Guidebook Pro

Assignment 3: Analysis Modeling

Version 1.0

Use Case 06: Customer Pays Guidebook Pro Deposit

1.1 Use Case Description:

1.1.A. Use Case 06: Customer Pays Guidebook Pro Deposit

Use Case Name: Customer Pays Guidebook Pro Deposit

ID: 06

Importance Level: High

Primary Actor: Customer

Use Case Type: Detail, Essential

Stakeholders and Interests:

 Customer: Wants to upgrade to Guidebook Pro and pay the deposit.

 Website: Tool used to facilitate the payment process.

 Payment Processor: Tool used to securely process payment transactions.

Brief Description: This use case describes how a customer can upgrade to Guidebook Pro by paying the required deposit.

Trigger: Customer selects the option to upgrade to Guidebook Pro.

Type: External

Relationships:

Association: Customer

Include: None

Extend: None

Generalization: Upgrading to Guidebook Pro

Normal Flow of Events:

Customer logs into their account on the website.

Customer navigates to the subscription upgrade section.

Customer selects the option to upgrade to Guidebook Pro.

The system presents the pricing and terms of the Guidebook Pro subscription.

Customer confirms their decision to upgrade and proceed with the payment.

The system prompts the customer to enter their payment details.

Customer provides their payment information (credit/debit card details, PayPal account, etc.).

The system securely processes the payment transaction.

Upon successful payment processing, the system updates the customer's account status to indicate Guidebook Pro subscription.

The system confirms the successful payment to the customer.

Customer gains access to Guidebook Pro features.

Alternate/Exceptional Flows:

6a. Invalid Payment Information: If the customer provides invalid payment information, the system prompts them to correct the errors and resubmit the payment details.

Sub flows: None

1.2 Related System Requirements & Trace Matrix:

System Requirements:

FR004: Customer will be able to add payment method.

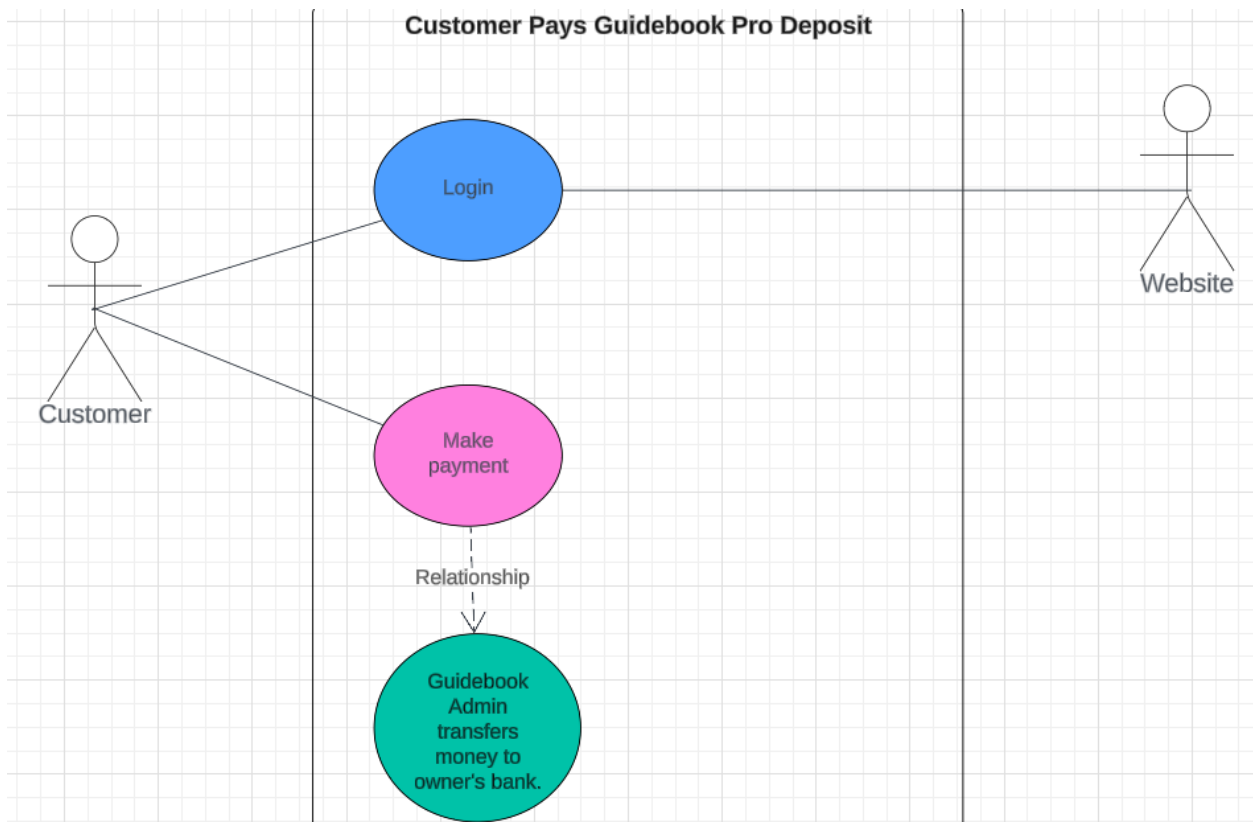FR013: Customer will be able to search for Pro trips by fish.

FR015: Customer will be able to search for Pro trips by Guide.

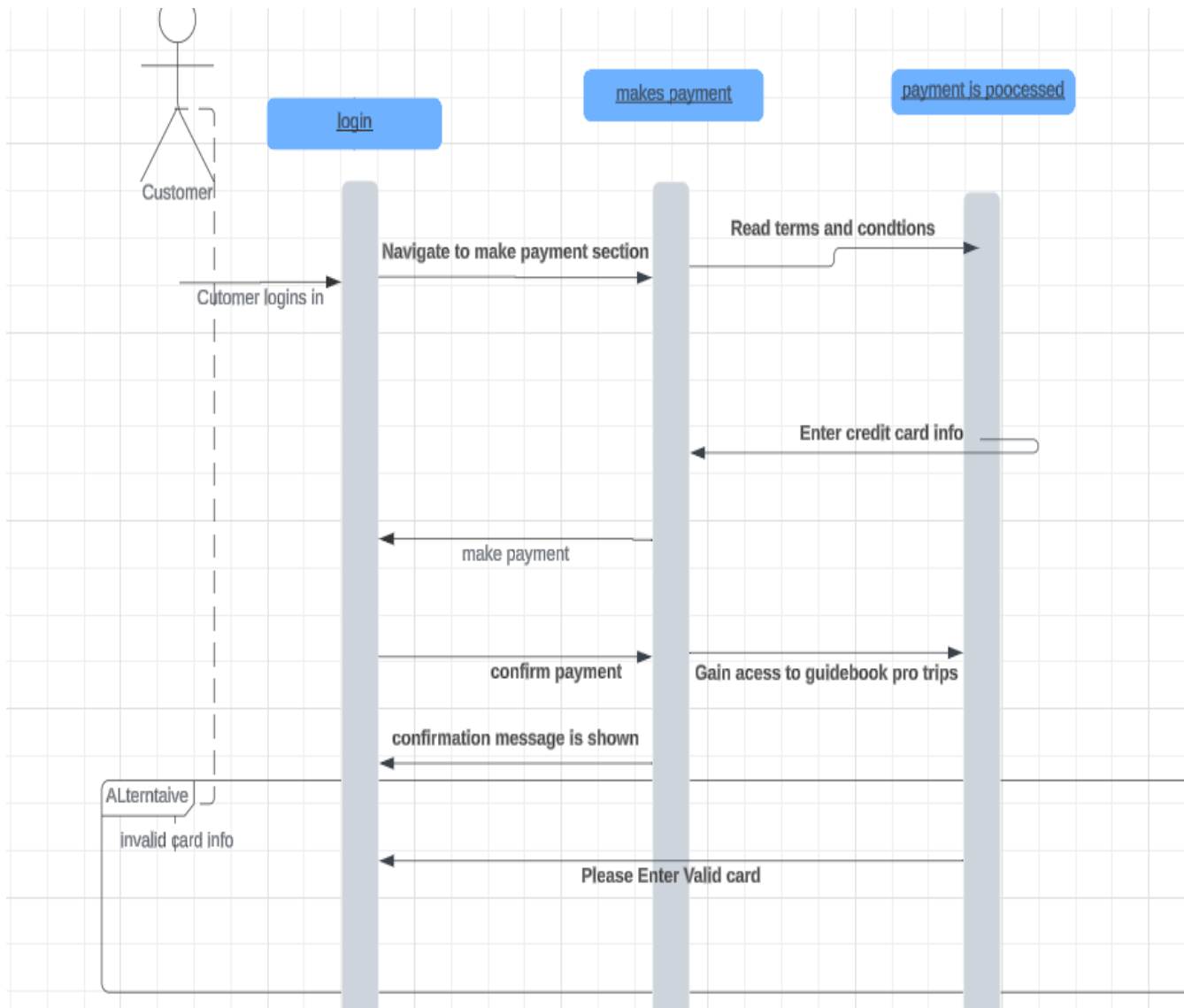FR014: Customer will be able to search for Pro trips by destination.

Tace matrix:

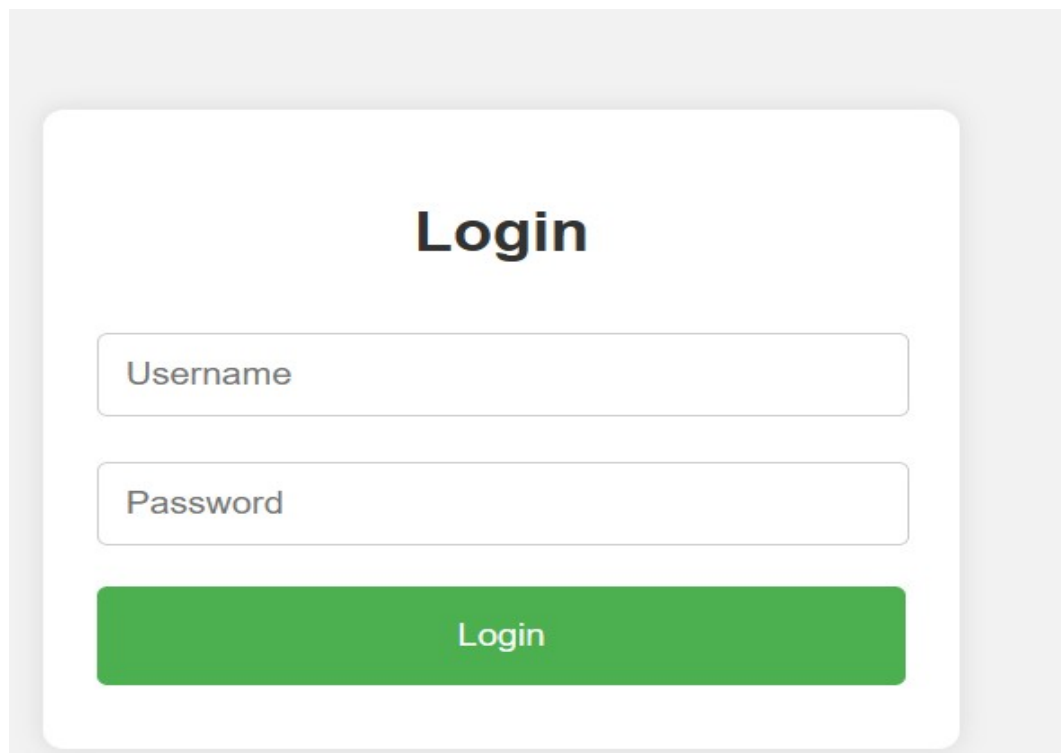|	Customer pays GuideBook Pro deposit	Customer searches by destination	Customer searches by fish	Customer searches by Guide	Customer selects trip
FR004: Customer will be able to add payment method.	X				
FR013: Customer will be able to search for Pro trips by fish.			X		
Customer will be able to search for Pro trips by Guide.				X	
FR014: Customer will be able to search for Pro trips by destination.		X			

Use Case diagram:

Customer Pays Guidebook Pro Deposit

Customer

Login

Make payment

Relationship

Guidebook Admin transfers money to owner's bank.

Website

Sequence diagram:

Customer

login

makes payment

payment is poocessed

Navigate to make payment section

Read terms and condtions

Cutomer logins in

Enter credit card info

make payment

confirm payment

Gain acess to guidebook pro trips

confirmation message is shown

ALterntaive

invalid card info

Please Enter Valid card

Prototypes:

Guide Book Pro

< **Manage Subscription**

GuideBook Pro Subscription

Annual Subsciption

$2,058.75

Full Day	$2,000.00
Credit Card Fee	$58.75

G Pay   Pay with link ⇒

Or pay with card

Card information

1234 1234 1234 1234   VISA

MM / YY   CVC

Cardholder name

Full name on card

Country or region

United States

ZIP

✔ Save my info for 1-click checkout with Link
Securely pay on GuideBook and everywhere Link is accepted.
✔ Set Recurring Subscription
Set subsciption to renew yearly.

Pay

By confirming your payment, you allow GuideBook to charge

Use Case 07: Customer Searches by Destination

Use Case Name: Customer Searches by Destination
FR014
Importance Level: Medium
Primary Actor: Customer
Use Case Type: Detail, Essential

Stakeholders and Interests:

Customer: Wants to efficiently find destinations of interest.

Website: Aims to provide a user-friendly search experience to enhance customer satisfaction.

Search Engine: Needs to deliver accurate and relevant search results to the customer.

Brief Description:
This use case describes the process by which a customer searches for travel destinations on the website.

Trigger:
The customer initiates a search query for destinations.

Type:
External

Relationships:

Association: Customer

Include: None

Extend: None

Generalization: None

Normal Flow of Events:

The customer logs into their account on the website.

The customer navigates to the search section of the website.

The customer enters their desired destination into the search bar.

The system retrieves relevant destinations matching the customer's query.

The system displays the search results to the customer.

The customer selects a destination from the search results to view detailed information.

SubFlows:

None Identified

Alternate/Exceptional Flows:

1a. Login Failure:

The customer fails to log in due to incorrect credentials.

The system prompts the customer to retry or reset their password.

4a. No Search Results:

There are no destinations matching the customer's query.

The system notifies the customer and prompts them to refine their search criteria.

A System requirements:

FR004: Customer will be able to add payment method.

FR013: Customer will be able to search for Pro trips by fish.
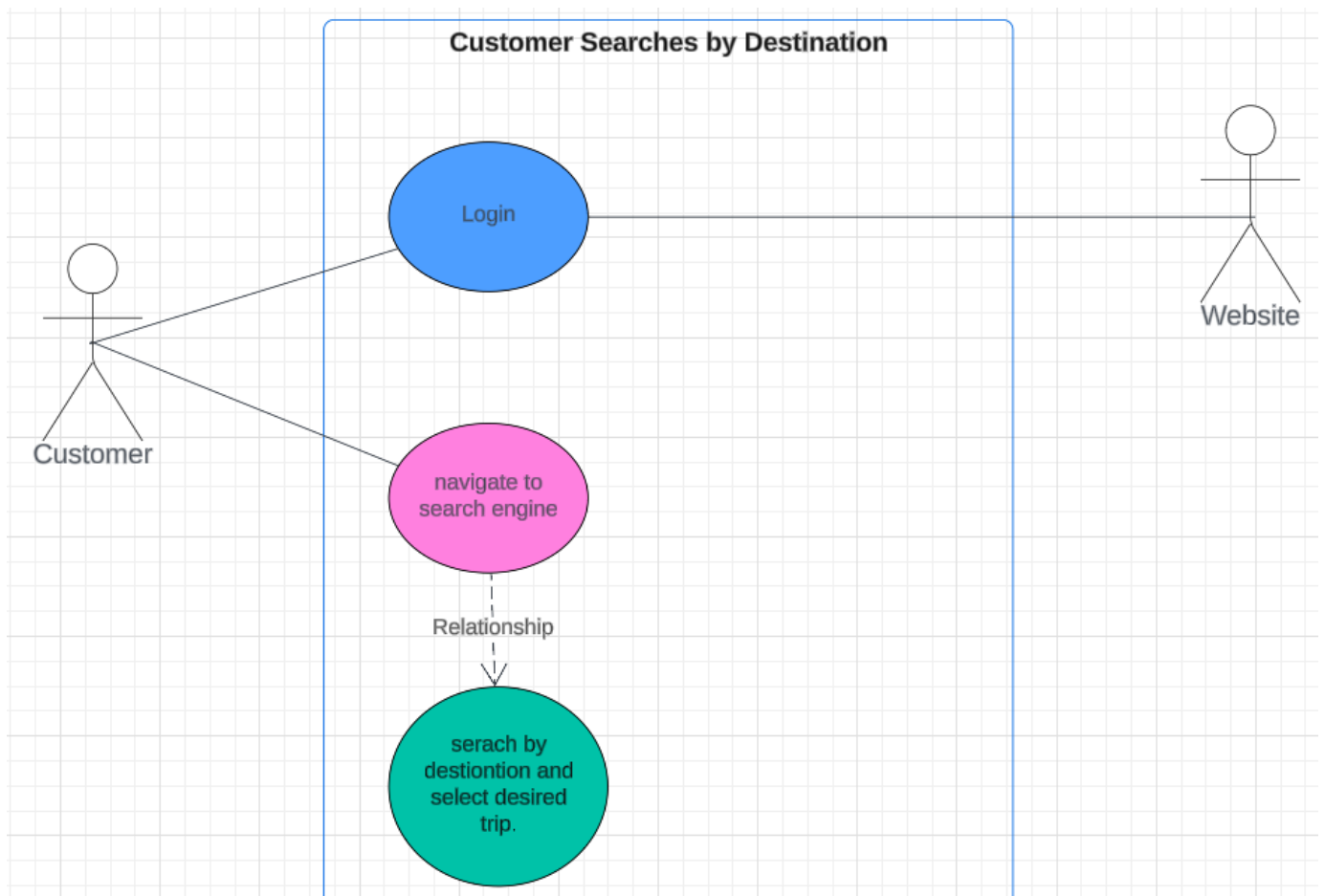
FR014: Customer will be able to search for Pro trips by destination.

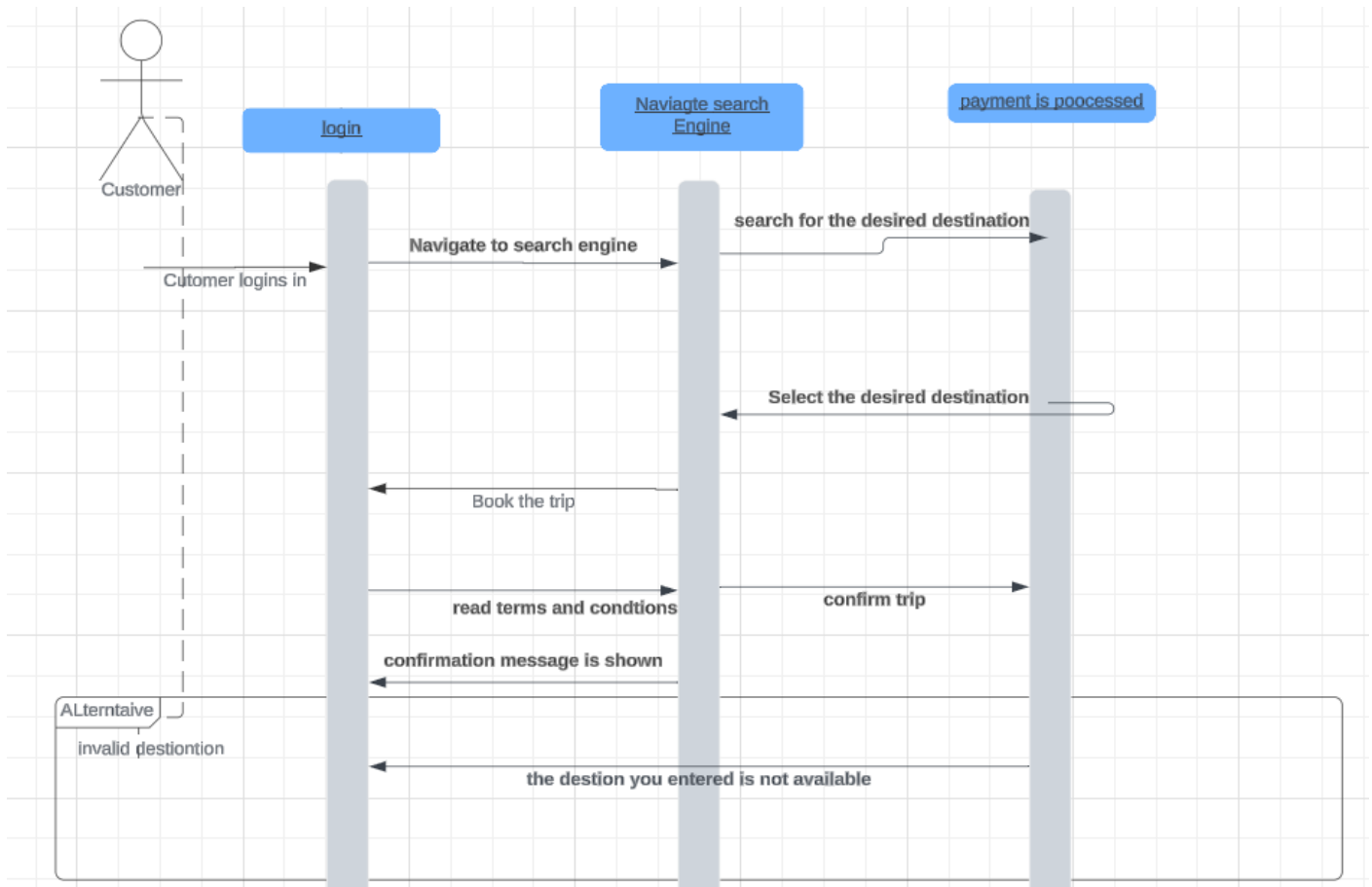FR015: Customer will be able to search for Pro trips by Guide.

Traceability Matrix

	Customer pays GuideBook Pro deposit	Customer searches by destination	Customer searches by fish	Customer searches by Guide	Customer selects trip
FR004: Customer will be able to add payment method.	X				
FR013: Customer will be able to search for Pro trips by fish.			X		
Customer will be able to search for Pro trips by Guide.				X	
FR014: Customer will be able to search for Pro trips by destination.		X			

Use Case diagram:

Sequence diagram:

Customer

login

Naviagte search Engine

payment is poocessed

Cutomer logins in

Navigate to search engine

search for the desired destination

Select the desired destination

Book the trip

read terms and condtions

confirm trip

confirmation message is shown

ALterntaive

invalid destiontion

the destion you entered is not available

Prototypes:

Use Case Description:

Use Case 8: Customer Searches by Fish

Use Case Name: Customer Searches by Fish
FR013
Importance Level: Low
Primary Actor: Customer
Use Case Type: Detail, Essential

Stakeholders and Interests:

Customer: Wants to find relevant information about fish.

Website: Provides the search functionality and retrieves search results.

Search Engine: Executes the search query and returns relevant results to the customer.

Brief Description: This use case describes how a customer can search for information related to fish on the website.

Trigger: Customer enters "fish" in the search bar and submits the search query.

Type: External

Relationships:

Association: Customer

Include: None

Extend: None

Generalization: None

Normal Flow of Events:

The customer navigates to the website's search bar.

The customer enters "fish" in the search bar.

The customer submits the search query.

The website processes the search query.

The search engine retrieves relevant search results.

The website displays the search results to the customer.

The customer reviews the search results and selects a specific item of interest.

Sub flows:

None Identified

Alternate/Exceptional Flows:

Invalid Search Query: If the search query is too broad or ambiguous, the website prompts the customer to refine their search.

No Search Results: If there are no search results matching the customer's query, the website notifies the customer and suggests alternative search terms.

Related System Requirements & Trace Matrix:

System Requirements:

FR004: Customer will be able to add payment method.

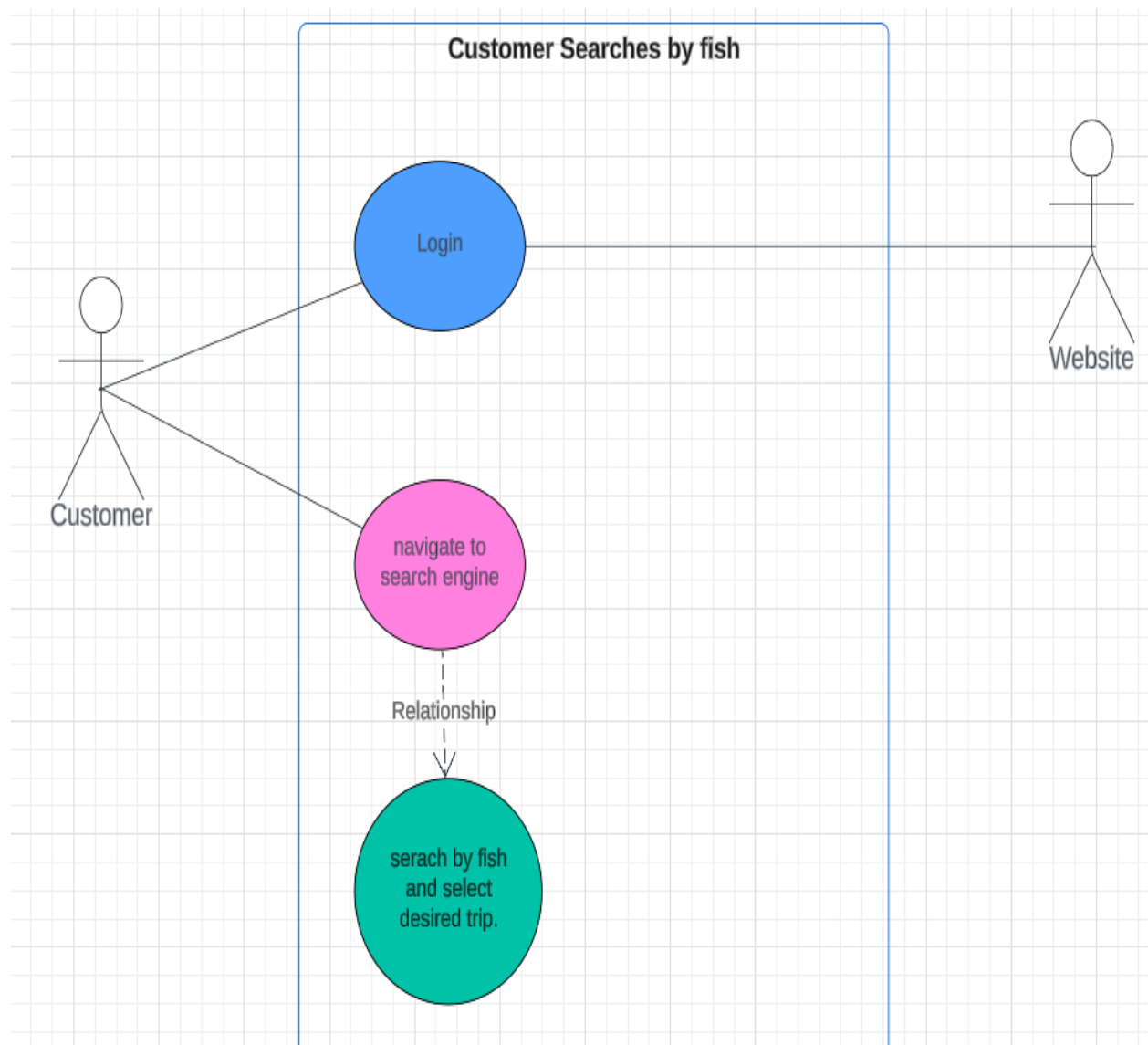FR013: Customer will be able to search for Pro trips by fish.

FR015: Customer will be able to search for Pro trips by Guide.

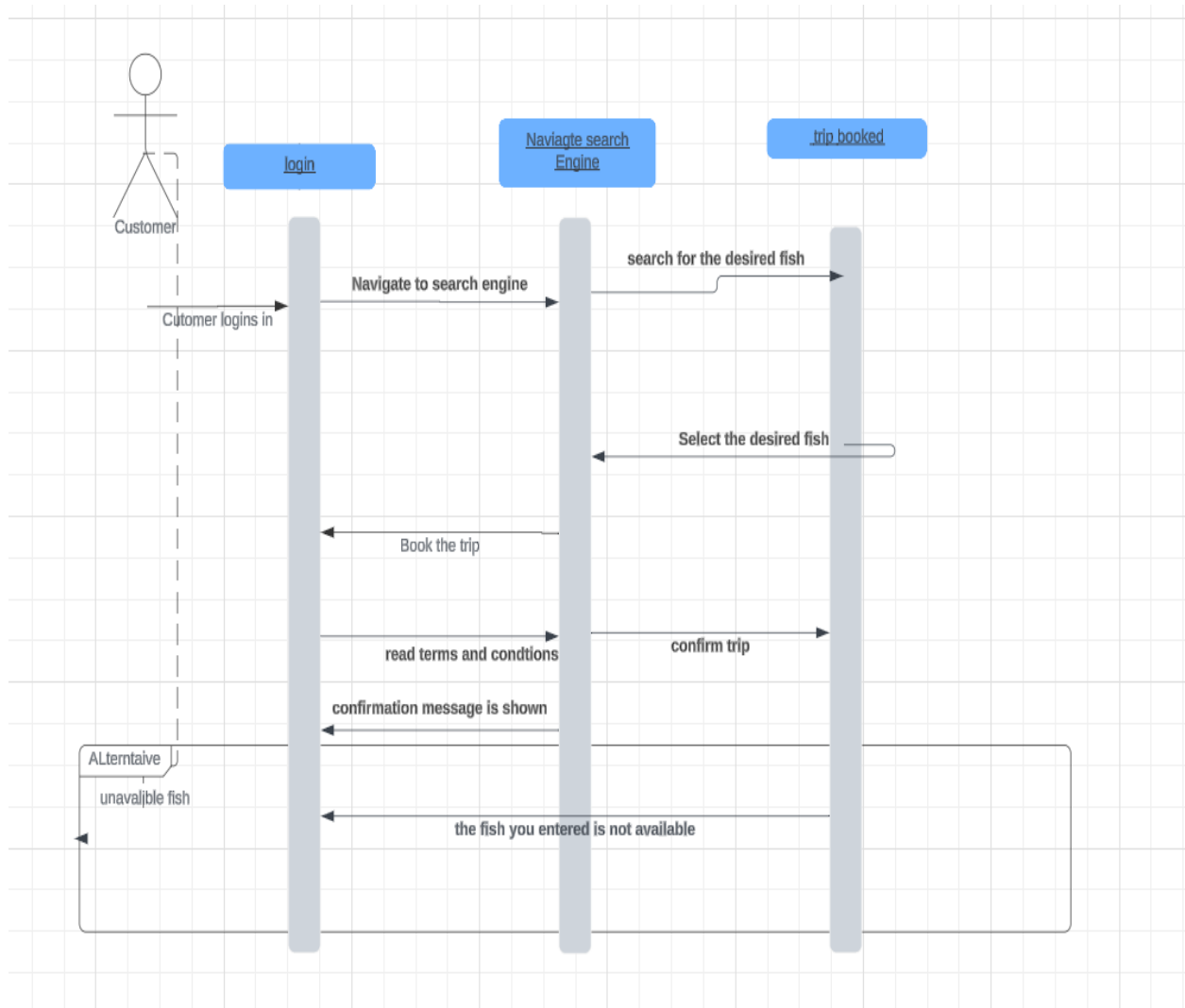FR014: Customer will be able to search for Pro trips by destination.

Tace matrix:

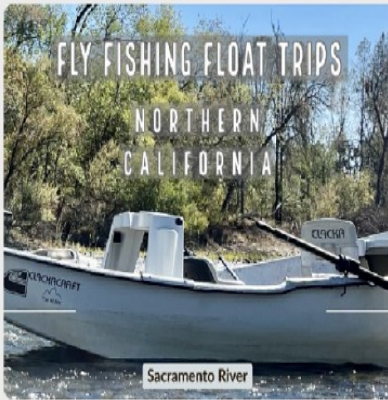|	Customer pays GuideBook Pro deposit	Customer searches by destination	Customer searches by fish	Customer searches by Guide	Customer selects trip
FR004: Customer will be able to add payment method.	X				
FR013: Customer will be able to search for Pro trips by fish.			X		
Customer will be able to search for Pro trips by Guide.				X	
FR014: Customer will be able to search for Pro trips by destination.		X			

Use case diagram:

Customer Searches by fish

Login

navigate to search engine

Relationship

serach by fish and select desired trip.

Customer

Website

Sequence Diagram

Prototypes:

Use case description:

Use Case 9: Customer Searches by Guide

Use Case Name: Customer Searches by Guide
ID: 9
Importance Level: Low
Primary Actor: Customer
Use Case Type: Detail, Essential

Stakeholders and Interests:

Customer: Wants to find information about guides.

Website: Provides the search functionality and retrieves search results.

Search Engine: Executes the search query and returns relevant results to the customer.

Brief Description: This use case describes how a customer can search for information related to guides on the website.

Trigger: Customer enters "guide" in the search bar and submits the search query.

Type: External

Relationships:

Association: Customer

Include: None

Extend: None

Generalization: None

Normal Flow of Events:

The customer navigates to the website's search bar.

The customer enters "guide" in the search bar.

The customer submits the search query.

The website processes the search query.

The search engine retrieves relevant search results related to guides.

The website displays the search results to the customer.

The customer reviews the search results and selects a specific guide of interest.

Subflows: None Identified

Alternate/Exceptional Flows:

Invalid Search Query: If the search query is too broad or ambiguous, the website prompts the customer to refine their search.

No Search Results: If there are no search results matching the customer's query, the website notifies the customer and suggests alternative search terms.

A system Requirements:

FR004: Customer will be able to add payment method.

FR013: Customer will be able to search for Pro trips by fish.

FR015: Customer will be able to search for Pro trips by Guide.

FR014: Customer will be able to search for Pro trips by destination.

Tace matrix:

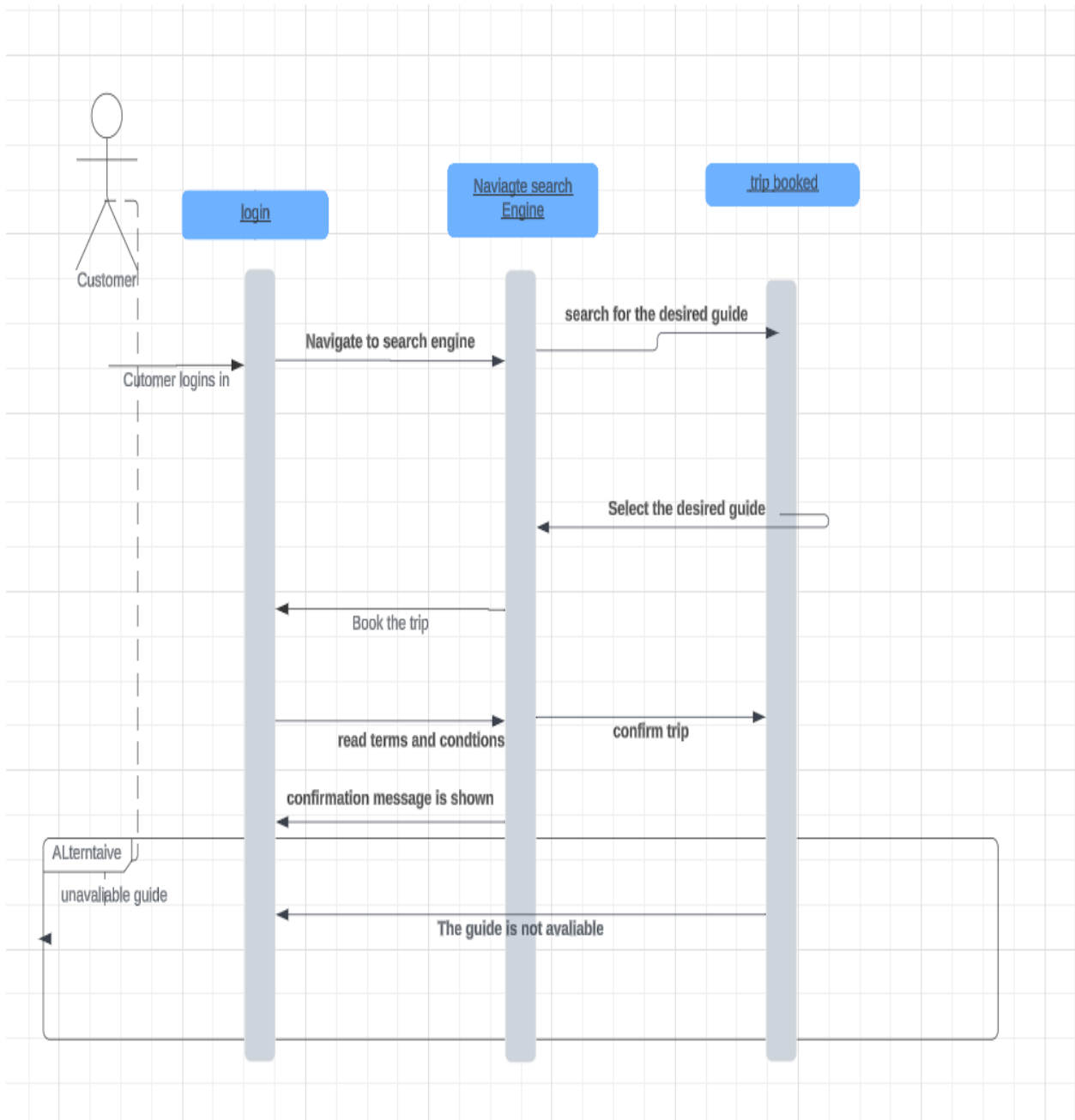|	Customer pays GuideBook Pro deposit	Customer searches by destination	Customer searches by fish	Customer searches by Guide	Customer selects trip
FR004: Customer will be able to add payment method.	X				
FR013: Customer will be able to search for Pro trips by fish.			X		
Customer will be able to search for Pro trips by Guide.				X	
FR014: Customer will be able to search for Pro trips by destination.		X			

Use Case Diagram:

Customer Searches by Guide

Login

Customer

Website

navigate to search engine

Relationship

serach by desired Guide and select trip.

Sequence diagram:

Customer

login

Naviagte search Engine

trip booked

Cutomer logins in

Navigate to search engine

search for the desired guide

Select the desired guide

Book the trip

read terms and condtions

confirm trip

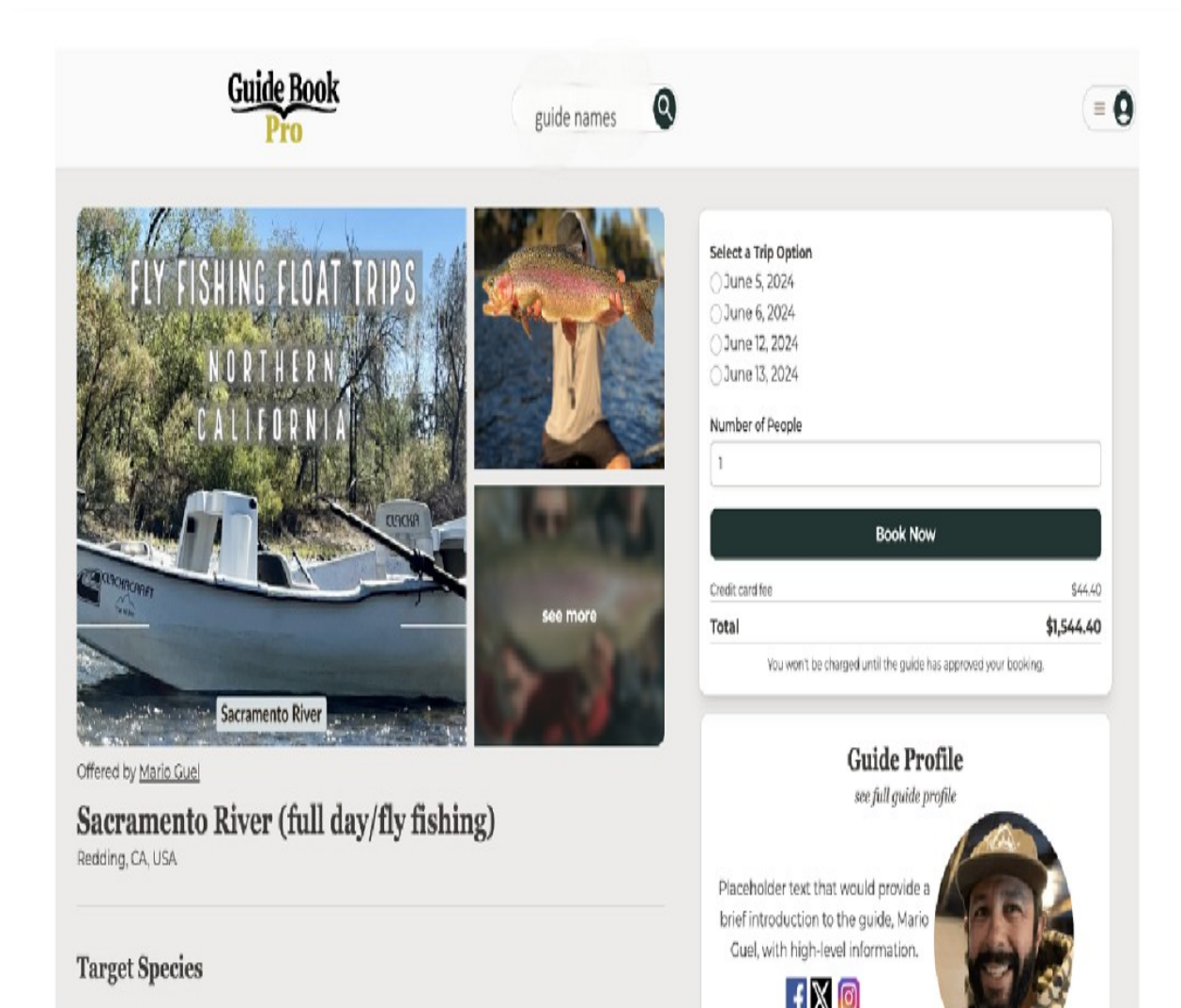confirmation message is shown

ALterntaive

unavaliable guide

The guide is not avaliable

Prototype:

Use description:

Use Case 10: Customer Selects Trip

Use Case Name: Customer Selects Trip
ID: 10
Importance Level: Medium
Primary Actor: Customer
Use Case Type: Detail, Essential

Stakeholders and Interests:

Customer: Wants to browse and select a trip for booking.

Website: Provides the interface for browsing and selecting trips.

Trip Provider: Offers various trips for customers to select from.

Brief Description: This use case describes how a customer selects a trip from the available options provided by the website.

Trigger: Customer navigates to the trips section of the website and selects a specific trip.

Type: External

Relationships:

Association: Customer

Include: None

Extend: None

Generalization: None

Normal Flow of Events:

The customer navigates to the trips section of the website.

The website displays a list of available trips to the customer.

The customer browses through the list of trips.

The customer selects a specific trip from the list.

The website processes the selection and provides additional details about the selected trip.

The customer reviews the details of the selected trip and confirms their choice.

Subflows: None Identified

Alternate/Exceptional Flows:

No Trips Available: If there are no trips currently available, the website notifies the customer and suggests checking back later or exploring other options.

Error Processing Selection: If there is an error processing the customer's selection, the website notifies the customer and prompts them to try again later or contact customer support for assistance.

A system Requirements:

FR004: Customer will be able to add payment method.

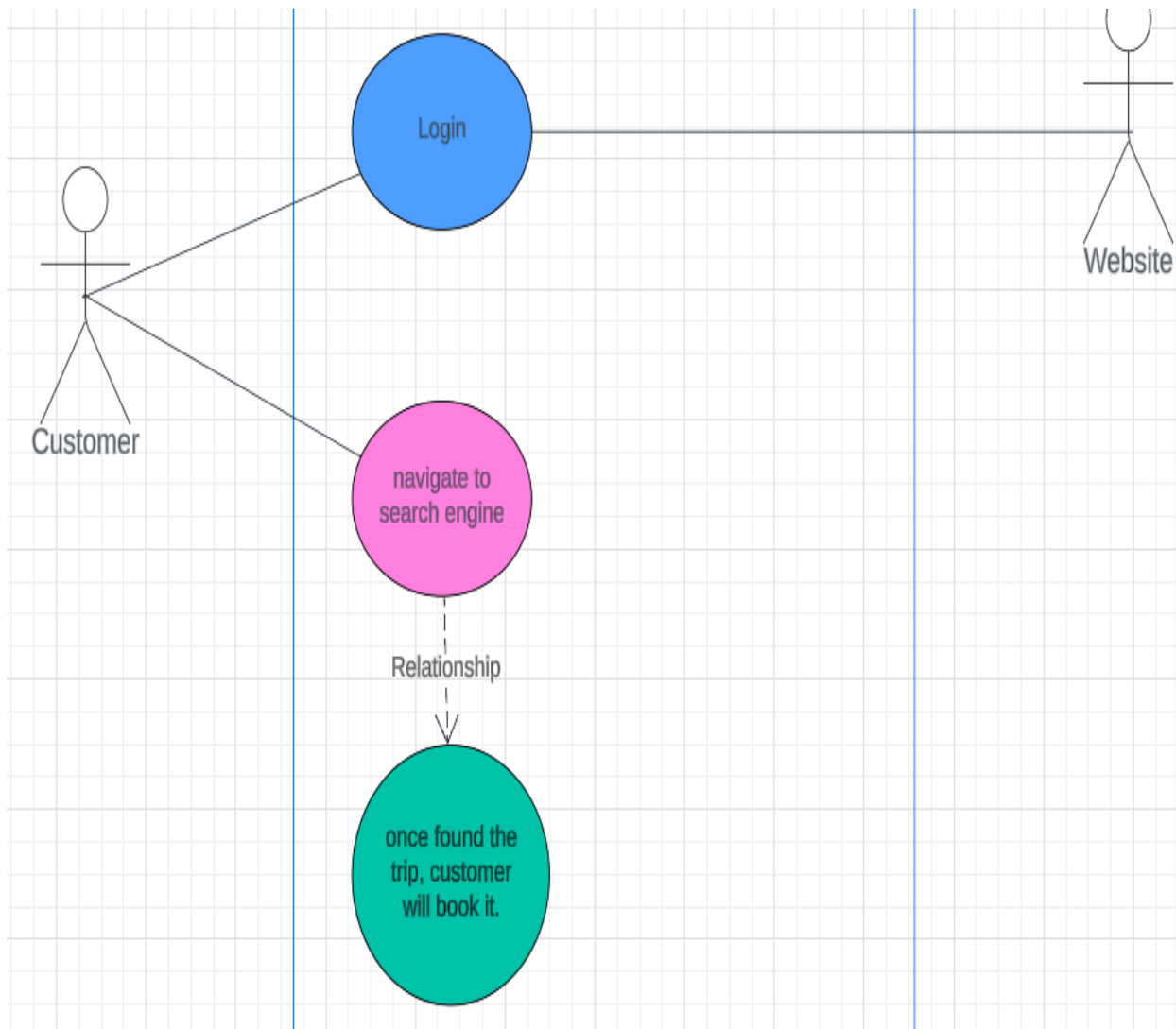FR013: Customer will be able to search for Pro trips by fish.

FR015: Customer will be able to search for Pro trips by Guide.

FR014: Customer will be able to search for Pro trips by destination.

Tace matrix:

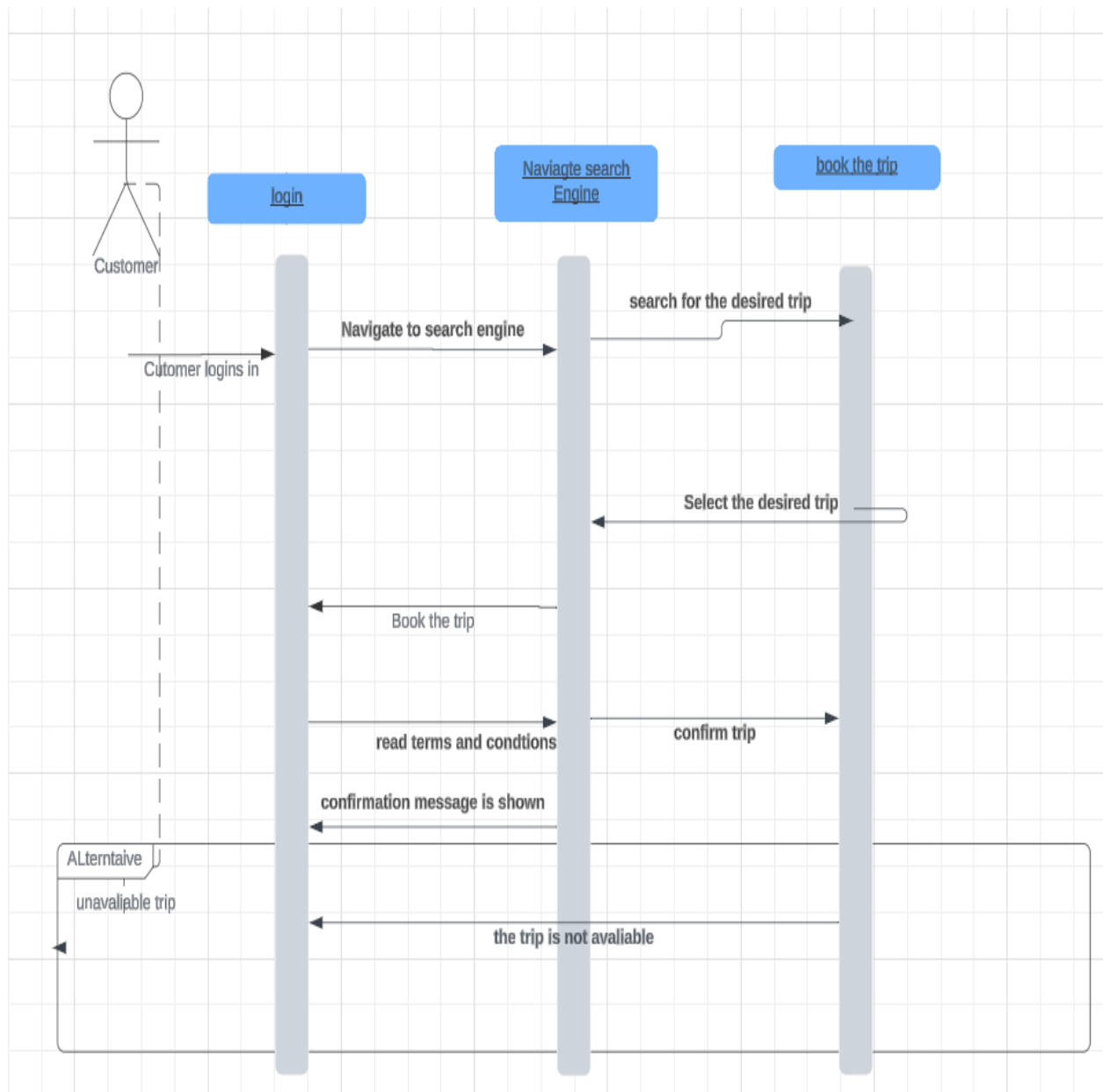|	Customer pays GuideBook Pro deposit	Customer searches by destination	Customer searches by fish	Customer searches by Guide	Customer selects trip
FR004: Customer will be able to add payment method.	X				
FR013: Customer will be able to search for Pro trips by fish.			X		
Customer will be able to search for Pro trips by Guide.				X	
FR014: Customer will be able to search for Pro trips by destination.		X			

Use Case Diagram:

Customer

Login

Website

navigate to
search engine

Relationship

once found the
trip, customer
will book it.

Sequence diagram:

Customer

login

Naviagte search Engine

book the trip

Cutomer logins in

Navigate to search engine

search for the desired trip

Select the desired trip

Book the trip

read terms and condtions

confirm trip

confirmation message is shown

ALterntaive

unavaliable trip

the trip is not avaliable

Prototype:

Select a Trip Option
○ June 5, 2024
○ June 6, 2024
○ June 12, 2024
○ June 13, 2024

Number of People

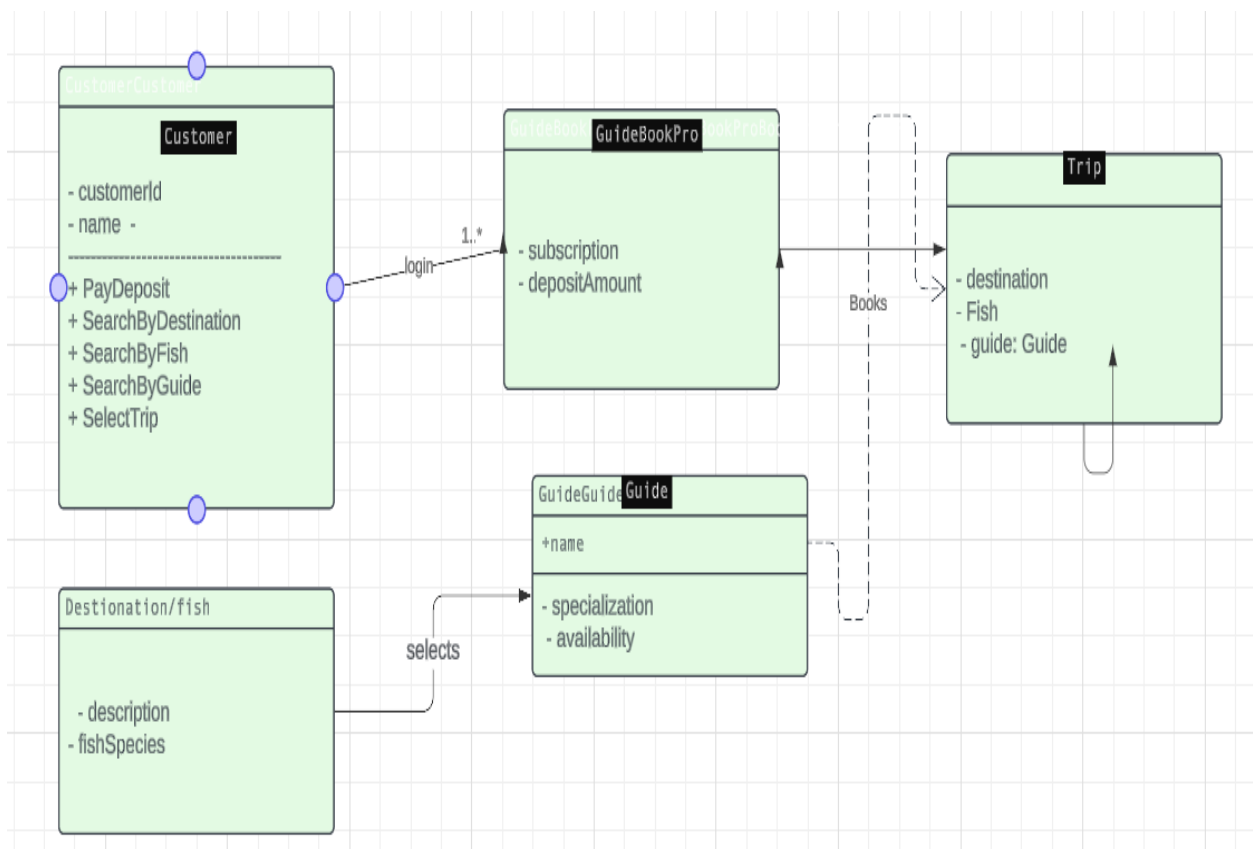| 1 |

Book Now

Credit card fee $44.40
Total   **$1,544.40**

You won't be charged until the guide has approved your booking.

Class diagram:

Customer
- customerId
- name -
_____
+ PayDeposit
+ SearchByDestination
+ SearchByFish
+ SearchByGuide
+ SelectTrip

GuideBookPro
- subscription
- depositAmount

1..*
login

Trip
- destination
- Fish
- guide: Guide

Books

Guide
+name
_____
- specialization
- availability

Destionation/fish
- description
- fishSpecies

selects

class diagram narrative:

In the guidebook system, there are different types of entities, including customers, trips, destinations, fish, guides, and the GuideBookPro service.

A "customer" is an individual using the system. Customers have their own unique ID, name, email, and other personal details. When customers wish to book a trip, they interact with the "GuideBookPro" service. This service manages subscription types and deposit amounts required for trips.

Each "trip" represents a specific journey with details such as destination, date, and guide information. While specific operations are not mentioned, we can assume functions like modifying trip details or canceling a trip may exist.

"Destinations" are locations where people may want to travel. Each destination has a name, description, and possibly information about the types of fish found there. Methods for retrieving destination information could be included.

"Fish" are different species that customers may be interested in encountering during their trips. Each fish type has a name and habitat details, aiding customers in finding suitable trips.

"Guides" are individuals who lead trips. Each guide has a name, specialization (e.g., fishing, hiking), and availability status, assisting customers in selecting appropriate guides.

Interactions occur among these entities. Customers interact with the GuideBookPro service and search for trips, destinations, fish, and guides. For example, a customer might search for a trip to a specific destination or led by a particular guide. Additionally, relationships indicating how many trips are associated with a destination and vice versa are mentioned.

Overall, this diagram provides an understanding of the system's structure, operations, and relationships among different components, guiding further development and communication among stakeholders.