trip and gives them the option to view dates
4. User clicks on date picker utility which only has the appropriate dates available for selection
5. User selects desired date range

SubFlows:

None

Alternate/Exceptional Flows:

E-1: Returns to trips page to browse other offerings

E-2: Does not proceed with any selection and closes the website

Use Case Description 8: Add selection to "My Trips"

Use Case Name: Add selection to "My Trips"	ID: 8	Importance Level: Low
Primary Actor: Website User		Use Case Type: detail, essential
Stakeholders and Interests: Founders (Ben Roberson and Stuart Jordan) – wanting to give clients the ability to quicky add selections to a single place for further review and payment Website user - wanting to add trips to a single place for easy decision making seamless payment		

Brief Description: This use case describes how a user can take trip selections and add them to a single place for further review and payment

Trigger: Website user takes authorized selection from a trip page and adds it to "My trips" using "add to cart" button on the page

Type: External

Relationships:

    Association: Website user

    Include:

    Extend:

    Generalization:

Normal Flow of Events:

1. User enters credentials to sign into login screen for authentication
2. User navigates to "Find trips" button to browse Guide Books offerings
3. User selects trip, which takes them to the details of the trip and gives them the option to select the desired date range
4. User takes their selection and adds it to their "cart" for later review or immediate check out

SubFlows:

S-1: A message box will prompt two options, one allowing the user to continue browsing trip listings on the previous page, by selecting the corresponding button

S-2: A message box will prompt two options, one allowing the user to be directed to the "My Trip" page for payment/check out

Alternate/Exceptional Flows:

E-1: User could close the message box and not select either option, which would allow them to continue exactly where they left off within the trips page.

Use Case Diagram 7-8:
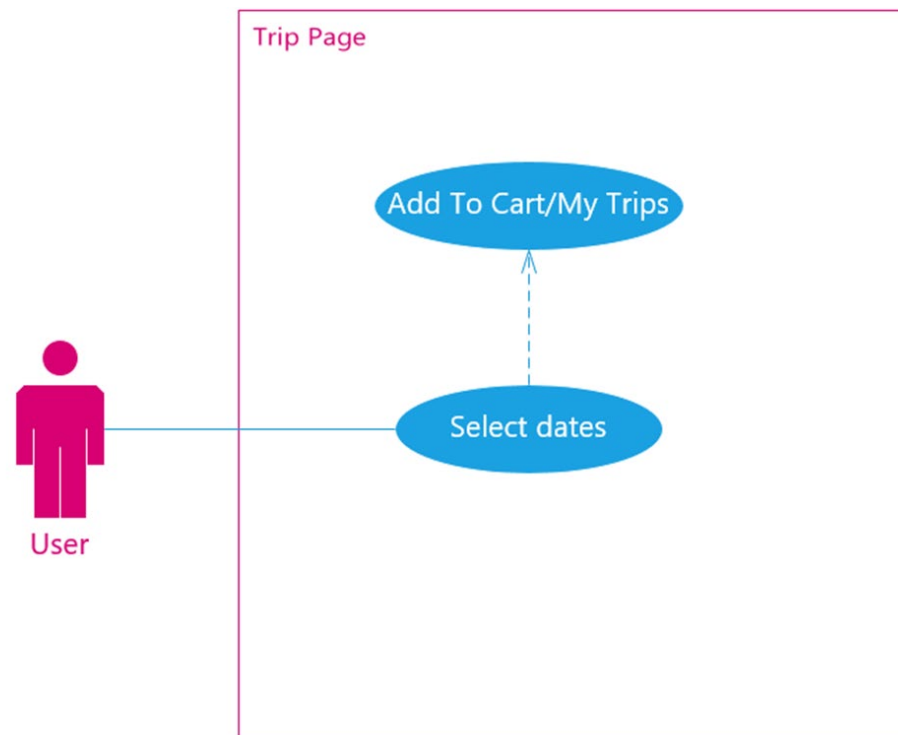
Use Case Diagram Narrative

Users of Guide Pro will be able to navigate to a date picker utility after opening the webpage for the selected trip listing. Once the date picker button is clicked, a calendar will open displaying the available dates for the listing and allow the user to select the desired date range. The date picker will not allow the user to select dates unless they're available, but if the appropriate dates are selected, they will then be able to add the selection to their "My Trips" section. The "My Trips" function stores selection for further review including check out processes and removal.

Sequence Diagram 7-8:

Communication Diagram

Trip Page
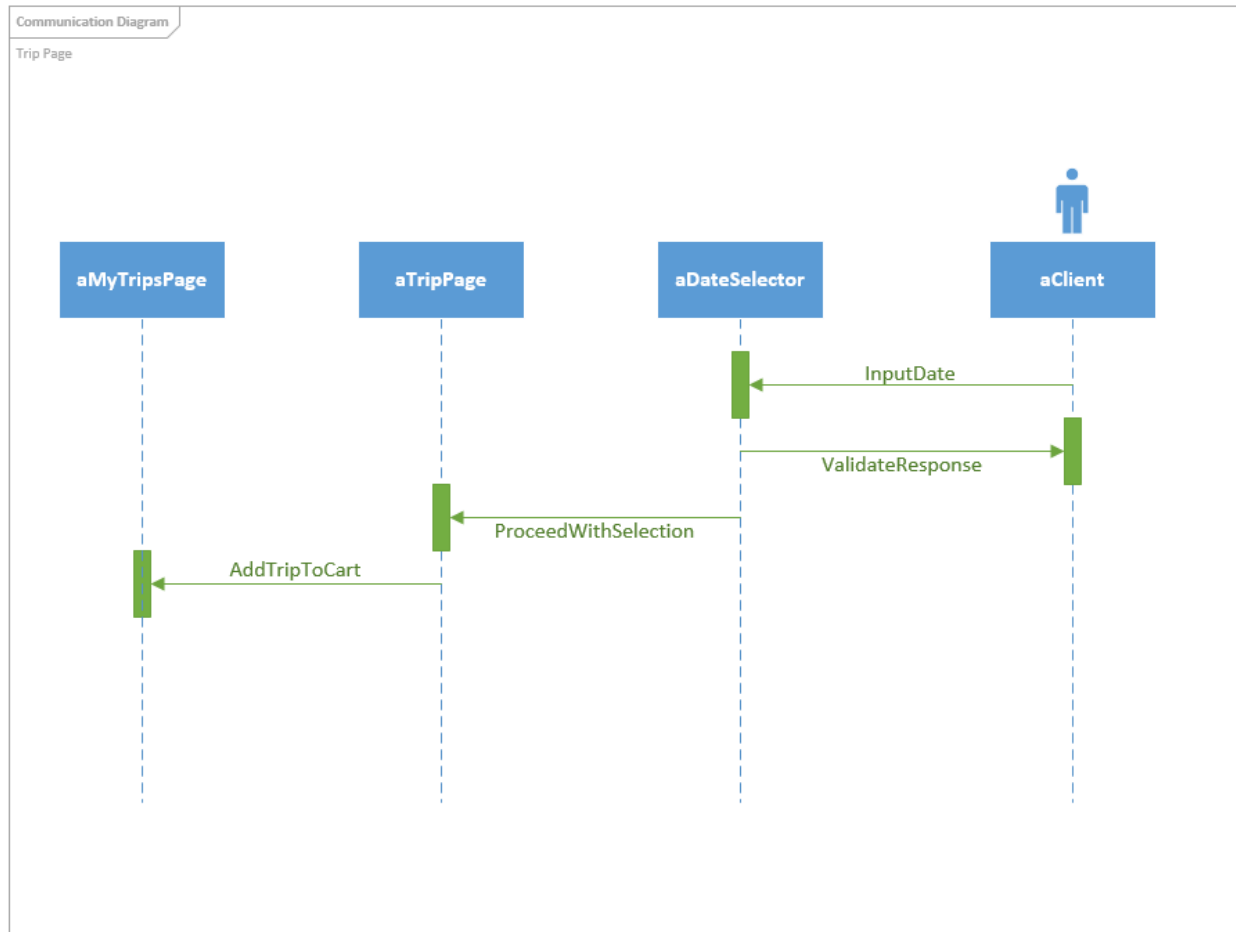
Use Case Description 10: Pay for selected trip/s

Use Case Name: Pay for selected trip/s	ID: 10	Importance Level: High
Primary Actor: Website User		Use Case Type: detail, essential

Stakeholders and Interests:

Founders (Ben Roberson and Stuart Jordan) – needing to quickly yet securely accept payment on behalf of guides for the services they are listing

Guides – needing to receive payment for the services they're offering

Website user – needing a way to securely enter card information for payment to be sent to guides once trips have been chosen

Brief Description: This use case describes how the website can accept payment from the user utilizing payment gateways and a check out style webpage

Trigger: The user selects the "check out" button which prompts further payment questions

Type: External

Relationships:

    Association: Website user

    Include:

    Extend:

    Generalization:

Normal Flow of Events:

1. User signs into the website using credentials
2. User locates the desired trip and adds it to their cart for check out
3. User proceeds to check out and clicks check out button
4. User is taken to Stripe's check out page, where they can enter their billing and contact information
5. Payment is accepted or denied, and if successful the funds will be released to the appropriate parties

SubFlows:

    S-1: Stripe's checkout page is populated to confirm billing and contact information

Alternate/Exceptional Flows:

    E-1: User can cancel payment anytime before the form is completed, and return to the website or exit entirely

Use Case Description 11: Receive booking confirmation

Use Case Name: Receive booking confirmation	**ID**: 11	**Importance Level**: Low
Primary Actor: Website User		**Use Case Type**: detail, essential

Stakeholders and Interests:

Founders (Ben Roberson and Stuart Jordan) – wanting to reliably and automatically send payment confirmation to clients

Website user – wanting peace of mind knowing their money was securely accepted, and an official receipt of their payment

Brief Description: This use case describes how this system will be capable of automating booking confirmations once payment is accepted

Trigger: Payment is accepted in Stripe check out page

Type: temporal

Relationships:

    Association: Website user

    Include:

    Extend:

    Generalization:

Normal Flow of Events:

1. User selects desired trip and adds to check out
2. User enters payment and contact information at check out
3. Payment information is accepted, and Stripe generates a purchase receipt that is sent to the recipients inbox

SubFlows:
Alternate/Exceptional Flows: E-1: Customer could call Guide Book's phone number to cancel the purchase, or contact the processor directly to dispute the charge

Use Case Diagram 10-11:
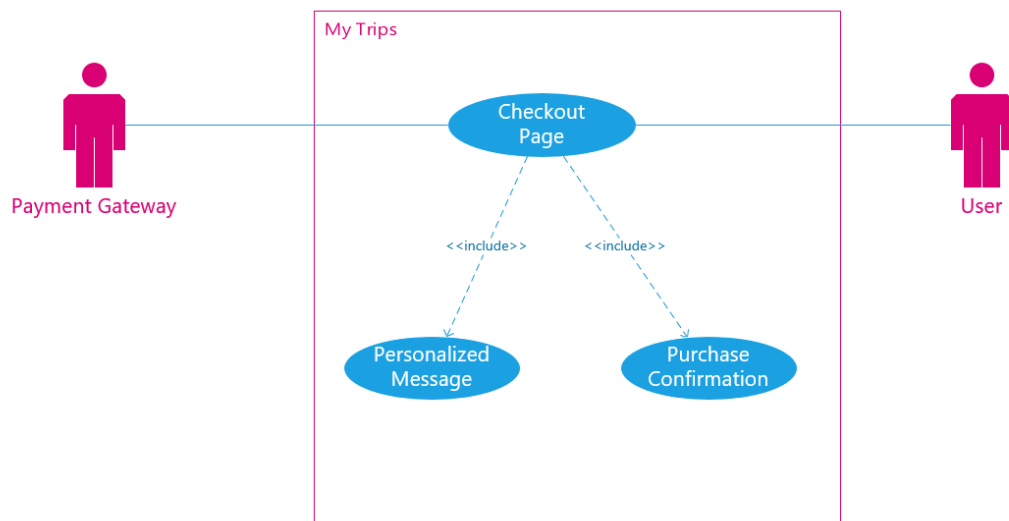

Use Case Diagram Narrative

This diagram is meant to show how the checkout webpage will allow website users to submit payment for their selections, by using a button that will redirect them to a secure Stripe payment form. Once the information is submitted and the payment gateway receives confirmation that the funds have been approved, there will be an order confirmation message

and other follow-up details. This is important so that the user knows the order was successfully

completed, which will act as a trigger for further communication.

Sequence Diagram 10-11:
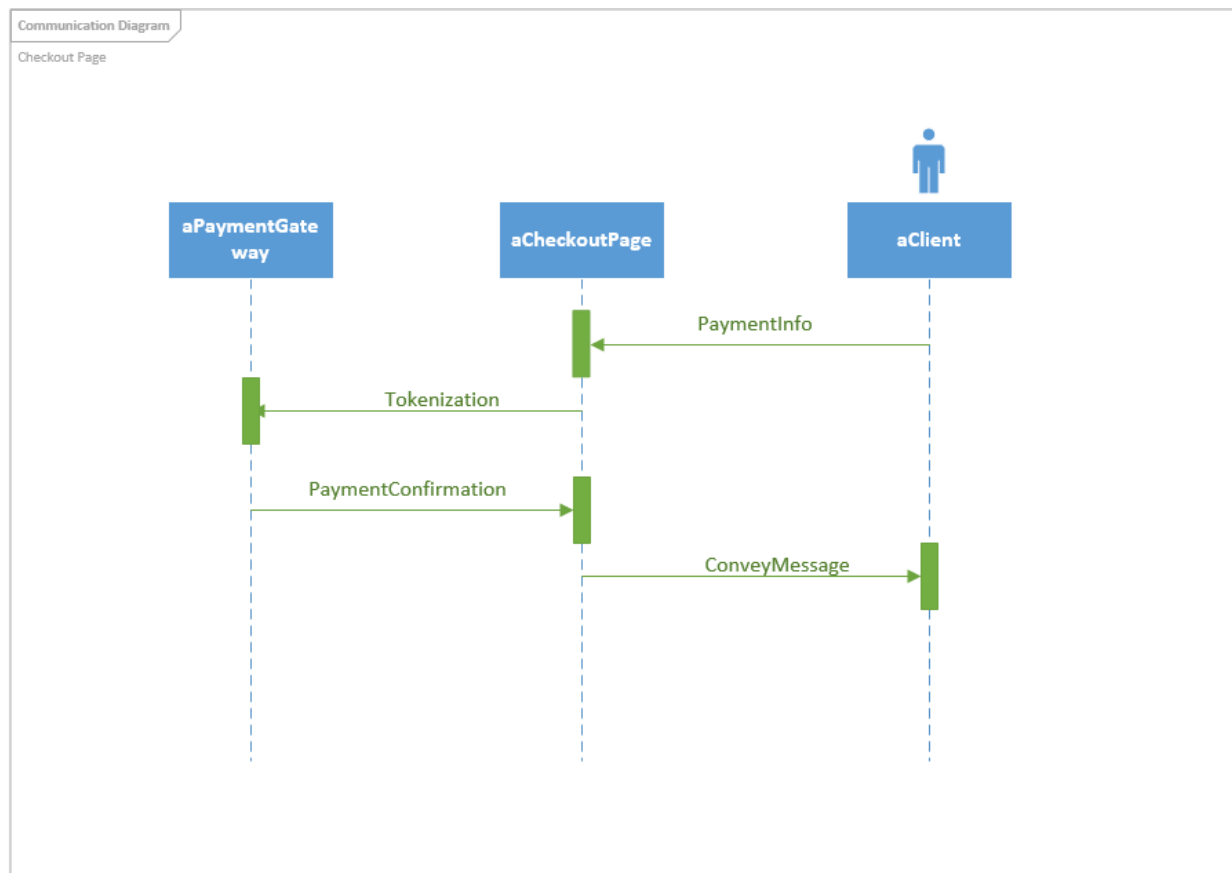
Use Case Description 9: Receive personalized messages

Use Case Name: Receive personalized messages	ID: 9	Importance Level: Low
Primary Actor: Website User		Use Case Type: detail, essential
Stakeholders and Interests:		

Founders (Ben Roberson and Stuart Jordan) – needing to automatically convey messages to users on their platform at designated times

Guide – Needing a way to convey their personality when their services have been selected

Website user – wanting to feel valued while using Guide Book Pro

Brief Description: This use case describes

Trigger: A user signs into the website for the first time or completes payment, which triggers a message box containing a personalized message from the people at Guide Book and it's guides

Type: temporal

Relationships:

Association: Website user

Include:

Extend:

Generalization:

New users

Returning users

Normal Flow of Events:

1. User signs into the login screen using their credentials
2. If the person is a first time visitor, then a message box is displayed catered for those unfamiliar with the platform.
3. The user will continue through to browse the contents of each trip
4. Once a selection is made, then the user will be directed to check out for payment
5. Once payment has been accepted, another message box is displayed with a message expressing gratitude and excitement to the client

SubFlows:

S-1: Execution of short code, Java Script, I Frame, or other plugins		
Alternate/Exceptional Flows: E-1:Based on cached browser data and local storage information, the website may not prompt the team member with message boxes oriented for users signing in for the first time		

Use Case Description 12: Complete Interest Survey

Use Case Name: Complete interest survey	ID: 12	Importance Level: Medium
Primary Actor: Website User		Use Case Type: detail, essential
Stakeholders and Interests: Founders (Ben Roberson and Stuart Jordan) – want a minimally invasive way to ask users to fill out a survey to gauge interest in guides and trips. Website user – need a painless way to fill out a form and continue their experience on the website		
Brief Description: This use case explains how the system will effectively prompt users to complete a survey.		
Trigger: A successful sign in will prompt a form to be presented to the user at certain intervals **Type**: temporal		
Relationships: *Association: Website user* *Include:* *Extend:*		

Generalization:

Participant

Non-participant

Normal Flow of Events:

1. User signs into login screen using credentials
2. If user is a non-participant in the survey, the webpage will display the form and prompt them to enter there responses
3. User returns to browsing the contents of the webpage

SubFlows:

Alternate/Exceptional Flows:

E-1: User will be recognized as having already filled out the survey, and not be asked to complete it again

E-2: User will close the form, denying the prompt to complete the survey and returning to their original point on the website

Use Case Diagram 9-12:
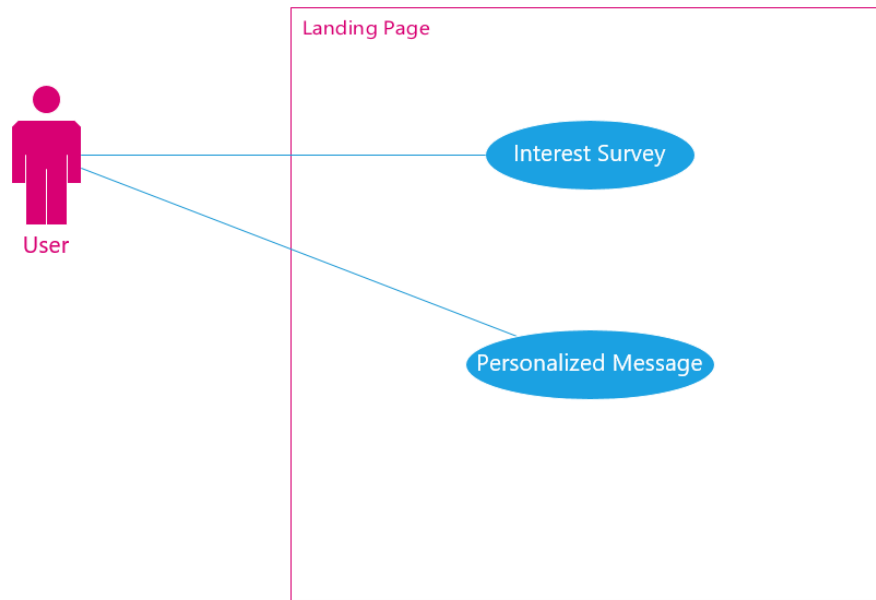
Use Case Diagram Narrative

The website should display surveys and message boxes at set intervals, which will allow stakeholders to gauge interest in their offerings and tailor the experience that their clients have while on the website. The webpages will utilize JavaScript, or others alike, along with other cached browser data to track traffic and trigger the message box that contains the appropriate content. If the content is a survey, the survey response should be captured and stored in the appropriate place for further review.

Sequence Diagram 9-12:

[Landing Page]

aClient

aSurveyForm

aMessageBox

surveyResponses

RequestInfo

ProvideInfo

StoreResponse

ConveyMessage
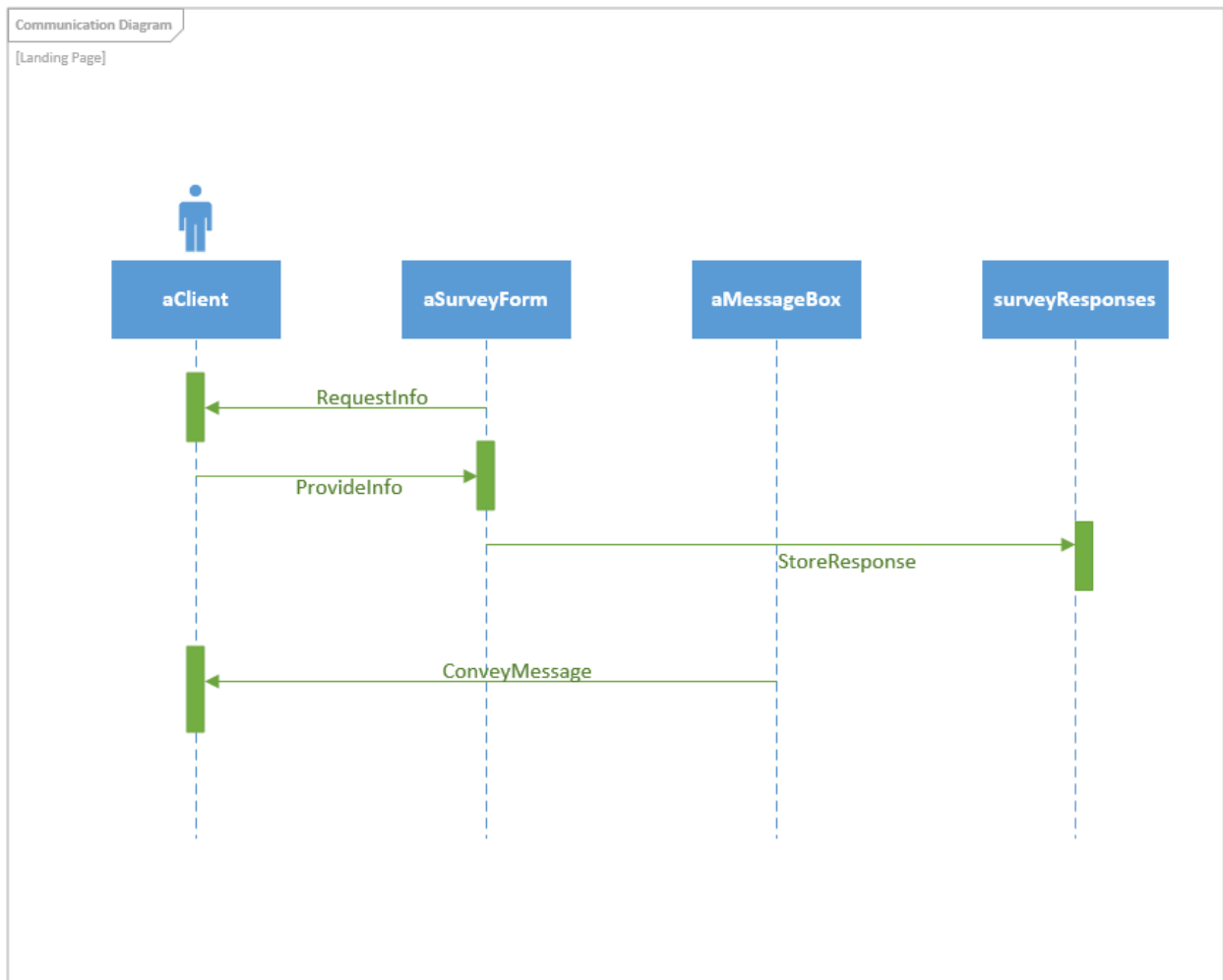
Use case description 13: Admin grant access

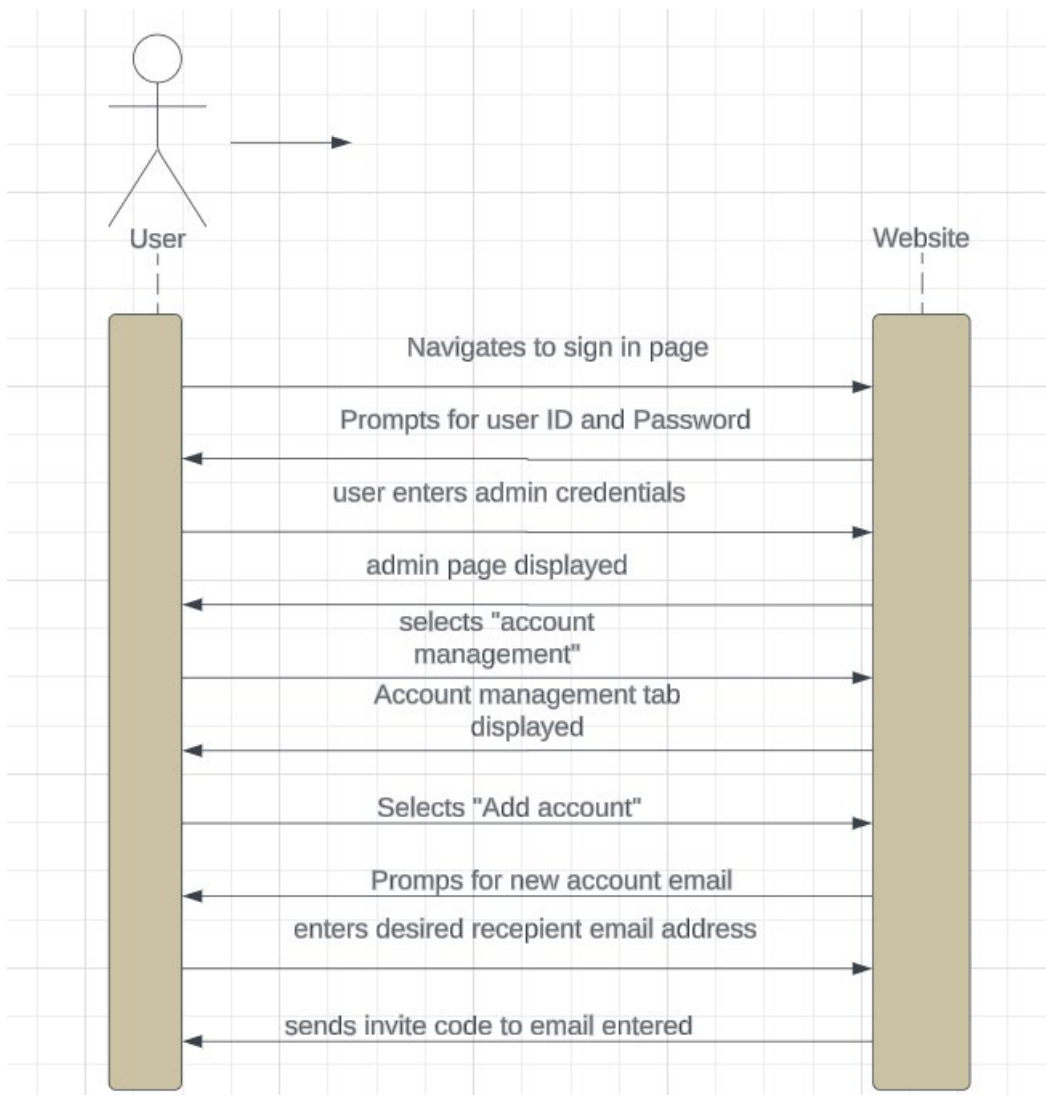| **Use Case Name**: Admin grant access	**ID**: 13	**Importance Level**: High
Primary Actor: Website Admin		**Use Case Type**: Detail, Essential

Stakeholders and Interests:

- *Website User:* Needs login link to access the site for the first time
- *Website Admin:* Wants to ensure site is kept secure from non-authorized users.

Brief Description: This use case describes how an admin can grant a specified user access to the site

Trigger: Admin clicks on 'Invite guest" button in the account management tab

Type: External

Relationships:

Association: Website admin

Include: Forgot Password (to set password initially)

Extend:

Generalization: Manage account security

Normal Flow of Events:

1. The admin logs onto GuideBook Pro with an admin specific log in.
2. The admin navigates to the account management tab.
3. Admin selects "Add account" button.
4. Admin enters desired recepients email address in the entry box.
5. Admin selects "invite guest" button.

Sequence Diagram use case 13:

Use case description 14: User receive reminders

Use Case Name: User receive reminders	ID: 14	Importance Level: Low
Primary Actor: Website User		**Use Case Type**: Detail, Essential

Stakeholders and Interests:
• *Website User:* Wants to receive reminders about upcoming trips

Brief Description: This use case describes how a user can receive reminders about upcoming trips

Trigger: User clicks on chats window
Type: External

Relationships:
Association: Website User
Include:
Extend:
Generalization: Profile information

Normal Flow of Events:
4. The website user logs onto GuideBook Pro
5. Website user navigates to the "My Profile" tab
6. User selects "Inbox" from the options
7. User can see all chat reminders from GuideBook

SubFlows:

• *None Identified*
Alternate/Exceptional Flows: 1a. User is unable to login due to lack of access. 2a. User has forgotten password. 3a. User has not booked a trip so they will not have any reminders

Sequence Diagram use case 14:

Use case description 15: Review fishing trip

Use Case Name: Review fishing trip	**ID**: 15	**Importance Level**: low
Primary Actor: Website user		**Use Case Type**: Detail, Essential

Stakeholders and Interests:

- *Website User:* Wants to leave a review on a guided trip.
- *Website User (Guide):* Wants to receive feedback on past excursions.

Brief Description: This use case describes how a user can leave a review for a trip they have taken

Trigger: User clicks "Add review" button on desired trip

Type: External

Relationships:

Association: Website User

Include:

Extend: View trip reviews

Generalization: Feedback on services

Normal Flow of Events:

1. Website user logs onto GuideBook Pro.
2. Website User navigates to the trips page.
3. Website user selects the trip they have taken prior.
4. User selects "Add Review" button.
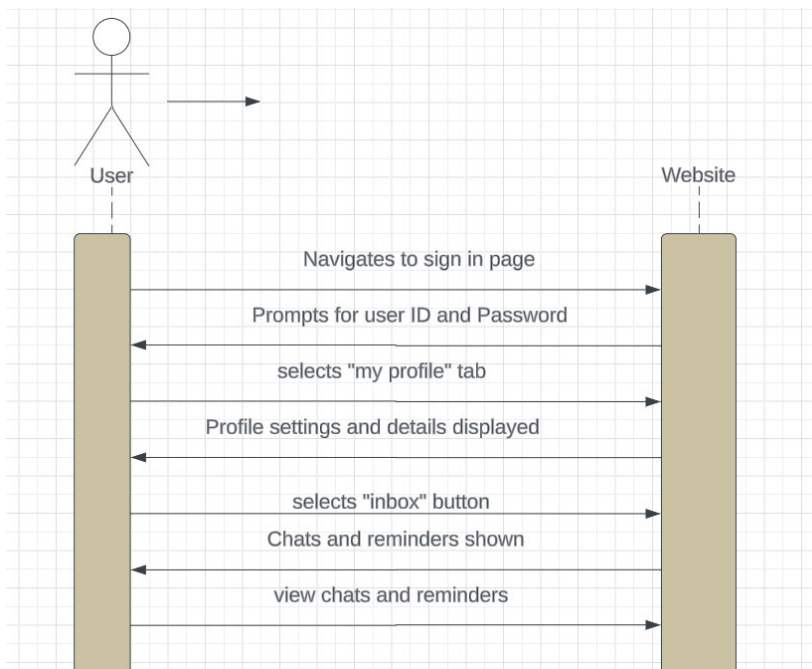5. User leaves feedback in the form of rating or text.

SubFlows:

- *None Identified*

Alternate/Exceptional Flows:

1a. User is unable to login due to lack of access.

2a. User has forgotten password.

3a. User is has not taken the selected trip and therefore cannot review.

Diagram use case 15:
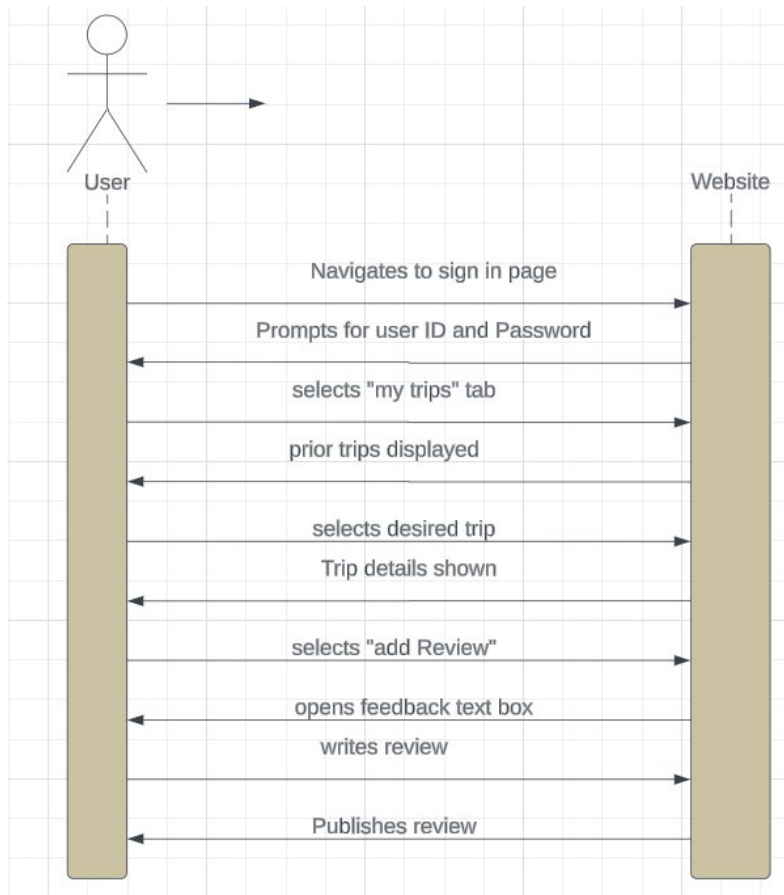
Use case description 16: View trip reviews

Use Case Name: View trip reviews		ID: 16	Importance Level: Low
Primary Actor: Website User		Use Case Type: Detail, Essential	
Stakeholders and Interests: *Website User:* Wants to view the reviews on a guided trip. *Website User (Guide):* Wants to view reviews from past excursions			
Brief Description: This use case describes how a user can view trip reviews			

Trigger: User clicks on 'View all reviews" button **Type**: External

Relationships:
 	
     Association: Website User
 	
     Include: Review Fishing Trip
 	
     Extend:
 	
     Generalization: Feedback on services

Normal Flow of Events:
 	
     Website user logs onto GuideBook Pro
     Website User navigates to the trips page.
     Website user selects the trip they are interested in.
     User selects "View all reviews" button.
     User is presented with other customers experiences.

SubFlows: *None Identified*

Alternate/Exceptional Flows:
 	
     1a. User is unable to login due to lack of access.
 	
     2a. User has forgotten password.

Sequence Diagram use case 16:

Use case description 17: User profile update

Use Case Name: User profile update	ID: 17	Importance Level: Low
Primary Actor: Website User		Use Case Type: Detail, Essential
Stakeholders and Interests: • **Website User:** Wants to update profile information. • **Website Admin:** Wants to ensure accounts are up to date.		
Brief Description: This use case describes how a user can update profile information		

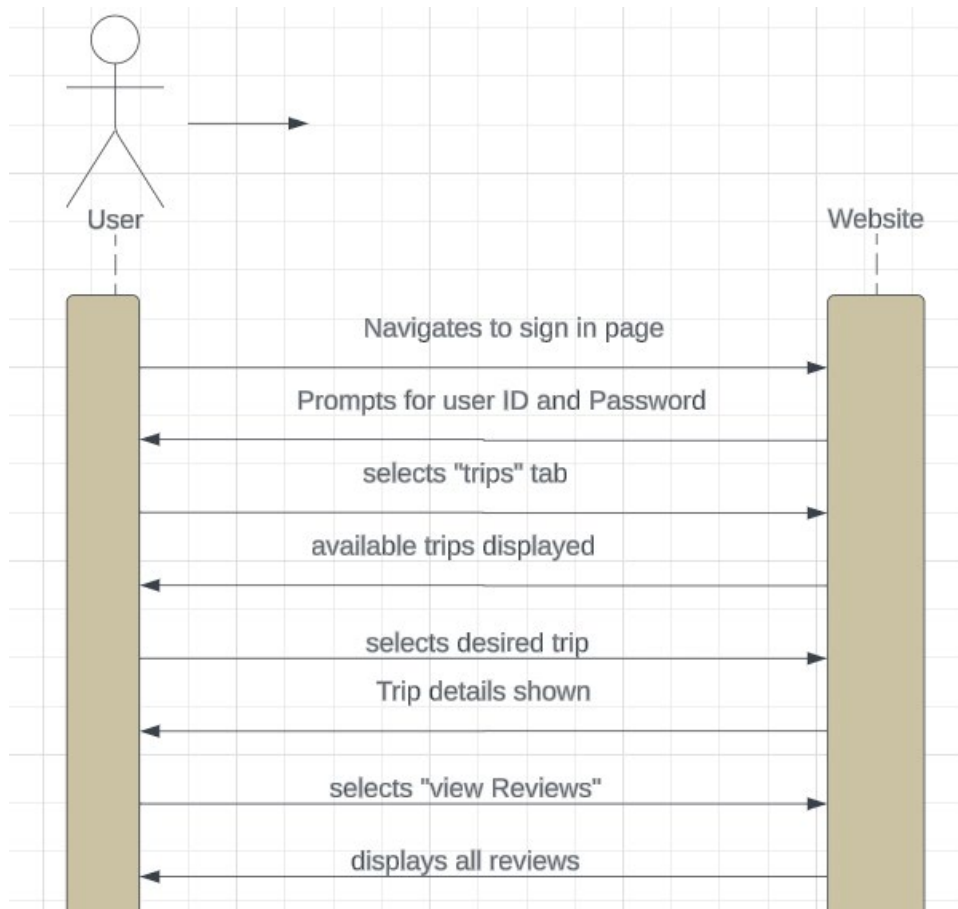| |
|---|
| **Trigger**: User clicks on "my profile" tab

Type: External |
| **Relationships**:

      Association: Website User

      Include:

      Extend: User receive reminders

      Generalization: Profile Information |
| **Normal Flow of Events:**

1. The website user logs onto GuideBook Pro
2. Website user navigates to the "My Profile" tab
3. User can update various profile information as needed |
| **SubFlows:**

• *None Identified* |
| **Alternate/Exceptional Flows:**

    1a. User is unable to login due to lack of access.

    2a. User has forgotten password. |

Sequence Diagram use case 17:
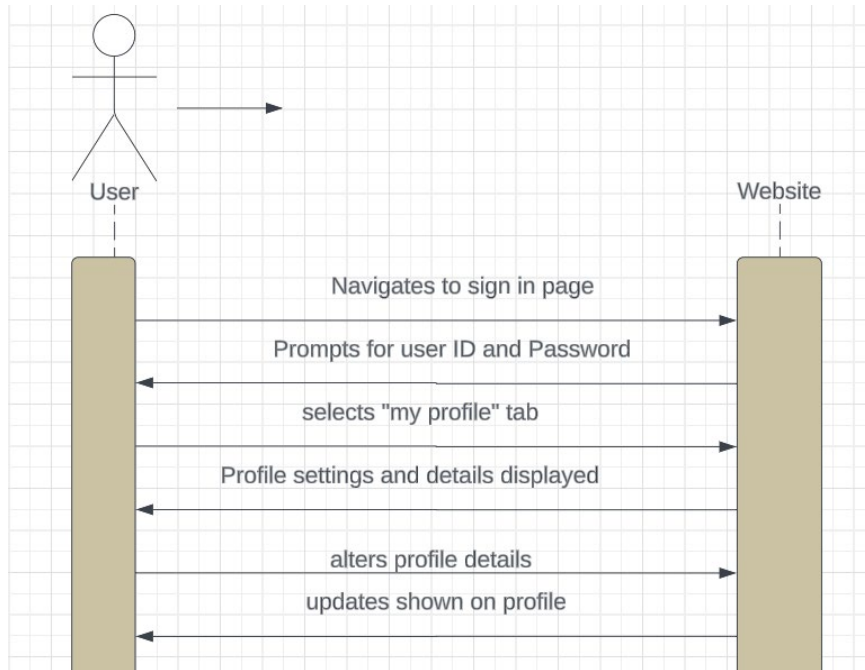
Use case description 18: User forgot password

Use Case Name: User forgot password	ID: 18	Importance Level: High
Primary Actor: Website User		Use Case Type: Detail, Essential

Stakeholders and Interests:
 	
   • ***Website User:*** Wants to recover access to an account with a forgotten password
   • ***Website Admin:*** Wants to ensure site is kept secure from non-authorized users.		

Brief Description: This use case describes how a user can regain access to the system after a password is forgotten		
Trigger: User clicks on 'Forgot password' button on the sign in page **Type**: External		

Relationships:

       Association: Website User

       Include:

       Extend: User log out

       Generalization: Manage account security

Normal Flow of Events:

1. The website user navigates to the login page of GuideBook Pro.
2. Website user selects the forgotten password button.
3. User enters associated account email address.
4. Website user receives password reset link in email inbox.

SubFlows:

- *None Identified*

Alternate/Exceptional Flows:

       1a.User does not receive a reset link.

       2a. User does not remember account email address.

Sequence Diagram use case 18:
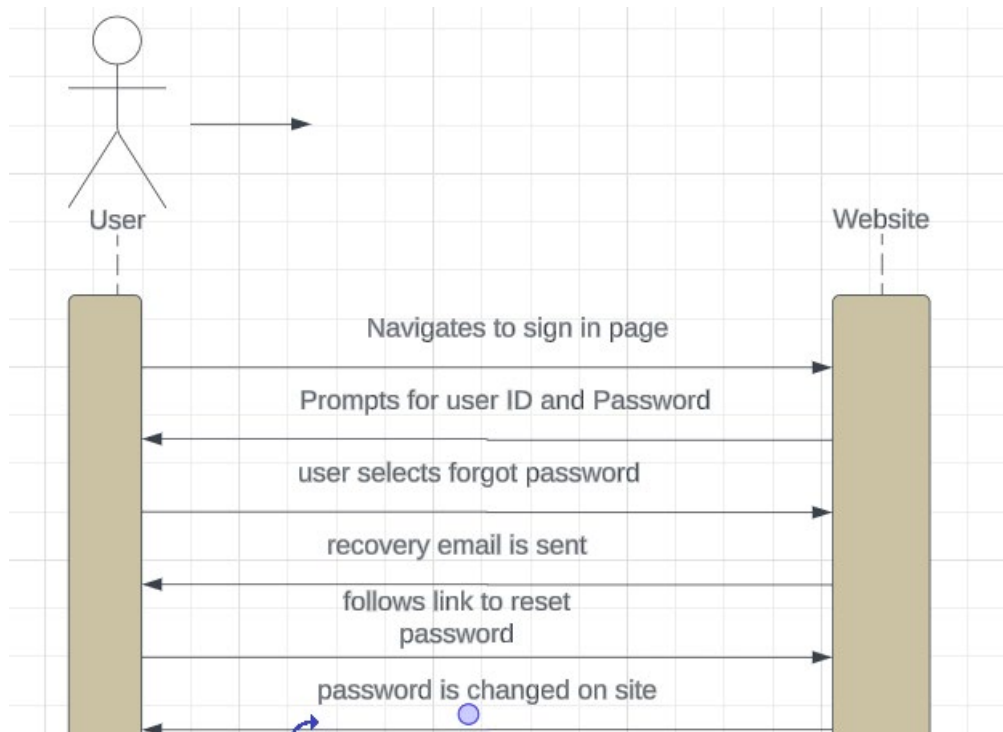
Use case description 19: Admin grant access

Use Case Name: Admin grant access		ID: 13	Importance Level: High
Primary Actor: Website Admin		Use Case Type: Detail, Essential	
Stakeholders and Interests: • **Website User:** Needs login link to access the site for the first time • **Website Admin:** Wants to ensure site is kept secure from non-authorized users. 			
Brief Description: This use case describes how an admin can grant a specified user access to the site			
Trigger: Admin clicks on 'Invite guest" button in the account management tab			

Type: External

Relationships:

    Association: Website admin

    Include: Forgot Password (to set password initially)

    Extend:

    Generalization: Manage account security

Normal Flow of Events:

1. The admin logs onto GuideBook Pro with an admin specific log in.
2. The admin navigates to the account management tab.
3. Admin selects "Add account" button.
4. Admin enters desired recepients email address in the entry box.
5. Admin selects "invite guest" button.

SubFlows:

- *None Identified*

Alternate/Exceptional Flows:

    1a. Admin is unable to gain access due to not having admin specific account.

    2a. Admin does not know email address of client that is receiving invite.

Sequence Diagram use case 19:
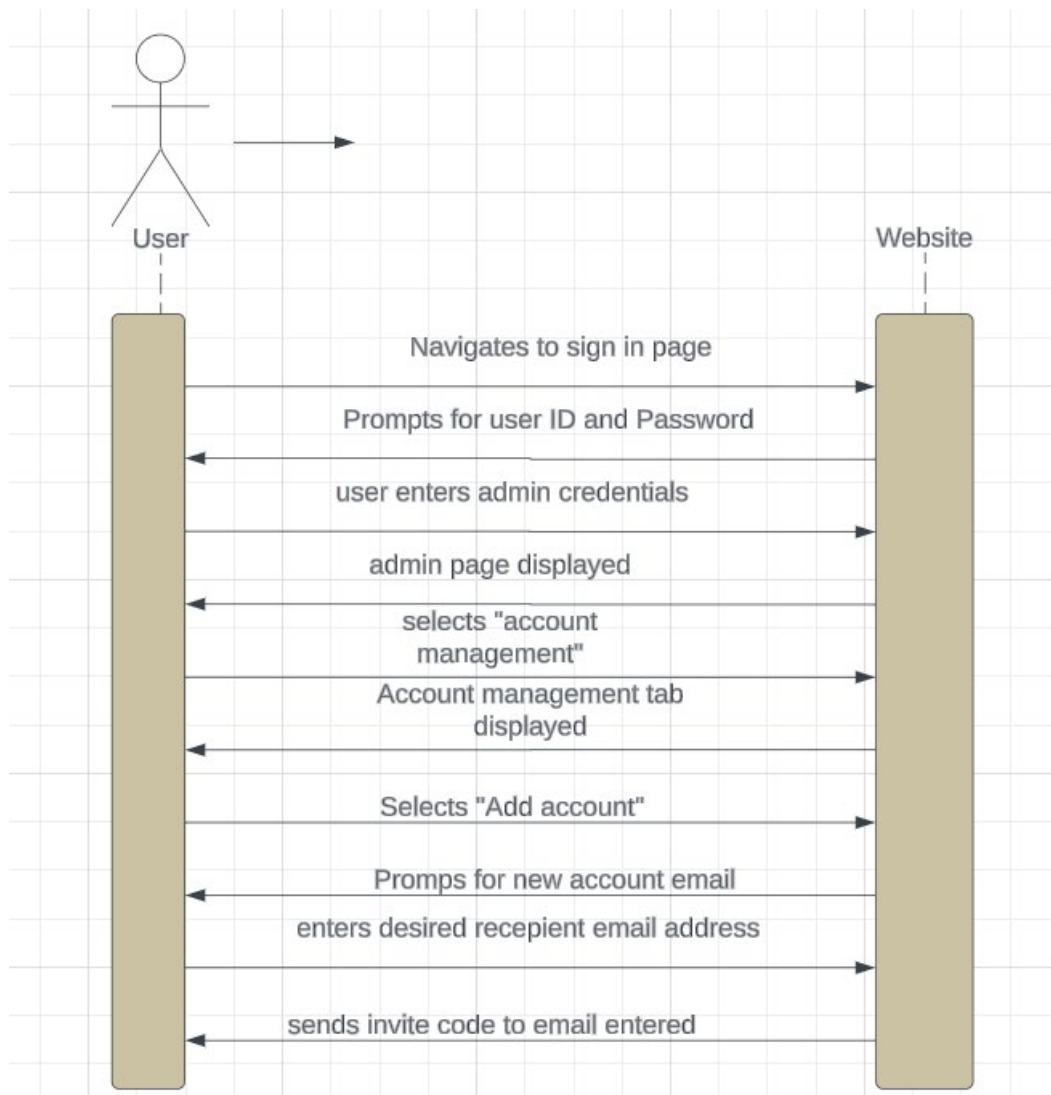
Use case 13, 18, 19 :

Use case diagram
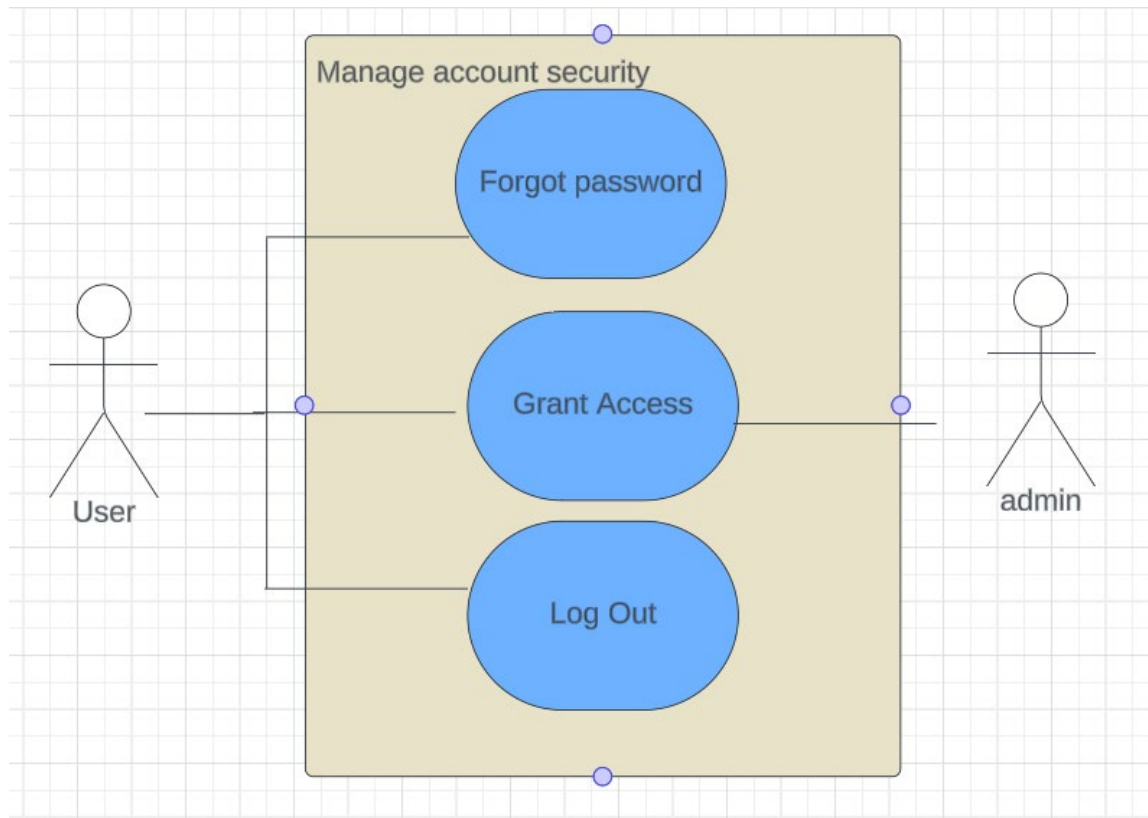
Use Case Diagram Narrative

This diagram shows how a user receives access to the site, and the process of logging out of the site. A user will recieve access to the site through an admin link, which will redirect them to the sign in page of Guidebook Pro. They will then enter their username, and select the "forgot password" button, to create their password. Once the user has access, they can then navigate to the bottom of any page on the site and select "log out".

Use case 15 - 16:

Use case diagram
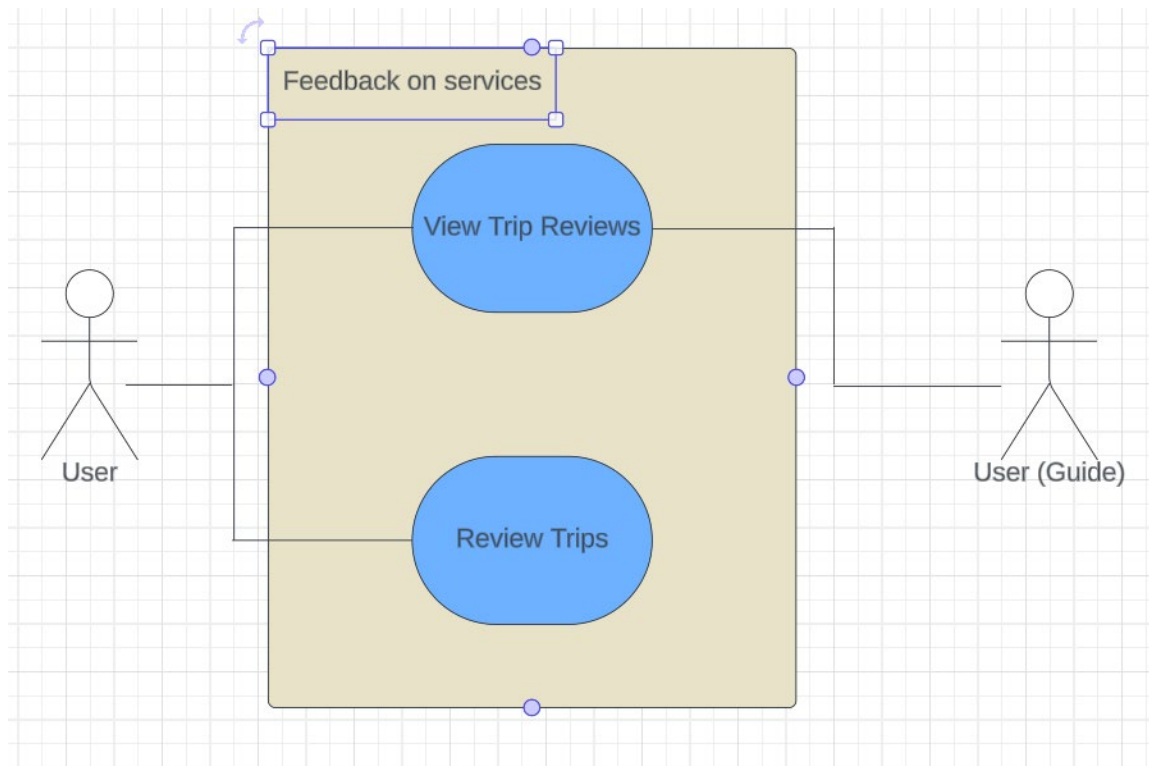
Use Case Diagram Narrative

This diagram shows the process of users, both guides and customers, viewing and writing trip reviews. A user will select a trip that they have taken prior and select "write a review". Once they have left their feedback, it will be displayed under the trip under the trip reviews. Other users and guides can then view the review under the trip reviews.

Use case 14, 17 :

Use case diagram
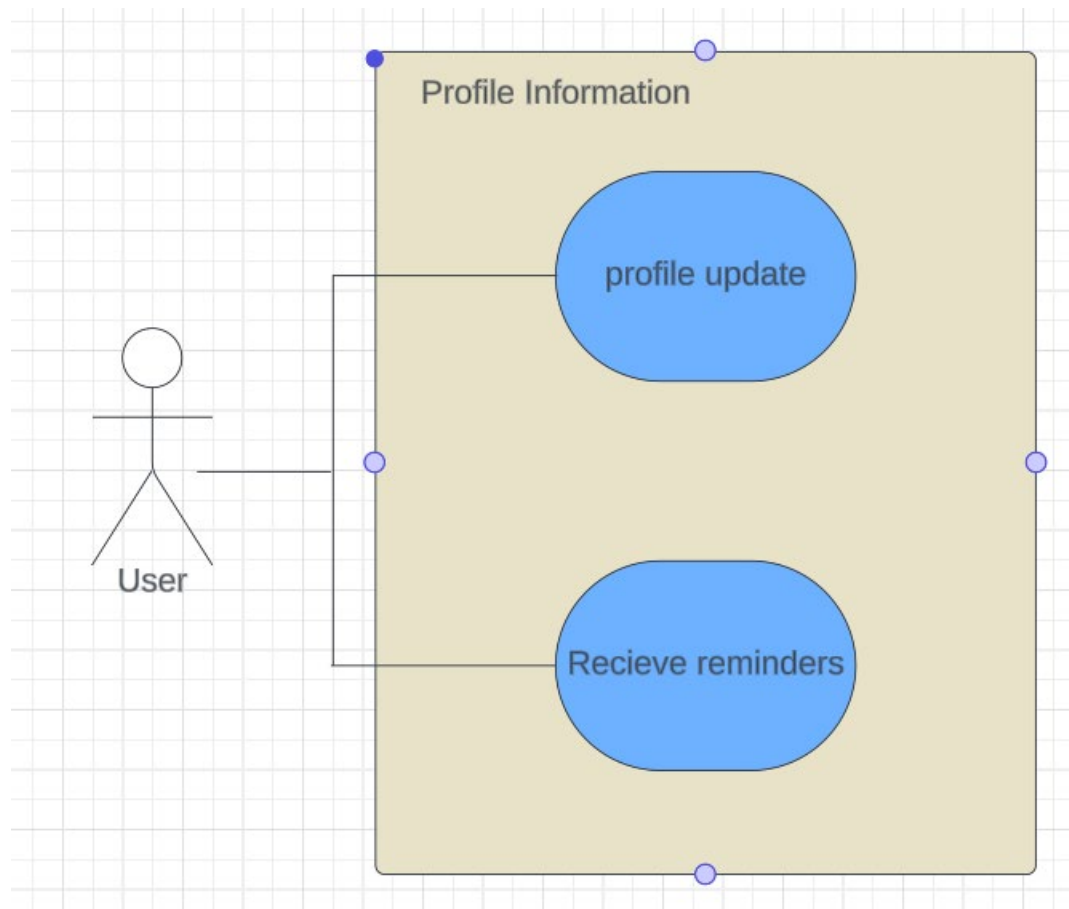
Use Case Diagram Narrative

This diagram shows how a user updates their profile and accesses their inbox to receive reminders. The user will first navigate to the "my profile" tab, and then select the "update profile" button. The user will then be able to update their personal profile information as desired. The "my profile" tab is also where the user can access their message inbox. The user will select the "inbox" button, and will be able to view their reminders and confirmation messages sent to their inbox.

Use Case Description 20: Remove access

Use Case Name: Remove access	**ID**: 20	**Importance Level**: High
Primary Actor: Administrator		**Use Case Type**: Detail, Essential

Stakeholders and Interests:
Administrator: The administrator has a desire to remove a user from the website.   ***User:*** Users that either cannot remove their own access from the website or are no longer desired should be removed.
Brief Description: Admin will remove access from account, removing privileges permitted to subscribers.
Trigger: Administrator selected the 'Remove User Access' button inside the 'Manage User' panel. **Type**: External

Relationships:
 	
    Association: Administrator
 	
    Include:
 	
    Extend:
 	
    Generalization: User Database in the Administrative Panel

Normal Flow of Events: 1. The administrator logs onto the website.

2. The administrator enters the Administrative Panel.

3. The administrator chooses 'User Database' in the navigation panel of the Administrative Panel.

4. The administrator selects the 'Manage' button next to the appropriate user.

5. The administrator enters the 'Membership Status' section of the navigation panel on the 'Manage User' menu.

6. The administrator selects the 'Remove User Access' button.

SubFlows:

Alternate/Exceptional Flows:

1a. The 'administrator' is not actually associated with Guide Book, even as a user and lacks login information.

2a. The 'administrator' is not actually an administrator and is not authenticated to enter.

4a. The administrator cannot select 'Manage' as there are no users currently present in the system.

Use Case Diagram 20:
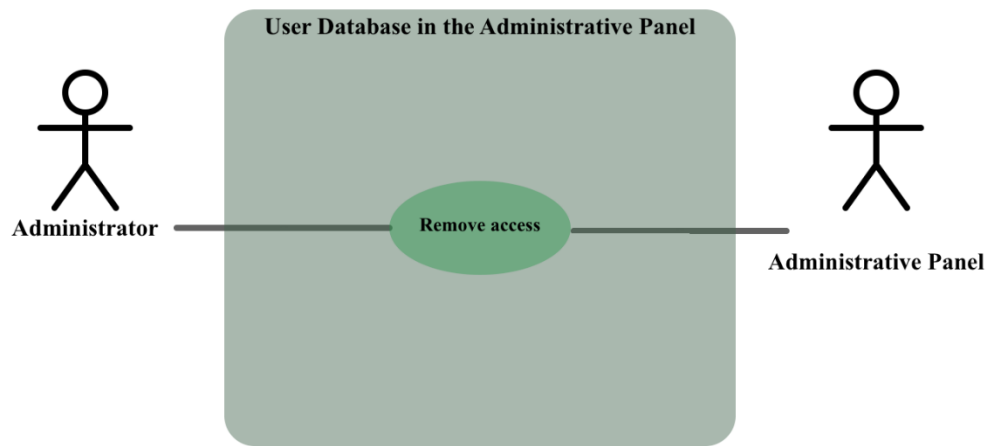
The diagram presents an interaction between the 'Administrator' and the 'Administrative Panel'. The Administrator interacts with the 'User Database' section of the Administrative Panel. Their goal is to send either a 'Remove access' request to the Administrative Panel. This request is associated with a specific user of the website, and the request is taken out against the appropriate user upon being received by the Administrative Panel.

Sequence Diagram 20:

Remove Access in the Administrative Panel

Administrator

Website

Administrative Panel

RemoveAccess(UserSelection)

Remove Request Sent

Admin Notified (Success)

Access Removed

Alternative

Error Notification

No user available to remove.

Use Case Description 21: Upload trips

| Use Case Name: Upload trips	ID: 21	Importance Level: High
Primary Actor: Administrator		Use Case Type: Detail, Essential
Stakeholders and Interests: • *Administrator:* The administrator wants to upload a new trip to the database. • *Guide:*.Guides want their services to be listed for customers. • *User:* Users want trips to be available to book.		
Brief Description: Admin will upload new trip listings to the website.		
Trigger: Administrator selects the 'Add New Listing' button on the 'Manage Listings' section of the Administrative Panel. **Type**: External		
Relationships: *Association:* Administrator *Include:* Edit trip details *Extend:* *Generalization:* Manage Listings in the Administrative Panel		
Normal Flow of Events: 1. The administrator logs onto the website. 2. The administrator enters the Administrative Panel. 3. The administrator chooses 'Manage Listings' in the navigation panel of the		

Administrative Panel.

4. The administrator selects 'Add New Listing' above the current trips.
5. The administrator enters trip details into all required fields, across the different categories in the 'Add Listing' menu.
6. The administrator selects the 'Add Trip' button.

SubFlows:

Alternate/Exceptional Flows:

1a. The 'administrator' is not actually associated with Guide Book, even as a user and lacks login information.

2a. The 'administrator' is not actually an administrator and is not authenticated to enter.

6a. The administrator cannot select 'Add Trip' due to their inputs not satisfying the listing requirements.

Use Case Description 22: Edit trip details

Use Case Name: Edit trip details	ID: 22	Importance Level: Medium
Primary Actor: Administrator		Use Case Type: Detail, Essential
Stakeholders and Interests: • *Administrator:* The administrator wants to correct/update information for a trip. • *Guide:* Guides want their listed services to be displayed accurately to users. • *User:* Users do not want to be presented with inaccurate information.		
Brief Description: Admin will edit trip details based on guide's most up to date information.		
Trigger:. Administrator will press the 'View/Edit' button in the 'Manage Listings' section of the Administrative Panel.		

Type: External

Relationships:

    Association: Administrator

    Include: Remove trips

    Extend:

    Generalization: Manage Listings in the Administrative Panel

Normal Flow of Events:

1. The administrator logs onto the website.
2. The administrator enters the Administrative Panel.
3. The administrator chooses 'Manage Listings' in the navigation panel of the Administrative Panel.
4. The administrator selects the 'View/Edit' button next to the desired trip.
5. The administrator makes the desired changes to the data fields regarding the trip.
6. The administrator selects the 'Save Changes' button.

SubFlows:

Alternate/Exceptional Flows:

1a. The 'administrator' is not actually associated with Guide Book, even as a user and lacks login information.

2a. The 'administrator' is not actually an administrator and is not authenticated to enter.

4a. The administrator cannot select 'View/Edit' as there are no trips currently listed.

6a. The administrator cannot select 'Save Changes' due to their inputs not satisfying the listing requirements.

Use Case Description 23: Remove trips

Use Case Name: Remove trips	**ID**: 23	**Importance Level**: High
Primary Actor: Administrator		**Use Case Type**: Detail, Essential

Stakeholders and Interests:

- *Administrator:* An administrator wants to remove a service that is no longer offered.
- *Guide:* Guides do not want services that they are not offering to be presented to users.
- *User:* Users do not want to be convinced of the availability of a service that is not being offered.

Brief Description: Admin will remove trip altogether when it's no longer offered.

Trigger: Administrator will press the 'Remove' button in the 'Remove Listing' section of the 'Edit Listing' menu.

Type: External

Relationships:

  Association: Administrator

  Include:

  Extend: Edit trip details

  Generalization: Manage Listings in the Administrative Panel

Normal Flow of Events:

1. The administrator logs onto the website.
2. The administrator enters the Administrative Panel.
3. The administrator chooses 'Manage Listings' in the navigation panel of the Administrative Panel.
4. The administrator selects the 'View/Edit' button next to the desired trip.
5. The administrator selects the 'Remove Listing' button in the navigation bar of the 'Edit

Listing' menu.

6. The administrator will select 'Remove' in the warning pop-up to confirm their decision.

SubFlows:

4-1. The administrator selects the 'Delete' button overlayed on the trip's associated photo.

5-1. The administrator exercised event 4-1 instead of 4, leading them to event 6 instead of event 5.

Alternate/Exceptional Flows:

1a. The 'administrator' is not actually associated with Guide Book, even as a user and lacks login information.

2a. The 'administrator' is not actually an administrator and is not authenticated to enter.

4a. The administrator cannot select 'View/Edit' as there are no trips currently listed.

4-1a. The administrator cannot select 'Delete' as there are no trips currently listed.

Use-Case Diagram 21-23:
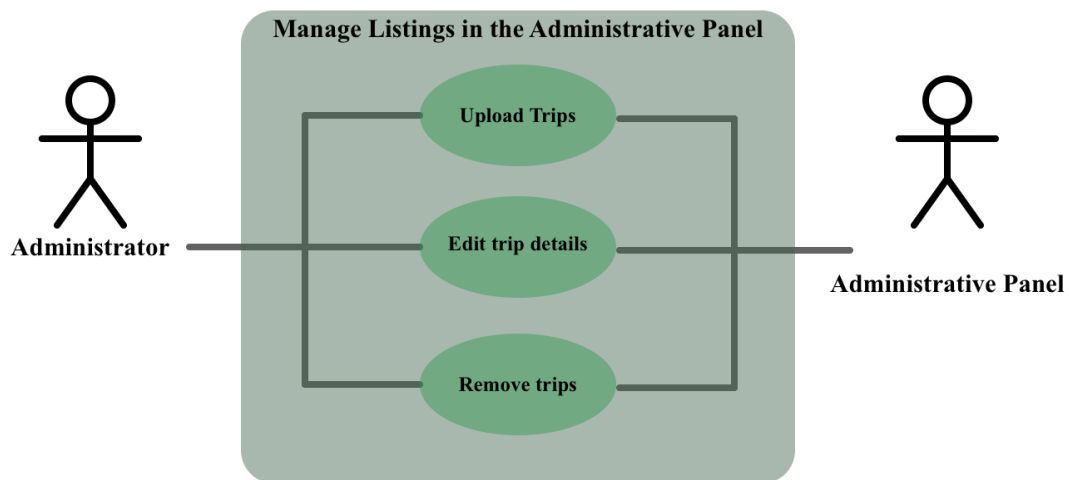
The diagram presents an interaction between the 'Administrator' and the 'Administrative Panel'. The Administrator interacts with the 'Manage Listings' section of the Administrative Panel. Their goal is to send either an 'Upload Trips', 'Edit trip details', or 'Remove trips' request to the Administrative Panel. An Upload Trips request contains the data that the Administrator desires to use for creating a new trip. The request is completed upon being received by the Administrative Panel, and a new listing with the corresponding information is created. An 'Edit

trip details' request works similarly, except with the request being associated with a pre-existing listing, and the existing data for this listing being overwritten by the contents of the request. A 'Remove trips' request also has an association with an existing trip, although no other data is included and the matching listing is deleted.

Sequence Diagram:

Create, Edit, & Delete Listings in the Administrative Panel

Use Case Description 24: Create personalized messages

Use Case Name: Create personalized messages	**ID**: 24	**Importance Level**: Medium
Primary Actor: Administrator		**Use Case Type**: Detail, Essential
Stakeholders and Interests: • **_Administrator:_** An administrator wants to create personalized messages for users to receive. • **_User:_** Users want to feel like they are being properly communicated with.		
Brief Description: Admin will create messages which will automatically be displayed at various points throughout the client's experience.		

Trigger: Administrator will press the 'Add new message' button in the 'Personalized Messages' menu of the Administrative Panel's Automation section.

Type: External

Relationships:

    Association: Administrator

    Include:

    Extend:

    Generalization: Automation in the Administrative Panel

Normal Flow of Events:

1. The administrator logs onto the website.
2. The administrator enters the Administrative Panel.
3. The administrator chooses 'Automation' in the navigation panel of the Administrative Panel.
4. The administrator selects the 'Add new message' button under the currently existing messages.
5. The administrator enters the desired details and settings for the message.
6. The administrator selects 'Add Message'.

SubFlows:

Alternate/Exceptional Flows:

1a. The 'administrator' is not actually associated with Guide Book, even as a user and lacks login information.

2a. The 'administrator' is not actually an administrator and is not authenticated to enter.

6a. The administrator cannot select 'Add Message due to their input not satisfying requirements.

Use Case Description 26: Set reminder email interval

Use Case Name: Set reminder email interval	**ID**: 26	**Importance Level**: Medium
Primary Actor: Administrator		**Use Case Type**: Detail, Essential

Stakeholders and Interests:

- *Administrator:* An administrator wants to set the interval for email reminders.
- *Guide:* Guides want their customers to be properly aware of when their trip will take place.
- *User:* Users do not want to possibly forget when it is time to attend their trip.

Brief Description: Admin will determine when and how often a trip reminder should be sent to clients that have booked a trip.

Trigger: Administrator will press the 'Add new reminder' button in the 'Trip Reminder' menu of the Administrative Panel's Automation section.

Type: External

Relationships:

Association: Administrator

Include:

Extend:

Generalization: Automation in the Administrative Panel

Normal Flow of Events:

1. The administrator logs onto the website.
2. The administrator enters the Administrative Panel.
3. The administrator chooses 'Automation' in the navigation panel of the Administrative Panel.
4. The administrator selects the 'Trip Reminder' section of the Automation menu.
5. The administrator selects the 'Add new reminder button under the currently existing reminders.

6. The administrator enters the desired details for the reminder.

7. The administrator selects 'Add Reminder.

SubFlows:

Alternate/Exceptional Flows:

1a. The 'administrator' is not actually associated with Guide Book, even as a user and lacks login information.

2a. The 'administrator' is not actually an administrator and is not authenticated to enter.

7a. The administrator cannot select 'Add Reminder' due to their input not satisfying requirements.

Use-Case Diagram 24 & 26:
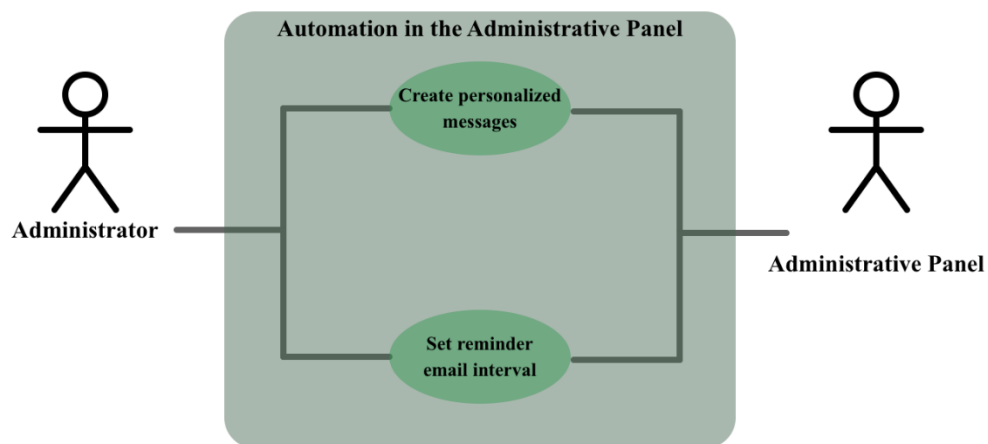
The diagram presents an interaction between the 'Administrator' and the 'Administrative Panel'. The Administrator interacts with the 'Automation' section of the Administrative Panel. Their goal is to send either a 'Create personalized messages' or 'Set reminder email interval' request to the Administrative Panel. A 'Create personalized messages' request contains data to determine the target(s) of the message, a unique identification number, and the contents of the message itself. A 'Set reminder email interval' request contains data determining whether the

automated reminder will be enabled/disabled upon creation, the number of days before a user's trip to push the email, and a unique identification number.

Sequence Diagram:

Create Personalized Messages & Set Email Reminders in the Administrative Panel

Use Case Description 25: View survey contents

Use Case Name: View survey contents	ID: 25	Importance Level: Medium
Primary Actor: Administrator		Use Case Type: Detail, Essential
Stakeholders and Interests: • **Administrator:** An administrator wants to view the data from a survey • **Guide:** Guides want to be informed of what types of services are most in demand.		
Brief Description: Admin views results from surveys for accurate inventory selection for future guides and trips.		
Trigger:. Administrator presses the 'Feedback' button on the navigator for the Administrative Panel.		

Type: External

Relationships:
 	
    Association: Administrator
 	
    Include:
 	
    Extend:
 	
    Generalization: Feedback in the Administrative Panel

Normal Flow of Events: 1. The administrator logs onto the website. 2. The administrator enters the Administrative Panel. 3. The administrator chooses 'Feedback' in the navigation panel of the Administrative Panel.
SubFlows: 3-1. The administrator selects the '>' button to display the next survey.
Alternate/Exceptional Flows: 1a. The 'administrator' is not actually associated with Guide Book, even as a user and lacks login information. 2a. The 'administrator' is not actually an administrator and is not authenticated to enter. 3-1a. The administrator cannot use the '>' button due to only one survey being present in the system.

Use-Case Diagram:

Feedback in the Administrative Panel

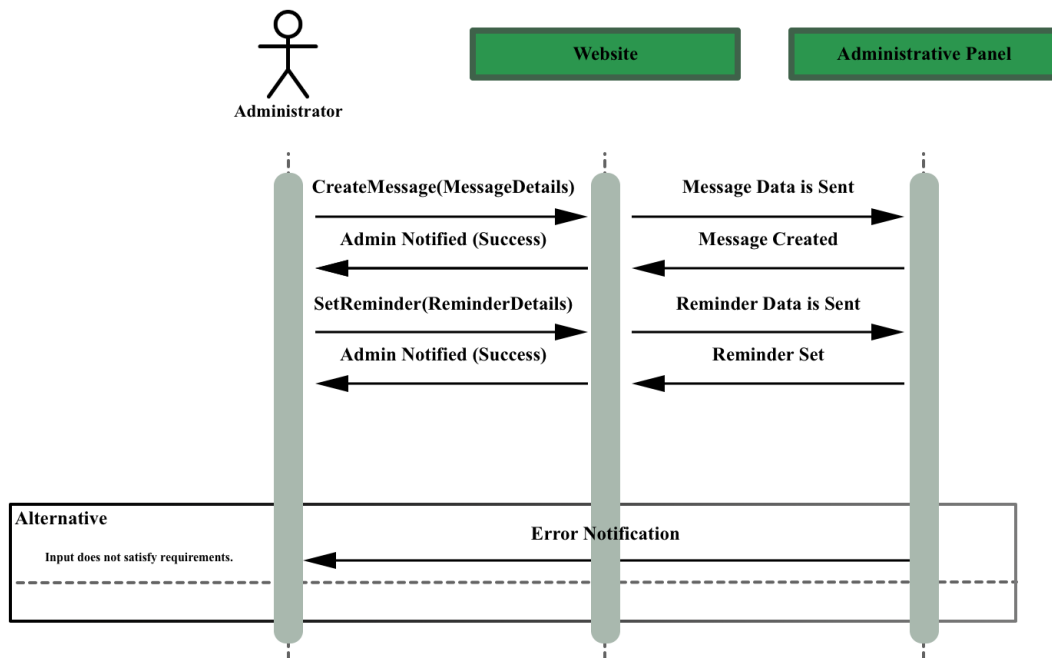Administrator — View survey contents — Administrative Panel

The diagram presents an interaction between the 'Administrator' and the 'Administrative Panel'. The Administrator interacts with the 'Feedback' section of the Administrative Panel. Their goal is to send a 'View survey contents' request to the Administrative Panel. The request is associated with an existing survey, and the corresponding data is then pulled and formatted to be presented back to the Administrator.

Sequence Diagram:

Check Survey Contents in the Administrative Panel
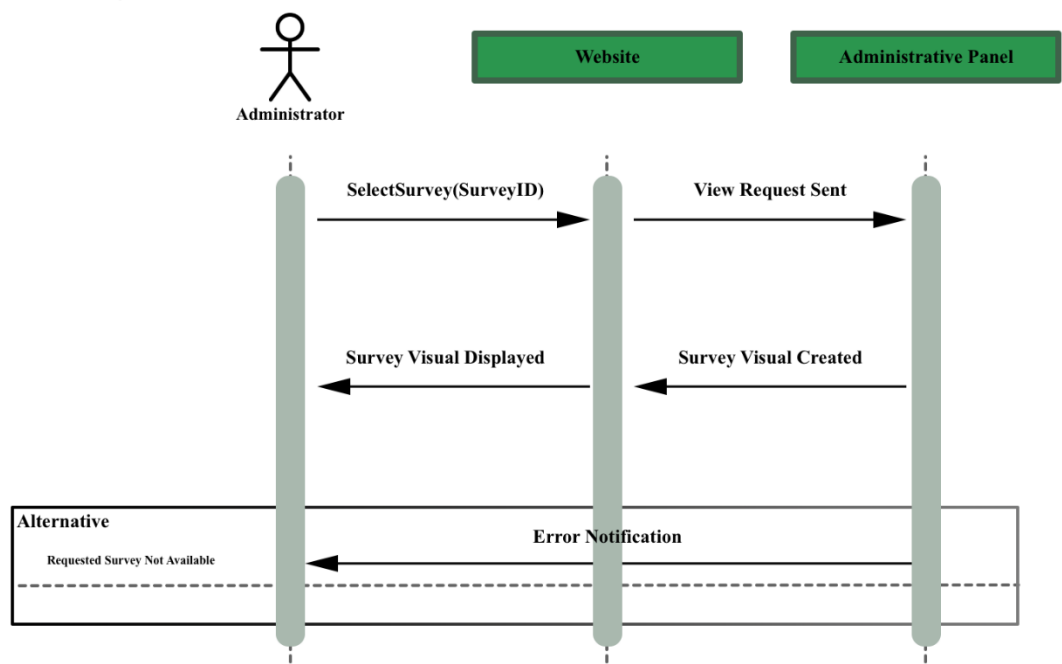
Use Case 27: Send Registration Link

Use Case Name: Send Registration Link	ID: 27	Importance Level: High

Primary Actor: Admin	**Use Case Type**: detail, essential

Stakeholders and Interests:

Founders (Ben Roberson and Stuart Jordan) – requiring a secure way to prompt invited clients to sign in and begin using their services

Customer Experience Director (Alyx Parks) - requiring a secure yet polished way to make a good first impression
 Client - needing a way to navigate to the login screen and create their account

Brief Description: Admin will send a registration link to selected customers

Trigger: Manual invitation process by system owners including email and access management

Type: external

Relationships:

     Association: Administrators

     Association: Website users

     Include: User credential creation

     Include: Payment submission

     Extend:

     Generalization:

Normal Flow of Events:

1. The admin granting access will create user credentials for the selected client
2. The client will receive the credentials and use them to sign in for the first time

SubFlows:

1. The client will be required to make a permanent password
2. The client will then be prompted for payment which is required to complete the account creation

3. The client will then be directed to the splash screen for the website once payment is accepted

Alternate/Exceptional Flows:

 1. The user will not complete submitting the payment and the account will not be permitted to continue to the site

2. The user will not finish creating their account and will not be allowed to continue to payment or the rest of the system

Use Case 27:
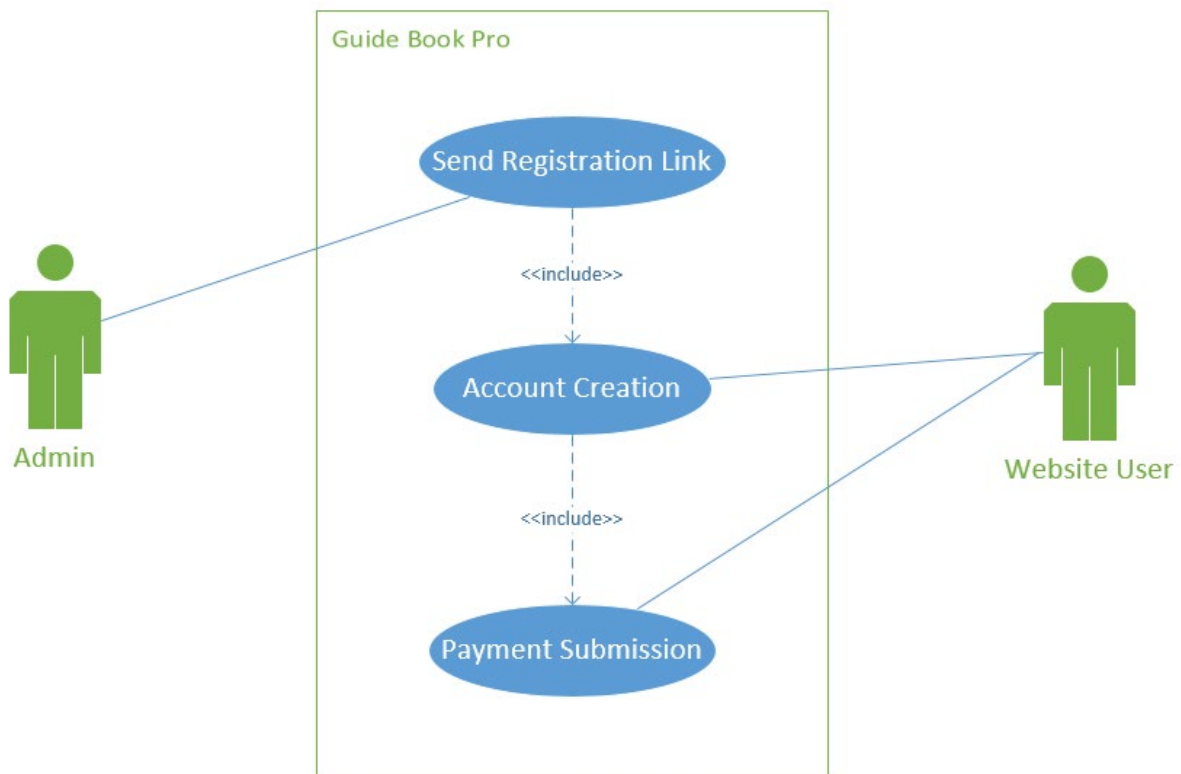
Sequence Diagram:
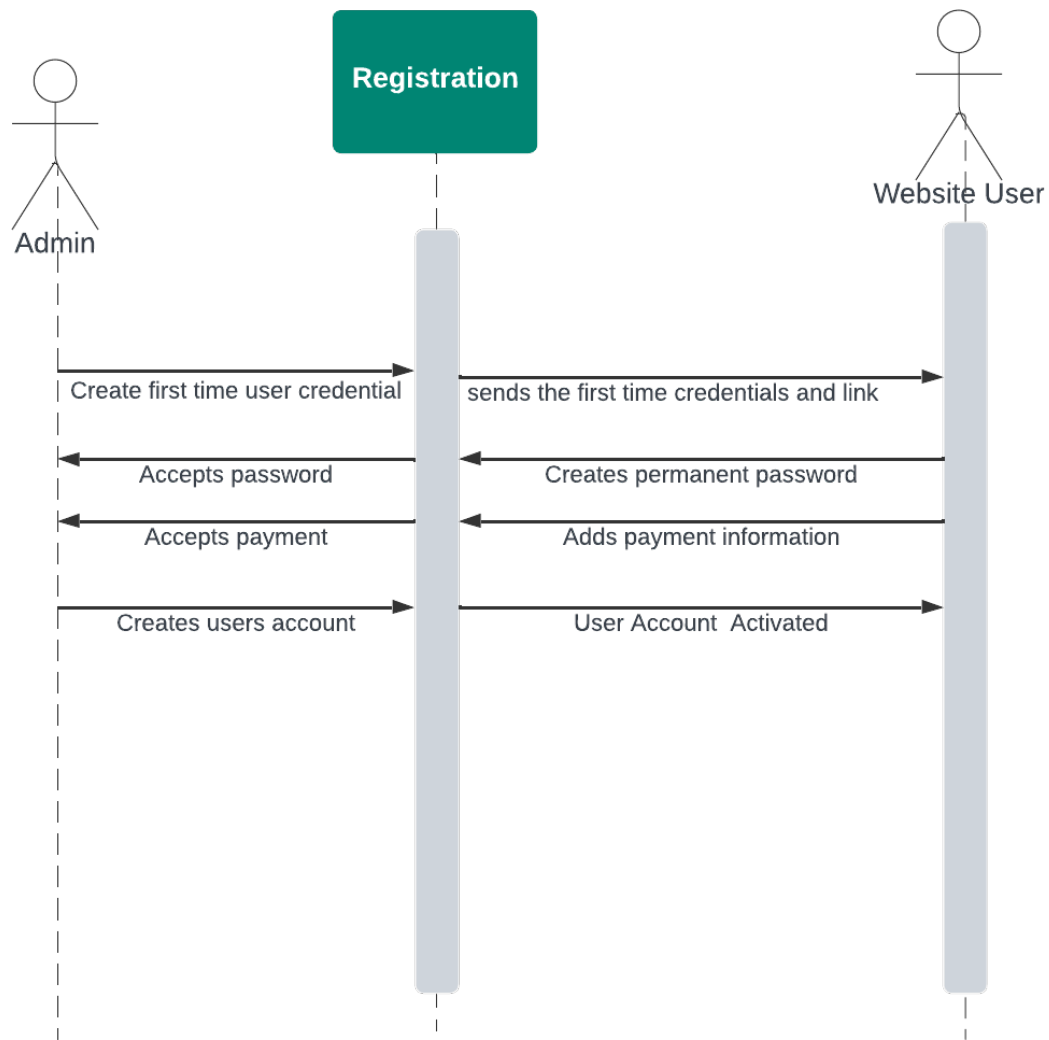
Use Case 28: Submit Feedback Form

Use Case Name: Submit Feedback Form	ID: 28	Importance Level: Low
Primary Actor: Website User		Use Case Type: detail, essential
Stakeholders and Interests: Founders (Ben Roberson and Stuart Jordan) – requiring a way to make reviews submitted by previous customers visible for clients		

Customer Experience Director (Alyx Parks) - needing a channel to review experiences and overall satisfaction

Guides - needing a way to review structured responses from clients

Client – needing a way to express notably positive or negative experiences

Brief Description: User will be given the opportunity to leave feedback for both guides and Guide Book to review, as an overall experience review once the trip has been completed.

Trigger: The end date of a booked date passes, indicating a trip was completed

Type: internal

Relationships:

Association: Website user

Include:

Extend:

Generalization:

Normal Flow of Events:

1. Client has completed a trip, and logs into the site to view more offerings
2. Client is prompted with a message box with a few questions and asks for a rating to be given
3. Client can submit the form and continue browsing the site

SubFlows:

Alternate/Exceptional Flows:

1. The client chooses not to submit the form and does not leave a review

Use case Diagram 28:

Guide Book Pro

Website User

Submit Feedback Form

Sequence Diagram:
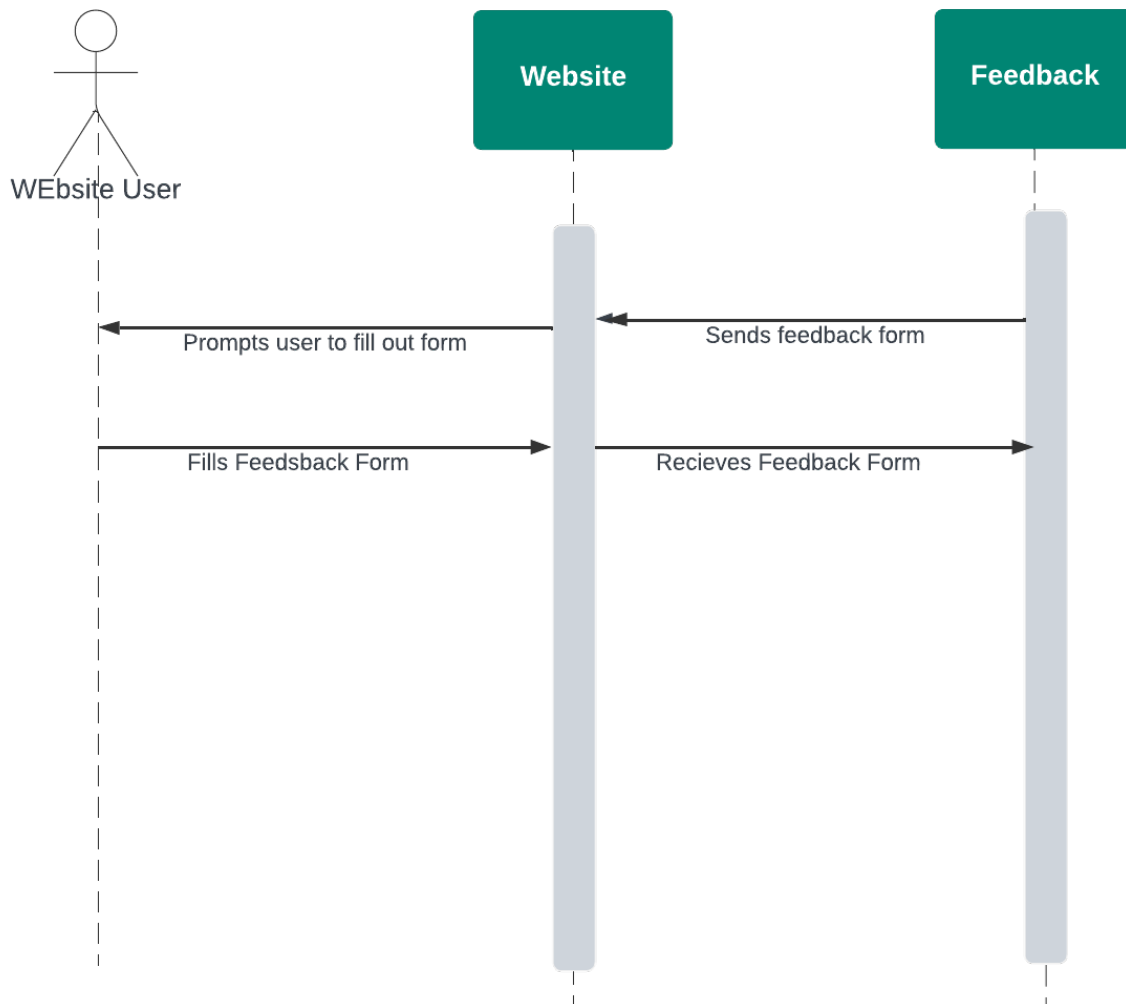
Use Case 29: View Subscription Status

Use Case Name: View subscription status	ID: 29	Importance Level: High
Primary Actor: Website user		Use Case Type: detail, essential
Stakeholders and Interests: Customer Experience Director (Alyx Parks) - requiring a way for subscription information to transparently be available for review Client – requiring a way to review subscription costs and make further renewal decisions		

Brief Description: Client will be able to view subscription details including the start and end date along with the date and cost of the next subscription if they allow it to renew
Trigger: Client clicks on subscription tab in user profile **Type**: External

Relationships:
 	
    Association: Website user
 	
    Include:
 	
    Extend: Cancellation of subscription
 	
    Generalization:

Normal Flow of Events: 1. Client navigates to user profile 2. Client clicks on subscription tab 3. Client reviews subscription information, which would include key dates like the end date for active subscription along with costs for renewal
SubFlows: 1. User can choose to cancel subscription or continue browsing based on decision regarding renewal
Alternate/Exceptional Flows:

Use Case 30: Cancel Subscription

Use Case Name: Cancel Subscription	ID: 30	Importance Level: High
Primary Actor: Website User		**Use Case Type**: detail, essential
Stakeholders and Interests:		

Founders (Ben Roberson and Stuart Jordan) – requiring a way for clients to terminate their subscription Client – needing a way to cancel subscription and stop future renewal fees
Brief Description: Clients will be able to cancel reoccurring subscription within the profile options
Trigger: Client clicks on the cancel subscription button **Type**: External

Relationships:
 	
    Association: Website user
 	
    Include: Access termination
 	
    Extend:
 	
    Generalization:

Normal Flow of Events:
 	
  1. User navigates to profile tab
  2. User selects subscription option
  3. User hits "cancel subscription"
  4. User is notified when access to the system will be terminated

SubFlows: 1. System sees active subscription is being cancelled which updates access termination date
Alternate/Exceptional Flows:

Use Cases Diagram 29 & 30:

Guide Book Pro

View Subscription Status

Cancel Subscription

Website User
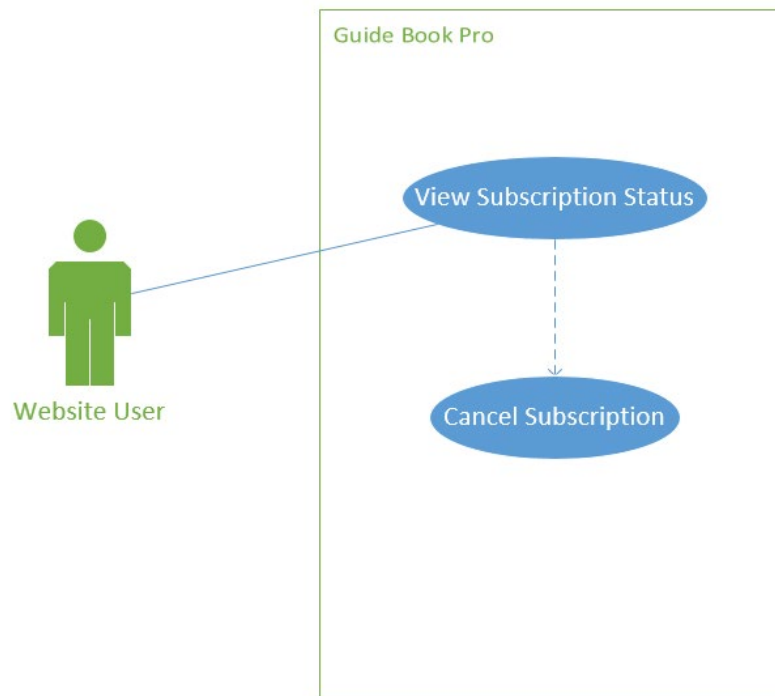
Sequence Diagram:
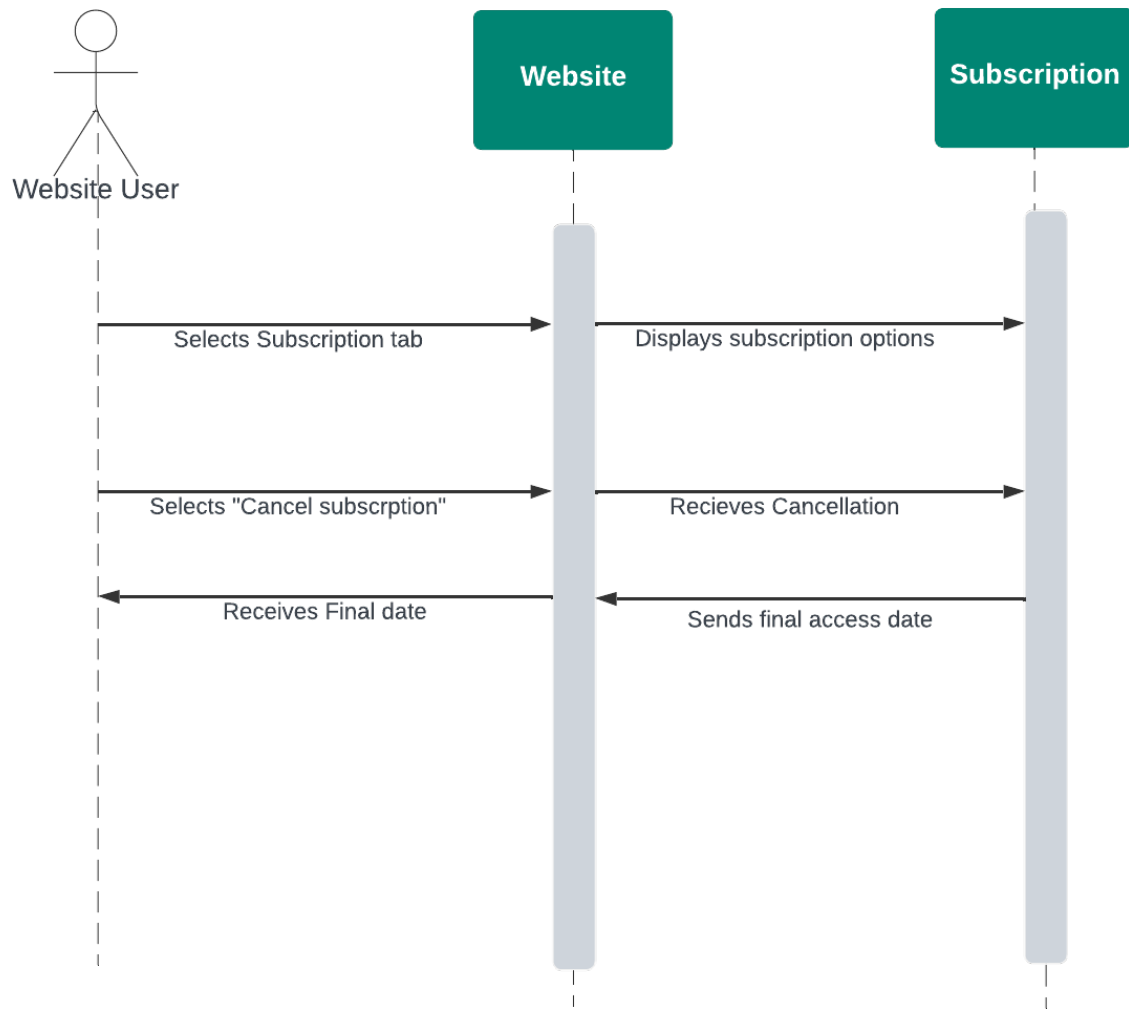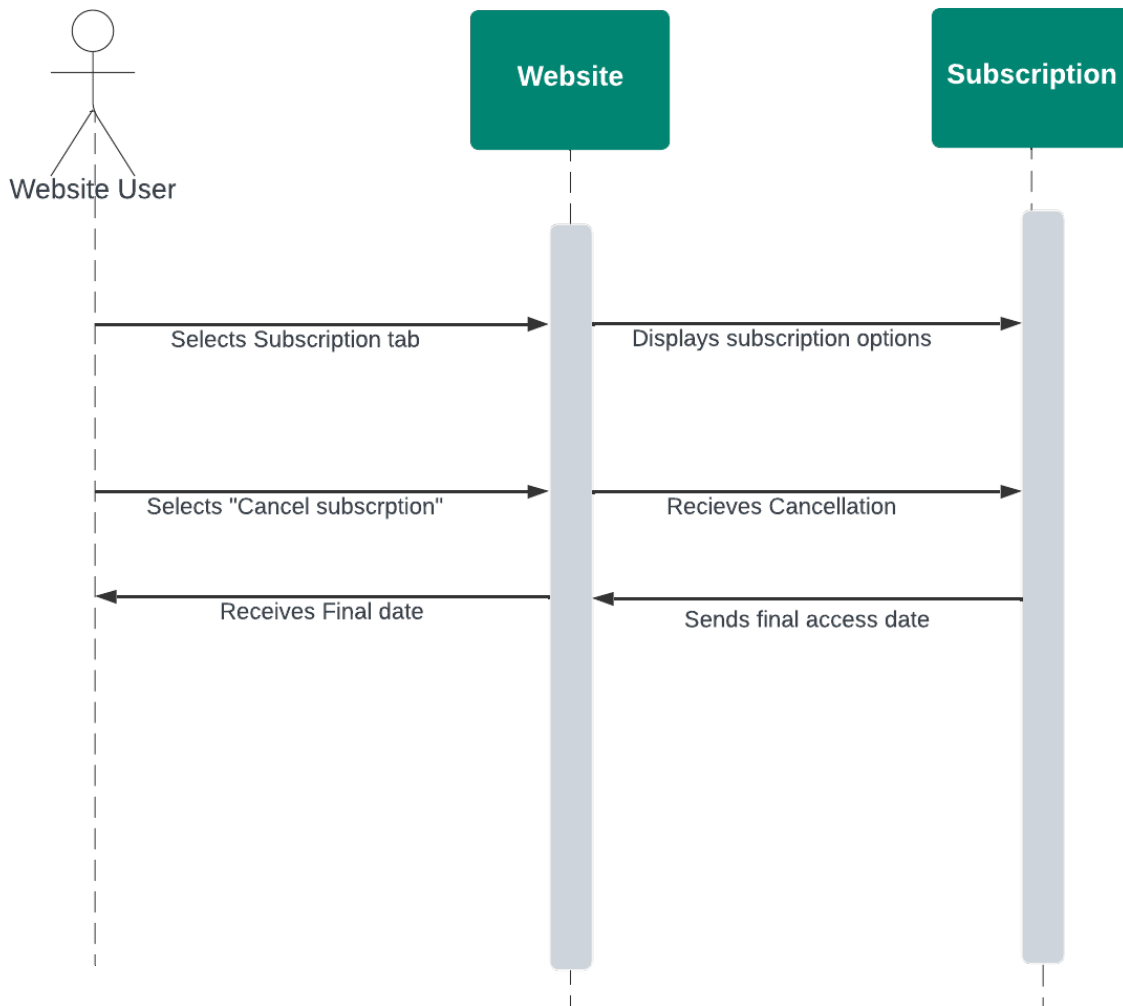
Use Case 31: Enter Profile Info

Use Case Name: Enter Profile Info	ID: 31	Importance Level: Low
Primary Actor: Website user		Use Case Type: detail, essential
Stakeholders and Interests: Customer Experience Director (Alyx Parks) - wanting to provide a way for clients to add information that makes them unique and customize their experience Client – wanting a way to personalize their experience and convey their personality to guides who may view their profile after a booking		

Brief Description: User will be able to input contact information about themselves including display name and a short description of themself

Trigger: User opens the about me section of their profile

Type: External

Relationships:

> *Association: website user*

> *Include:*

> *Extend:*

> *Generalization:*

Normal Flow of Events:

1. User opens the user profile section of the website
2. User selects "About me" tab
3. User inputs or edits data such as contact info or display name

SubFlows:

Alternate/Exceptional Flows:

1. User closes the tab without making changes

Use Case Diagram 31:

Guide Book Pro

Enter Profile Information

Website User
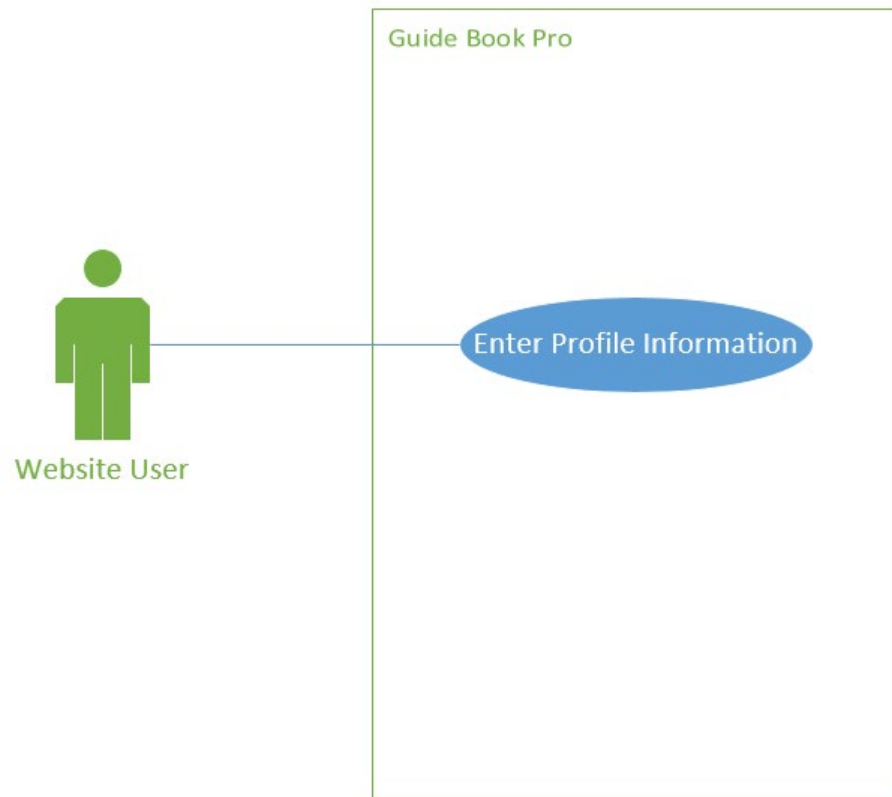
Sequence Diagram:
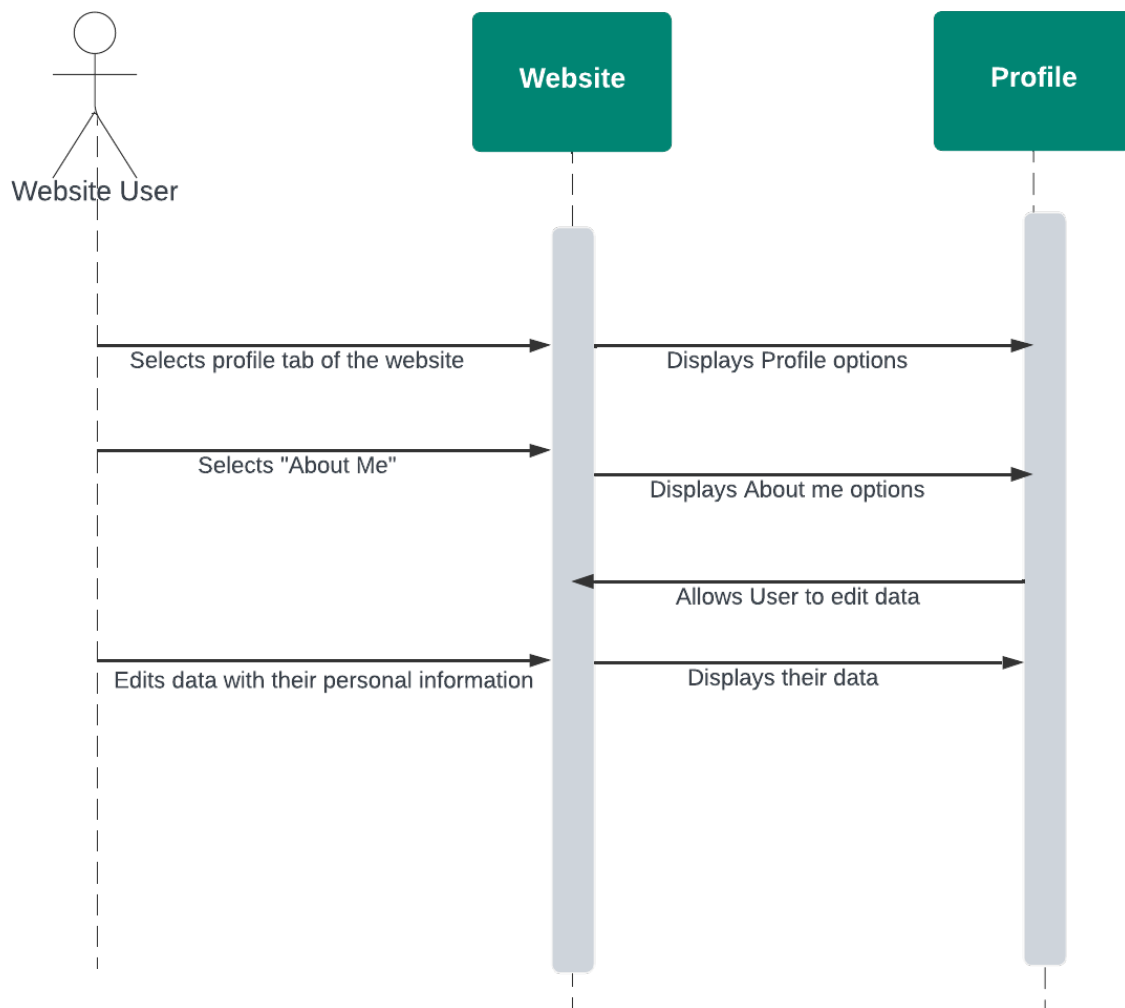
Use Case 32: Privacy Settings

Use Case Name: Privacy Settings	ID: 32	Importance Level: High
Primary Actor: Website user		Use Case Type: detail, essential
Stakeholders and Interests: Founders (Ben Roberson and Stuart Jordan) – needing a way to prompt clients to consent to data collection for insight into site website traffic Clients - needing a way to consent or object to data collection for marketing and functional purposes		

Brief Description: User will view how the website collects, uses, and protects user's data.

Trigger: On first sign in there will be a privacy message box which prompts for further review and selection

Type: Internal

Relationships:

Association: Website user

Include:

Extend:

Generalization:

Normal Flow of Events:

1. Client will sign in to system
2. Website will recognize visitors which do not have any associated browser data and prompt for privacy settings selection
3. Client will make selection based on personal preferences related to data sharing and marketing
4. Once selections are made, the privacy selections will permit or decline the collection of cookies and other browsing data

SubFlows:

Alternate/Exceptional Flows:

1. Users will proceed without making selections which will prompt the system to collect minimal data and prevent collection that may require prior consent

Use Case Diagram 32:

Guide Book Pro

Adjust Privacy Settings

Website User

Sequence Diagram:

Website User

Website

Privacy Setting

Client Logs into system

Recognize which do not have any associated browser data

DIsplays settiing selections

Prompts privacy setting selection

Selects privacy setting options

Receives Options

permit or decline collection of cookies and other data

3.Trace Matrix

Sytem Requirements

Use Cases / System Requirements	Activate Account	Login to website	Website tutorial	Filter by location	Filter by species	Filter by technique	View available dates	Add selection to cart	Receive personalized messages	Pay for selected trip	Receive booking confirmation	Complete interest survey	Logging out	Receive Reminder	Review Fishing Trip	View Trip Reviews	Update Profile Information	Forgotten Password	Grant access	Remove access	Upload trips	Edit trip details	Remove trips	Create personalized messages	View survey contents	Set reminder email interval	Send Registration Link	Submit Feeback Form	View Subscription Status	Cancel Subscription	Enter Profile Information	Adjust Privacy Settings
ID:SR001- The login page will allow users to enter account credentials		x											x																			
ID:SR002- The login page will allow users to recover a forgotten password		x																x														
ID:SR003- The login page will allow users to return to the previous page		x																														
ID:SR004- CMS automated messaging system will allow users to receive a welcome message on first login									x																							
ID:SR005- CMS automated messaging system will allow admins to send reminder about upcoming trips to client's email inbox									x					x												x						
ID:SR006- CMS automated messaging system will allow users to receive a booking confirmation in their inbox											x																					
ID:SR007- CMS will allow users to receive a website tutorial on first log in			x																													
ID:SR008 - CMS will allow users to receive and complete interest survey												x																				
ID:SR009- CMS will allow admins to receive results of interest survey																									x							
ID:SR010- Trips page will allow admin to create trip listing and details																					x	x										
ID:SR011- Trips page will allow admin to remove trips and details																						x	x									
ID:SR012- Trips page will allow users to view available trips							x																									
ID:SR013- Trips page will allow users to select choices from trips available							x	x																								
ID:SR014- Trips page will allow users to review experiences with specific guides															x													x				
ID:SR015- Trips page will allow users to see reviews on guided trips																x																
ID:SR017- Trips page will allow users to filter trips by assorted criteria				x	x	x																										
ID:SR018- Accounts page will allow admins to send selected users a login code	x	x																				x					x					
ID:SR019- Accounts page will allow admins to create accounts for pro access																			x								x					
ID:SR020- Accounts page will allow admins to remove accounts from pro access																				x												
ID:SR021- Checkout page will allow users to enter card details										x																						
ID:SR022- Checkout page will allow users to confirm legal name										x																					x	
ID:SR023- Checkout page will allow users to confirm billing address										x																					x	
ID:SR024- Checkout page will allow users to submit payment for selected trips										x																						
ID:SR025- Account profile will enable clients to view subscription information																													x			
ID:SR026– Account profile will allow users to change their display name																	x															
ID:SR027– Account profile will allow users to change their contact information																	x															
ID:SR029– Account profile will allow users to view privacy statements																	x															
ID:SR031– Guide Book Pro will be accessible from the browser	x																															
ID:SR032– Filtering functions will support the scaling of inventory expected in the near future.				x	x	x																										
ID:SR034- Guide Book Pro will use website traffic analytics to develop recommendations in the appropriate fields of the website																																
ID:SR035– Guide Book Pro will reference ISO 9000 to ensure usability, reliability, maintainability, portability, etc for quality standards.		x								x														x	x	x					x	x

Link to matrix

4. Class Diagram
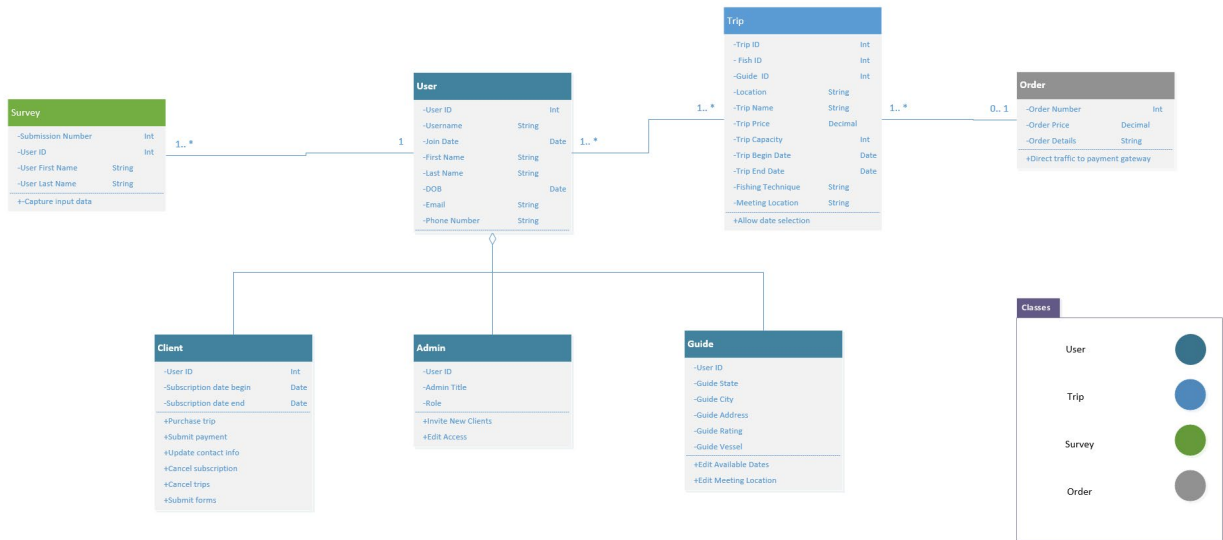
Class diagram link:

https://cardmaillouisville-
my.sharepoint.com/:u:/g/personal/ajrodr03_louisville_edu1/EZoRz30Vzr9KpDkdothXeB4B0a
6jYjcGRDiI5D_dY1OpyQ

Class Diagram Narrative

During this class diagram's development, use cases and prototype analysis were utilized to
understand and convey the interaction of objects in this system. Above we have displayed each
of them including each type of user, trip page, checkout page, payment gateway, and the
survey form. There are certain attributes that we are interested in seeing for each type of user,
like first name and last name, while types of users have more specific information like meeting
location, subscription status, or administrator role. As some types of users have different types
of data that is specific to them, they also have specific actions that they can perform.
Administrators of this system can edit access to user accounts, guides can adjust their
availability, users can purchase a subscription, and these are all examples of how each class is
different despite all being users of the system. Other key classes represent objects like survey
forms and the payment gateway, Stripe, which are critical to stakeholders of this system. The
survey form is available to clients and allows the system owners to capture information which
will help gauge interest in trips for accurate inventory control. The payment gateway is
embedded in the checkout page and captures payment information for secure transmission and
further payment processing, which is the final process before an order is confirmed.

5. Database Diagram

Fish
- PK Fish ID
- Fish Display Name
- Fish Scientific Name
- Fish Weight Minimum
- Fish Weight Maximum
- Fishing License Required

Offerings
- PK FK Trip ID
- PK FK Fish ID
- Total Fish Species

Destination
- PK Zip Code
- Destination Country
- Destination State
- Destination City
- Season Start Date
- Season End Date

Trip
- PK Trip ID
- FK Fish ID
- FK Guide ID
- FK Location
- Trip Name
- Trip Price
- Trip Capacity
- Trip Begin Date
- Trip End Date
- Fishing Technique
- Meeting Location

Order
- PK Order Number
- FK Trip ID
- FK Member ID
- Order Date

Survey Response
- PK Response Number
- FKUser ID
- Response Date

User
- PK User ID
- Username
- Join Date
- First Name
- Last Name
- DOB
- Email
- Phone Number

Client
- PK User ID
- Subscription date begin
- Subscription date end

Admin
- PK User ID
- Admin Title
- Role

Guide
- PK User ID
- Guide State
- Guide City
- Guide Address
- Guide Rating
- Guide Vessel

1.. *   0.. 1   1   1.. *   1   1.. *   1.. *   0.. 1   0.. *   0.. *   1   1   is a   is a

Database Diagram link:

https://cardmaillouisville-

my.sharepoint.com/:u:/g/personal/ajrodr03_louisville_edu1/EZoRz30Vzr9KpDkdothXeB4B0a6j

YjcGRDiI5D_dY1OpyQ

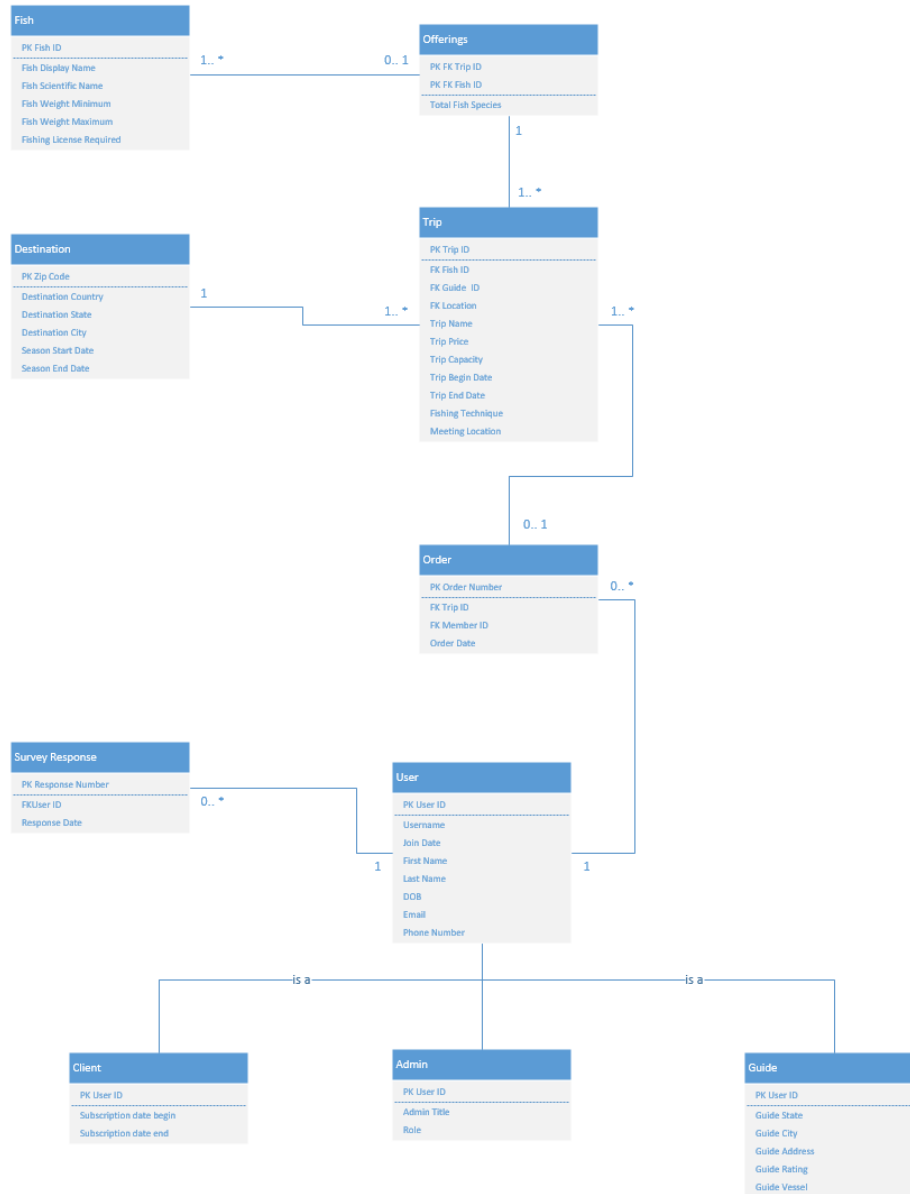# 5.1 Database Diagram Narrative

This database diagram's design focused mainly on the key classes present in the class diagram, but additions were required to normalize to the third normal form. Bridge entities like "Offerings" and "Orders" had to be introduced to resolve many to many relationships and careful selection of attributes was required to avoid partial dependencies. Attributes were selected in a way to ensure fields would remain as single points of data and avoid unstructured or multivalued entries. As seen in the class diagram, we left the subtype of users broken into their own classes and the omission of the payment gateway class was made. This was intentional because there will not be any payment information stored as this system should remain out of scope of PCI regulations.

5.2 Data definitions

USER				
Attribute	Definition	Type	Size	Key
User ID	Unique identifier for the user	Int	4 Bytes	Primary Key
Username	Username for login	String	255 Bytes (Max)	N/a
Email	User's email address	String	255 Bytes (Max)	N/a
First Name	User's first name	String	255 Bytes (Max)	N/a
Last Name	User's last name	String	255 Bytes (Max)	N/a
DOB	User's date of birth	Date	3 bytes	N/a
Join Date	Date the User Joined	Date	3 bytes	N/a

Phone Number	User's phone number	String	10 characters	N/a

ADMIN

Attribute	Definition	Type	Size	Key
User ID	Unique identifier for the admin	Int	4 Bytes	Primary Key
Admin Title	Internal title held	String	255 Bytes (Max)	N/a
Role	Role given to the administrator	String	255 Bytes (Max)	N/a

GUIDE

Attribute	Definition	Type	Size	Key
User ID	Unique identifier for the fishing guide	Int	4 Bytes	Primary Key
Guide State	State the guide is in	String	255 Bytes (Max)	N/a
Guide City	City the guide is in	String	255 Bytes (Max)	N/a
Guide Address	Guide's specific address	String	255 Bytes (Max)	N/a
Guide Rating	The guide's overall rating	Decimal	17 Bytes (Max)	N/a
Guide Vessle	Vessle the guide uses	String	255 Bytes (Max)	N/a

CLIENTS

Attribute	Definition	Type	Size	Key
User ID	Unique identifier for the fishing guide	String	4 Bytes	Primary Key

Subscription Beginning Date	Time the subscription began	Date	3 bytes	N/a
Subscription End Date	Time the subscription will end	Date	3 bytes	N/a

TRIP

Attribute	Definition	Type	Size	Key
TripID	Unique identifier for the fishing trip	Int	4 Bytes	Primary Key
Title	Title of the fishing trip	String	255 Bytes (Max)	N/a
Location	Location of the fishing trip	String	255 Bytes (Max)	N/a
Date	Date of the fishing trip	Date	3 bytes	N/a
Price	Price per day	Decimal	17 Bytes (Max)	N/a
Guide Name	Name of the fishing guide	String	255 Bytes (Max)	N/a
Target Species	List of fish species targeted on the trip	List	255 Bytes (Max)	N/a

FISH

Attribute	Definition	Type	Size	Key
Fish ID	Unique identifier for the fish	Int	4 Bytes	Primary Key
Fish Dsiplay Name	Display name of the fish	String	255 Bytes (Max)	N/a
Fish Scientific name	Scientific name of the fish	String	255 Bytes (Max)	N/a

Fish weight minimum	Minimum weight of the fish	Decimal	17 Bytes (Max)	N/a
Fish weight Maximum	Maximum weight of the fish	Decimal	17 Bytes (Max)	N/a
Fishing License Required	Is a fishing license require for the fish	Boolean	255 Bytes (Max)	N/a

DESTINATION

Attribute	Definition	Type	Size	Key
Zip Code	Zip code of the destination	Char	10 characters	Primary Key
Destination Country	Country of the destination	String	255 Bytes (Max)	N/a
Destination State	State of the destination	String	255 Bytes (Max)	N/a
Destination City	City of the destination	String	255 Bytes (Max)	N/a
Season Start Date	Beginning of the season	Date	3 bytes	N/a
Season End Date	End of the season	Date	3 bytes	N/a

ORDER

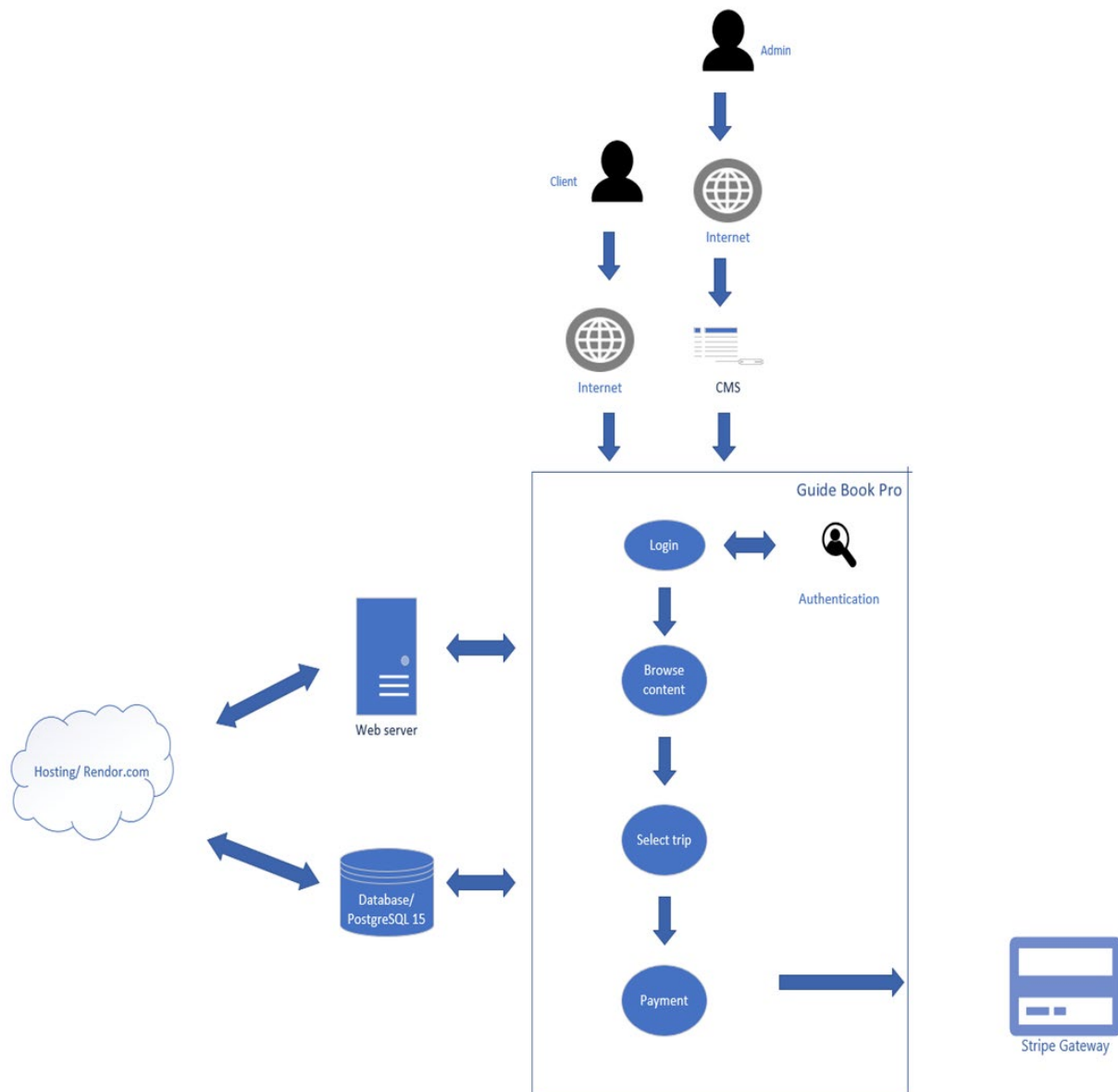| Attribute	Definition	Type	Size	Key
Order Number	Unique identifier for each order	Int	4 Bytes	Primary Key
Order Date	Time of the completed order	Date	3 bytes	N/a
Trip ID	ID of the trip/s that the order is associated with the order	Int	4 Bytes	Foreign Key
Member ID	ID of the client that submitted the order	Int	4 Bytes	Foreign Key

Order Date	Date the order was submitted	Date	3 bytes	N/a
SURVEY RESPONSE				
Attribute	Definition	Type	Size	Key
Response Number	Unique identifier for each response	Int	4 Bytes	Primary Key
Response Date	Time response was completed	Date	3 bytes	
UserID	User associated with form submission	Int	4 Bytes	Foreign Key
OFFERINGS				
Attribute	Definition	Type	Size	Key
Trip ID	Trip associated with offering list	Int	4 Bytes	PK and FK
Fish ID	Fish associated with offering list	Int	4 Bytes	PK and FK
Total Fish Species	Total offered based on combination of trip and fish	Int	4 Bytes	N/a

6. User Interface Navigation Diagram and Screen Layouts:

```
                        ┌─────────────────────────┐
                        │       <<Window>>        │
                        │      Guidebook Pro      │
                        │                         │
                        │  ┌──────────┐ ┌──────────┐
                        │  │<<Window>>│ │<<Window>>│
                        │  │  Home    │ │Administrative│
                        │  │  Screen  │ │  Panel   │
                        │  └──────────┘ └──────────┘
                        └─────────────────────────┘
```

<<Tab>> Notifications	<<Tab>> Find Trips	<<Tab>> Profile

<<Tab>> User Database	<<Tab>> Manage Listings	<<Tab>> Feedback	<<Tab>> Automation

<<Button>> Trip

<<Button>> Contact

<<Button>> Review

<<Button>> Book

<<Button>> Edit listing

<<Button>> Add listing

<<Button>> Delete listing

<<Form>> Select survey/feedback

<<Button>> Personalized Messages

<<Button>> Trip Reminders

<<Button>> add new message

<<Button>> edit message

<<Button>> add new reminder

<<Button>> edit reminder
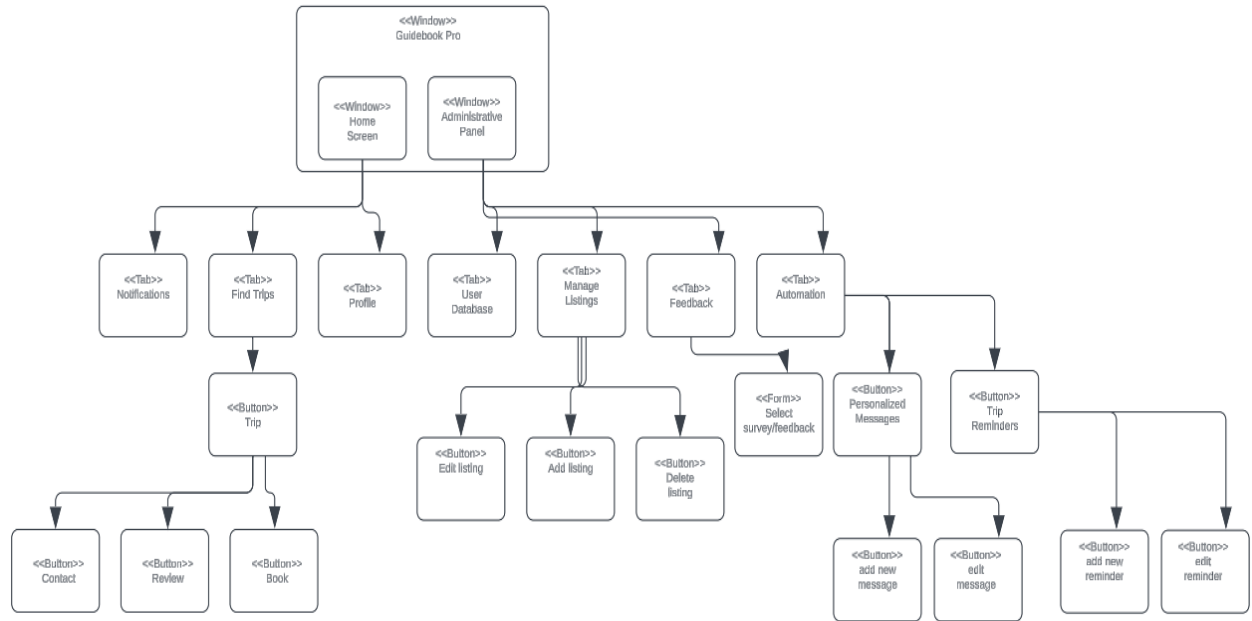
7. Physical Architecture Design

8. Design Procedures

8.1 Non-function Requirements

Guide Book Pro's premium qualities naturally leads users to expect security capabilities to be nothing less than adequate. Guide Book Pro's web-based model provides a solid foundation for

this, being guarded by the secure network used by the CMS. All data is stored safely on this network, and payment processing is conducted securely outside of Guide Book Pro via Stripe. User activity analytics can be used to improve recommendations. This specific data will not be associated with individual users when stored. Reaching beyond the scope of just user security, Guide Book Pro will strive for quality by abiding by the ISO 9000 family of standards. If seeking certification, Guide Book can either conduct an internal audit or bring in an external auditor, and then contact the ANSI National Accreditation Board for information regarding who to contact to apply for certification.

9. Gantt Chart
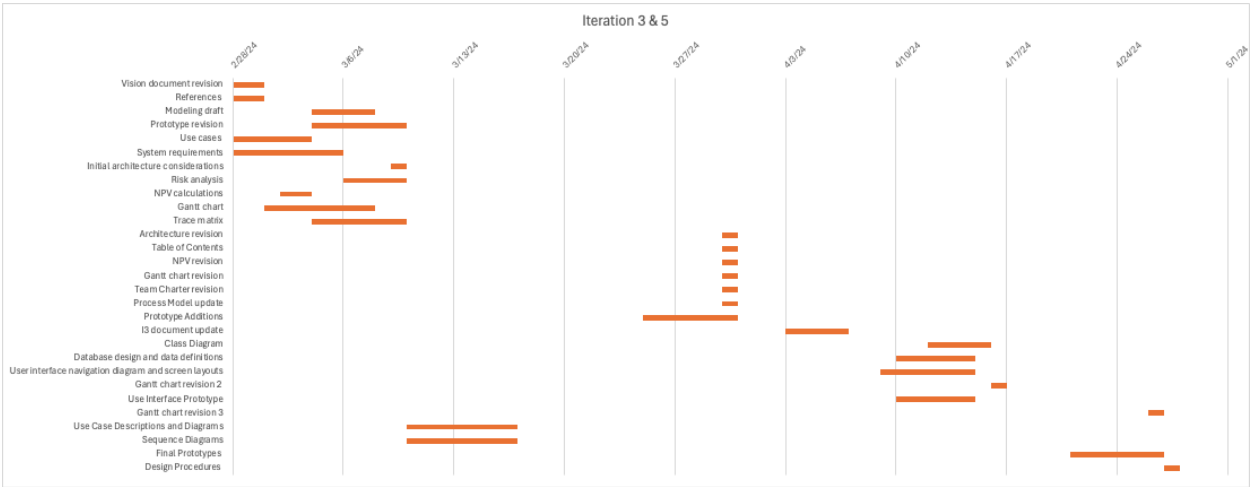
[Link to Gantt Chart](#)

10. Protypes

Use Case 1: Activate Account

Step #1

Account Registration

You've received an exclusive invitation from the team at Guide Book Co. to join Guide Book Pro.

Let's get started by entering your email address and the temporary password provided in your invitation.

You will be able to set your own password shortly.

Email

Password

Re-enter password

Next

Use Case 2: Login to website

Login to Guide Book Pro

Email

Password

Login

Forgot password

Looking for Guide Book? Click here to return.

Use Case 3: Website Tutorial

Guide Book
Pro

My Trips   My Profile   🔔

Your Trips

Add

Great! Let's Get Started

The basic layout and fundamentals of Guide Book Pro carry over from Guide Book.
Would you like a complete tutorial, or just a quick run-through of what's new?

Recommended for users
unfamiliar with Guide Book.

Recommended for users
who have used the standard
Guide Book service before.

Full Tutorial

Keep it Brief

Use Case 4-6: Filter by Location, Filter by Species, Filter by Technique

Guide Book
Pro

My Trips   My Profile   🔔

Find Trips

Salmon Fishing w/ Megan Waldrep
★★★★★
3 day trip
Juneau, AK

Tarpon Fishing w/ Larry Seltzer
★★★★★
2 day trip
Miami, FL

Search Criteria

Species   ▼

Technique   ▼

Location   ▼

Availability

[📅] to [📅]

Reset   Apply
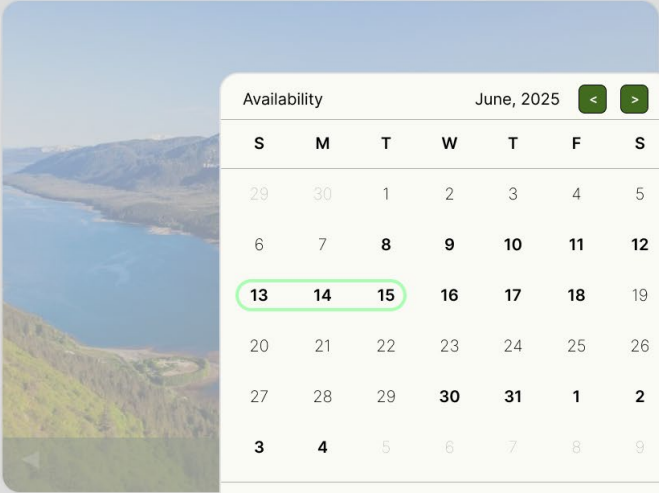
Use Case 7: View Available Dates

My Trips   My Profile

Trip Details

Availability   June, 2025   `<` `>`

S	M	T	W	T	F	S
29	30	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	1	2
3	4	5	6	7	8	9

Select a range of days that you'd
like to **book** for.   **Select**

Guided by Megan Waldrep

Species: Alaskan Salmon

Location: Juneau, Alaska

Technique: Fly Fishing

Length: 3 days

Open to: Beginner, Intermediate,
Expert

Guide Rating ★★★★★ 1 reviews

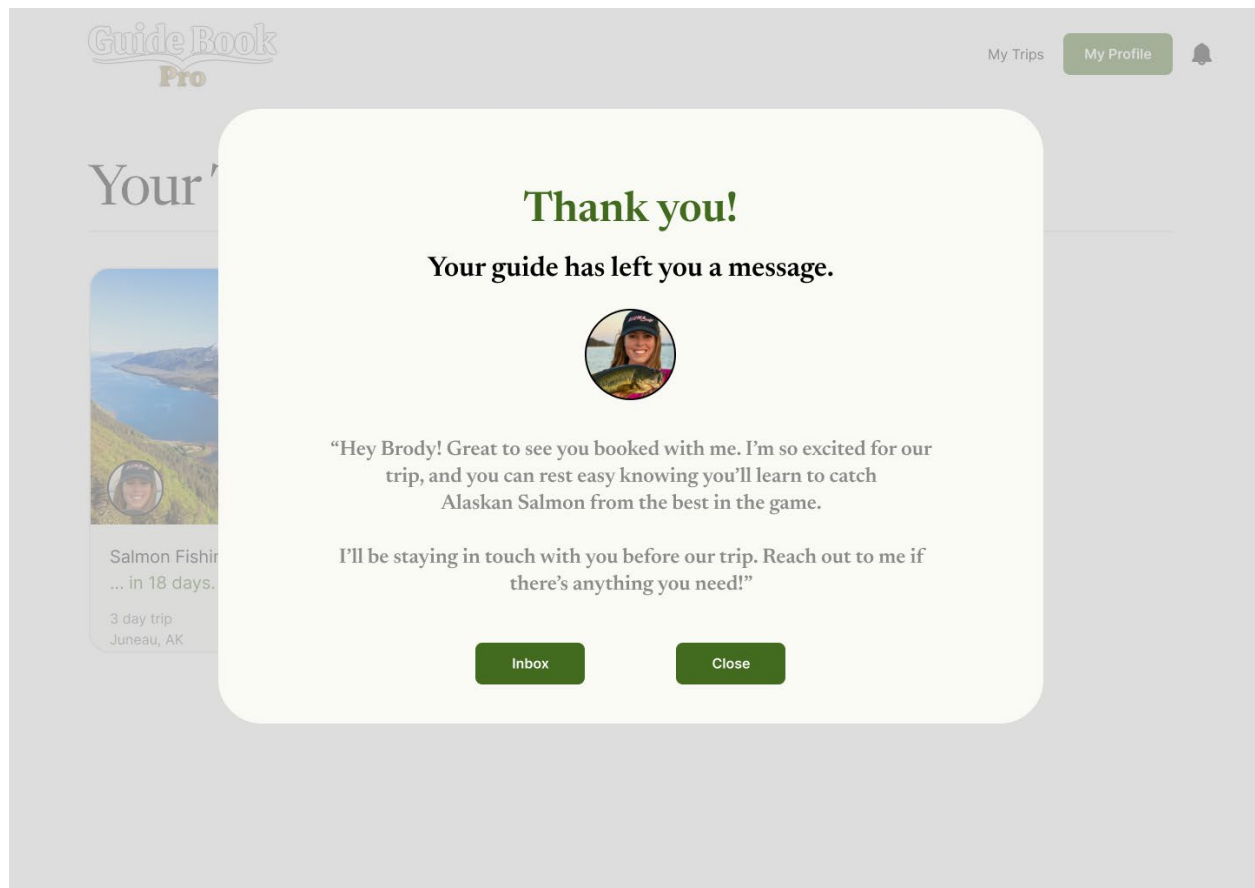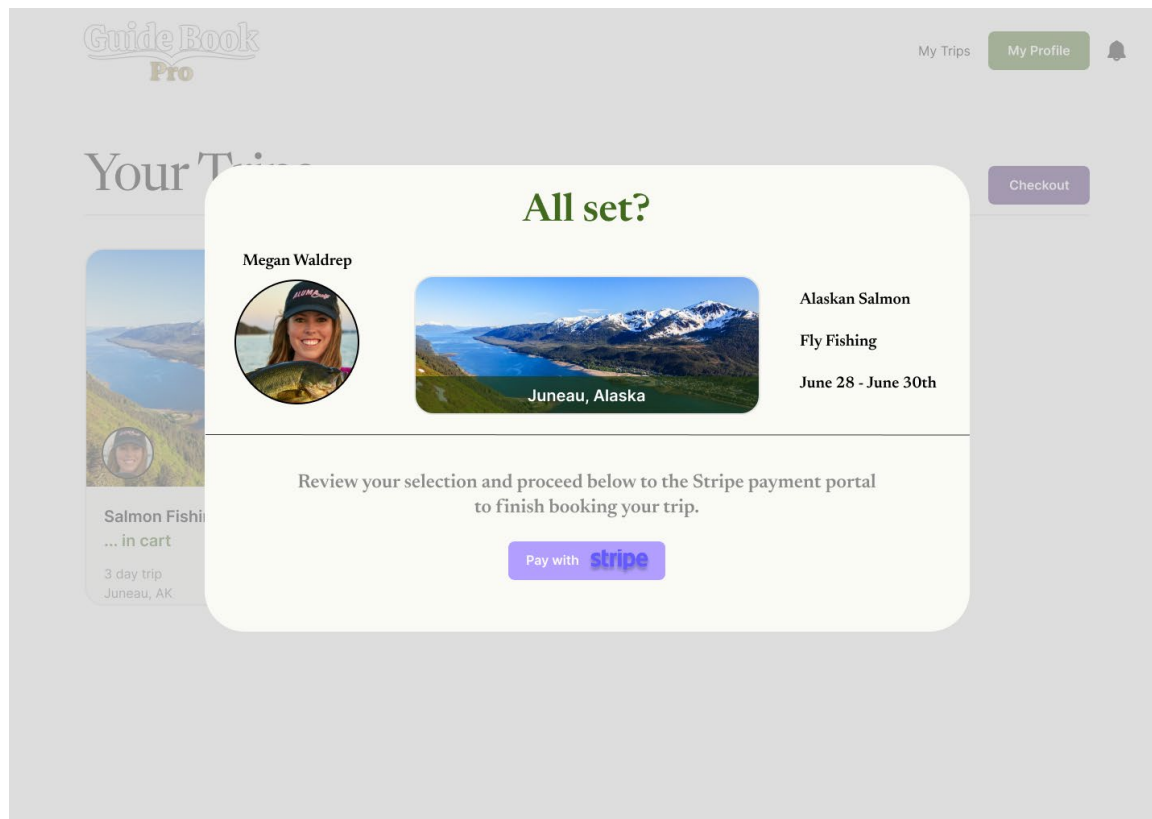Trip Rating ★★★★★ 0 reviews

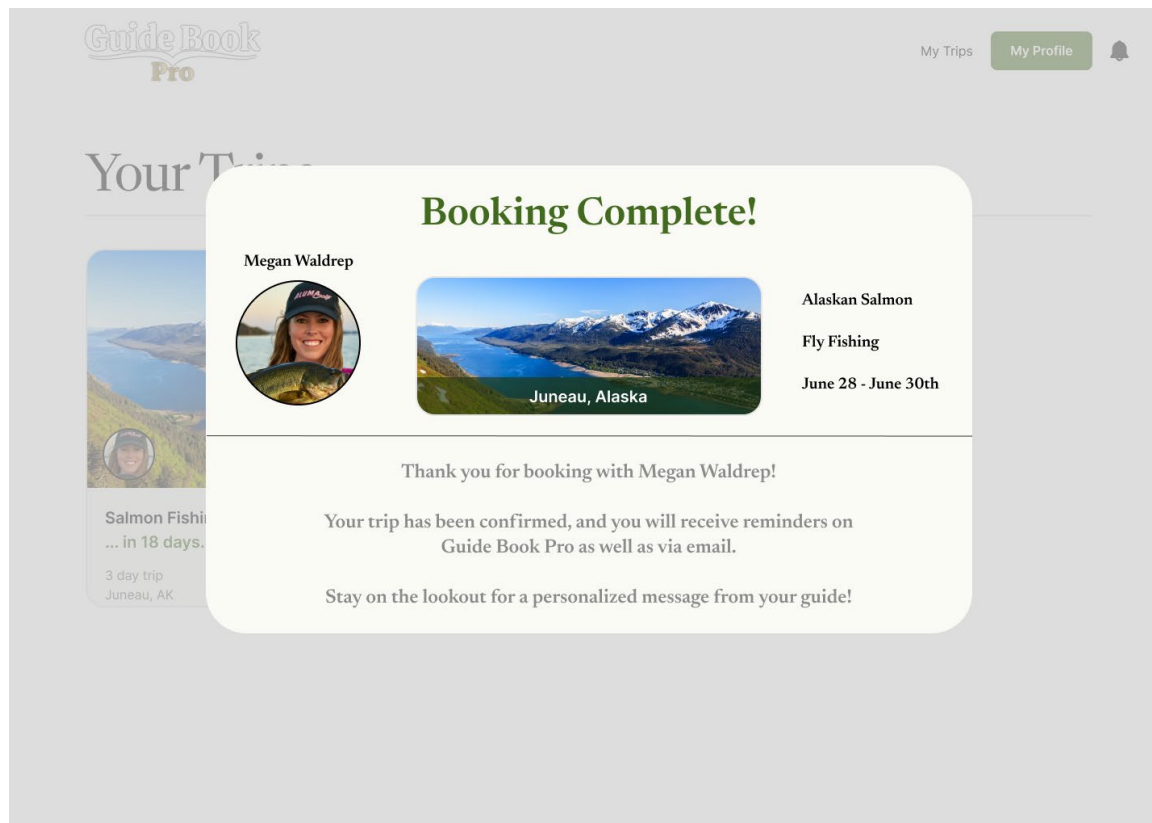Contact   Review   Add to Cart

View availability   📅

Description

Prepare for an amazing trip to the great state of Alaska! In it's capital city of

Use Case 8: Add selection to "My Trips"

Trip Details

1/7

Description

Prepare for an amazing trip to the great state of Alaska! In it's capital city of

Guided by Megan Waldrep

Species: Alaskan Salmon

Location: Juneau, Alaska

Technique: Fly Fishing

Length: 3 days

Open to: Beginner, Intermediate, Expert

Guide Rating ★★★★★ 1 reviews

Trip Rating ★★★★★ 0 reviews

Contact   Review   Add to Cart

View availability 📅

Use Case 9: Receive personalized messages

Thank you!

Your guide has left you a message.

"Hey Brody! Great to see you booked with me. I'm so excited for our
trip, and you can rest easy knowing you'll learn to catch
Alaskan Salmon from the best in the game.

I'll be staying in touch with you before our trip. Reach out to me if
there's anything you need!"

Inbox   Close

Use Case 10: Pay for selected trips

GuideBook Pro

My Trips   My Profile   🔔

Your Trips   Checkout

All set?

Megan Waldrep

Alaskan Salmon

Fly Fishing

June 28 - June 30th

Juneau, Alaska

Salmon Fishi...
... in cart

3 day trip
Juneau, AK

Review your selection and proceed below to the Stripe payment portal
to finish booking your trip.

Pay with **stripe**

Use Case 11: Receive booking confirmation

Use Case 12: Complete Interest Survey

Your '

Congratulations!

Welcome to Guide Book Pro.

The high class fishing trips of your dreams are just around the corner.

Even if you were previously a Guide Book member, take a moment to check out what's new.

But before getting started, let's go through some questions to see what you're interested in.

Next

Your '

What interests you?

This will be used to help show you more relevant results and improve our service.

Favorite species ▾

Favorite region ▾

Preferred trip length ▾

Anything else we should know?

Next

Use Case 13: Admin grant access

Manage User

User Profile

Membership Status

Brody Hayden

The account belonging to **Brody Hayden** is currently **active**.

This user is **not** currently a subscriber to Guide Book Pro.

This user originally joined **Guide Book Pro** on **5/23/2025**.

Remove User Access

Grant User Access

	Name	Email Address	User ID		
	Brody Hayden	bthayd01@loui...	1	View More	Manage
	Brody Hayden	bthayd01@loui...	1	View More	Manage

Use Case 14: User receive reminders

Inbox

"Hey Brody! Great to see you booked with me. I'm so excited for our trip, and you can rest easy knowing you'll learn to catch Alaskan Salmon from the best in the game. I'll be staying in...

Open   Thank you!   - **Megan Waldrip**, 5/26/2025

"We hope you enjoyed your recent trip to Florida! Please consider leaving a review about your trip, we would love to get your feedback."

Open   Leave feedback on your trip!   - **Megan Waldrip**, 5/23/2025

Close

My Trips   My Profile

My Pro

About me

Contact Details

Preferences

Subscription & Payment

Privacy

Log Out

Inbox

Gender

City

Use Case 15: Review fishing trip
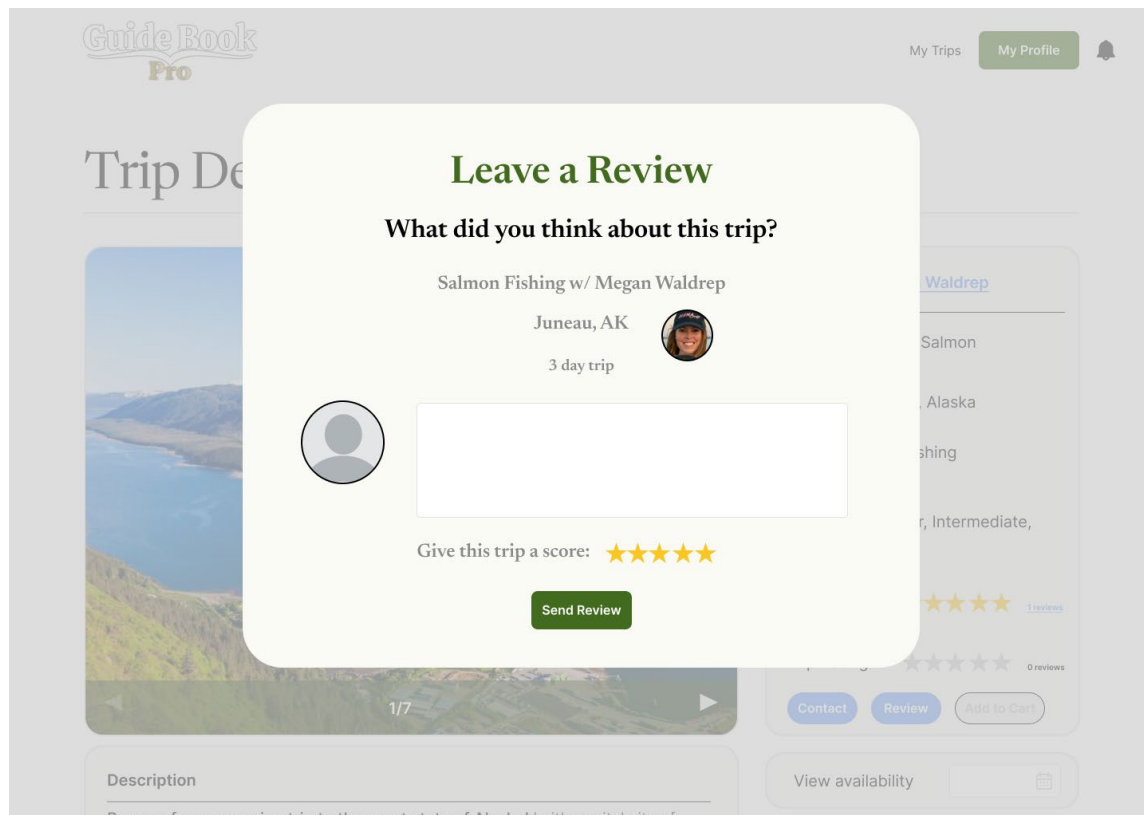
Use Case 16: View trip reviews

Reviews

Salmon Fishing w/ Megan Waldrep
Juneau, AK

1 review
★★★★★

> Had a great time with Megan. Very skilled guide, and loved getting to see Alaska.
> ★★★★★   - **Alex Rodriguez**, 6/2/2025

There are no more reviews for this trip.

Close

Guide Book
Pro

My Trips   My Profile

Trip De

Waldrep

Salmon

, Alaska

shing

r, Intermediate,

★★★★   1 reviews

★★★★★   0 reviews

Contact   Review   Add to Cart

View availability

Description

Prepare for an amazing trip to the great state of Alaska! In it's capital city of

1/7

Use Case 17: User profile update

Guide Book Pro

My Trips   **My Profile**   🔔

My Profile

About me	
Contact Details	
Preferences	
Subscription & Payment	
Privacy	
Log Out	

Inbox

About me

Profile Photo

Change Profile Photo   Photo must be less than 2MB. Ideal resolution is 250×250.

First Name

Last Name

Gender ▾

City

Use Case 18: User forgot password

Login to Guide Book Pro

Forgot your password?

Email

Send

Return to login.

If an account is associated with this address, you will
receive instructions to reset your password in your inbox.

This may take up to 5-10 minutes to arrive.

Don't see anything? Click here to re-send the email.

Use Case 19: Admin grant access

Guide Book Pro

Admi

Manage User

User Profile

Membership Status

Brody Hayden

The account belonging to **Brody Hayden** is currently **active**.

This user is **not** currently a subscriber to Guide Book Pro.

This user originally joined **Guide Book Pro** on **5/23/2025**.

Remove User Access

Grant User Access

User Databas

Manage Listir

Feedback

Automation

Log Out

nvite User

Manage

Manage

Manage

Manage

Name	Email Address	User ID		
Brody Hayden	bthayd01@loui...	1	View More	Manage
Brody Hayden	bthayd01@loui...	1	View More	Manage

Use Case Description 20: Remove access

Use Case Description 21: Upload trips

Use Case Description 22: Edit trip details

Use Case Description 23: Remove trips

Use Case Description 24: Create personalized messages

Guide Book Pro

Administrative Panel

Automation

Personalized Messages   Trip Reminders

	Target(s)	Message ID		
👤	Brody Hayden	1	View More	Edit
👤	All users	2	View More	Edit
👤	First Login	3	View More	Edit
👤	Just-Booked	4	View More	Edit
👤	All users	5	View More	Edit

Add new message

Sidebar
- User Database
- Manage Listings
- Feedback
- Automation
- Log Out

Use Case Description 25: View survey contents

![Guide Book Pro logo]

Administrative Panel

Feedback

User Database

Manage Listings

Feedback

Automation

Log Out

Preferred Species

Survey #1/2

Category #1/4

Survey Start: 4/25/24

Survey End: N/A

Total Submissions: 20

■ Salmon ■ Trout ■ Carp ■ Mermaids

Use Case Description 26: Set reminder email interval

Guide Book Pro

Administrative Panel

Automation

Personalized Messages   **Trip Reminders**

	Enabled/Disabled	Days Before Trip	Reminder ID	
User Database				Disable all Enable all
✓	Enabled	30	1	Edit
✗	Disabled	29	2	Edit
✓	Enabled	7	3	Edit
✓	Enabled	1	4	Edit

Sidebar:
- User Database
- Manage Listings
- Feedback
- Automation
- Log Out

Add new reminder

Use Case 27: Send Registration Link

Guide Book Pro

Administrative Panel

Invite User

An email will be sent to the following address, containing the link to log into Guide Book Pro alongside the temporary password.

Email address

Temporary password

Send Invite

User Database

Manage Listings

Feedback

Automation

Log Out

Invite User

ew More   Manage

ew More   Manage

ew More   Manage

	Name	Email Address	User ID		
	Brody Hayden	bthayd01@loui...	1	View More	Manage
	Brody Hayden	bthayd01@loui...	1	View More	Manage
	Brody Hayden	bthayd01@loui...	1	View More	Manage

Use Case 28: Submit Feedback Form

Use Case 29-32: View subscription status, Cancel subscription, Enter profile info, Adjust privacy settings

Guide Book
Pro

My Trips   **My Profile**   🔔

My Profile

About me
Contact Details
Preferences
Subscription & Payment
Privacy
Log Out

Inbox

About me

Profile Photo

Change Profile Photo   Photo must be less than 2MB. Ideal resolution is 250×250.

[_____]   First Name

[_____]   Last Name

[_____ ▼]   Gender

[_____]   City