ATILIM UNIVERSITY

2023-2024 FALL

SE321

Project – Phase 2

Travel Planner

VistaVoyage

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December, 30, 2023

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1. Description of The Project

As CodeVista Technologies, we will develop a Travel planner project. The name of this travel project is VistVoyage. Travel planning can be both an exciting and stressful process, and it is also a mobile and web-based application. Developing a travel strategy that fits your interests and budget may require some time, thought, and creativity. The goal of this project is to simplify, streamline, improve efficiency, and add enjoyment to the process of planning travel.

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The project will include real-time updates, intelligent suggestions, and an easy-to-use interface. Users will find it simple to establish and maintain travel plans with the UI. Users will find it simple to establish and maintain trip plans with the UI. Users can make travel plans based on their hobbies, various concepts, and budgets with the assistance of intelligent recommendations. Real-time updates will provide users with up-to-date information about their travel plans. They can easily and quickly organize their travel plans and make reservations from a single location because transportation and lodging are integrated. Additionally, users can record their adventures with notes, photos, and moments that they will never forget by keeping travel diaries. The project will also include gamification elements to make users' travel plans more entertaining. For example, users will be able to earn rewards or different coupons as they complete their travel plans. This feature will make users more interested in the travel planning process and increase their motivation, and since the user can find many features in the same application, they will be able to reach their wishes more easily.

In the conclusion, VistaVoyage is a tool that enhances travel experiences by offering digital advice that is specifically customized for travelers. Due to its several distinctive characteristics that are absent from other programs, the project stands apart from the rest. The project will be more unique, effective, enjoyable, and user-friendly with these elements. Travel Planner makes it easier, more enjoyable, and more personalized than ever for consumers to plan their travels.

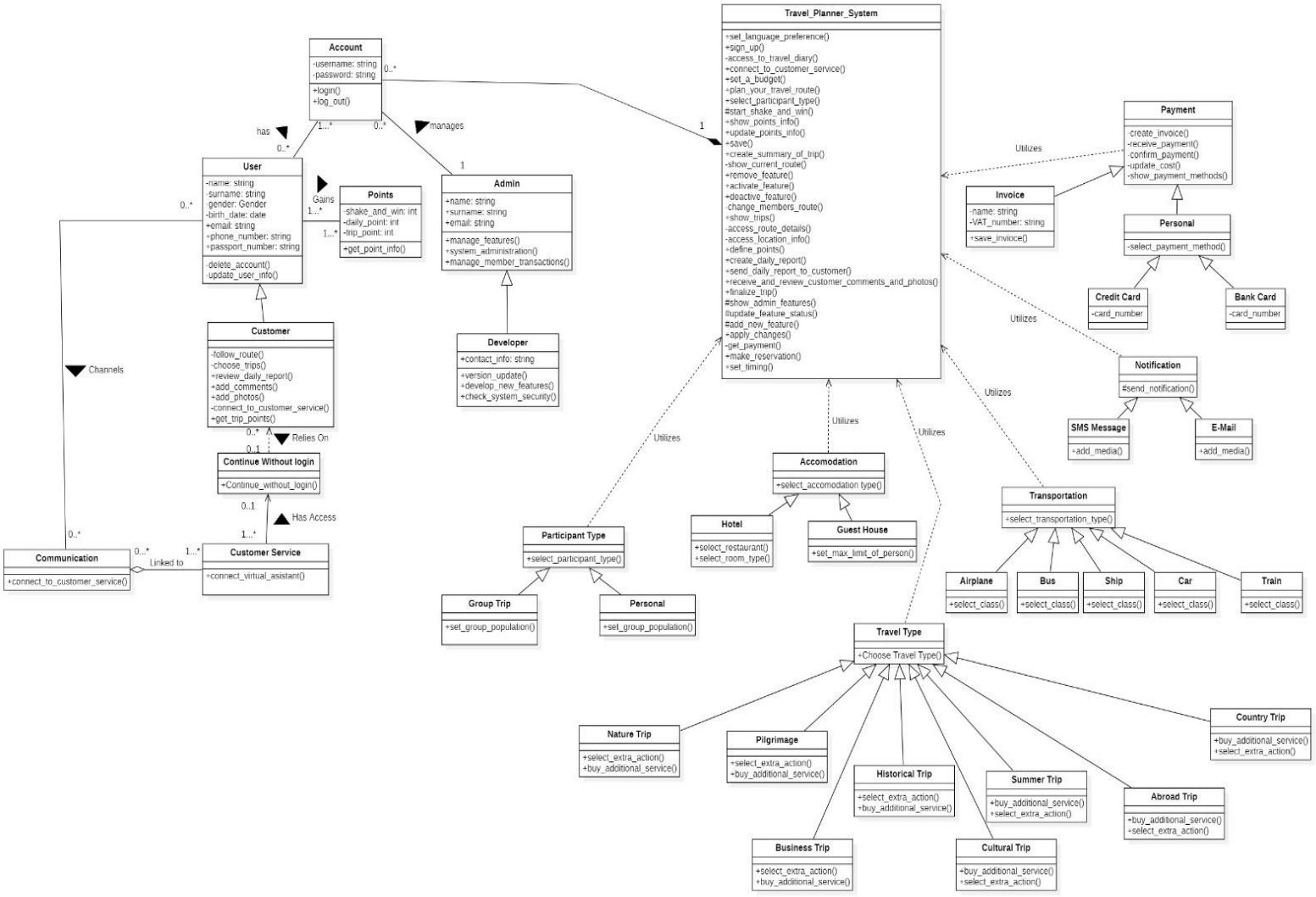
2. Design

These designs were revised and restructured based on the feedback received during Phase-1.

2.1. Design Class Diagram

We will examine Human-Generated Design Class Diagrams, Interaction Diagrams, State Diagrams, High Level Architecture (HLA), and ChatGPT Generated Requirements List.

2.1.1. Human-Created Class Diagram

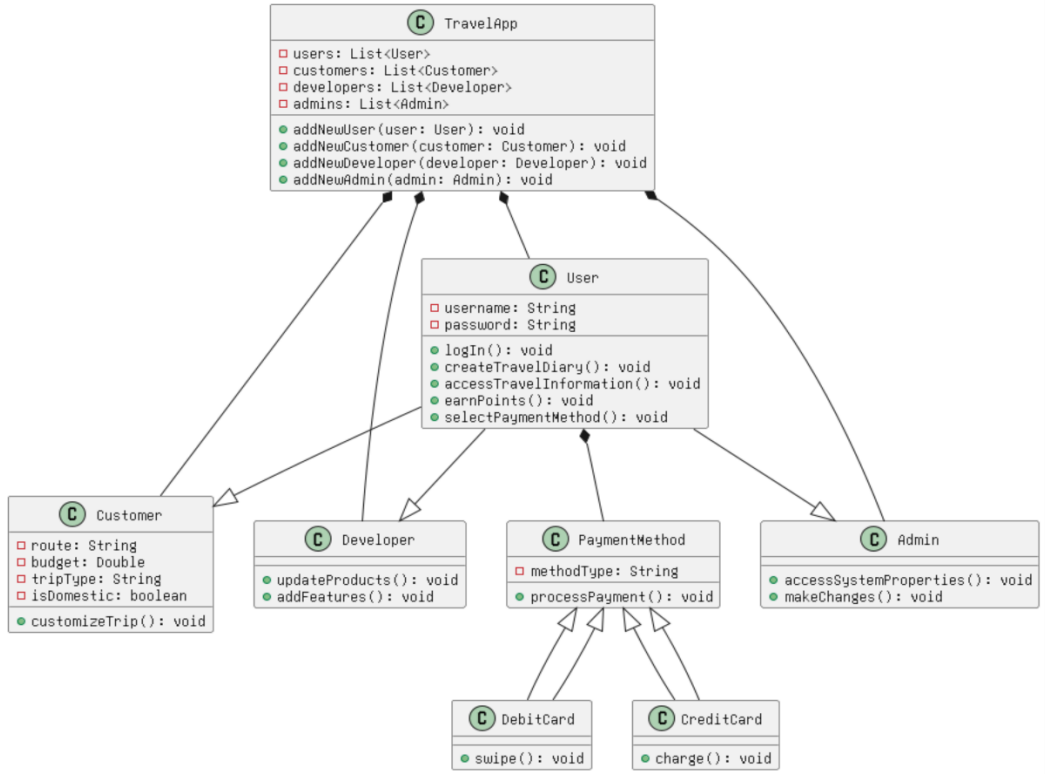


2.1.2. ChatGPT- Generated Class Diagram

Link to Initial Prompt and ChatGPT output	*https://chat.openai.com/share/e3fe4b11-0bd9-403f-ae26-fc91c3308780*

Link to Most Satisfactory Prompt and ChatGPT output	*https://chat.openai.com/share/2920e37a-d2d8-4fe9-afed-a73a67a6ac37*

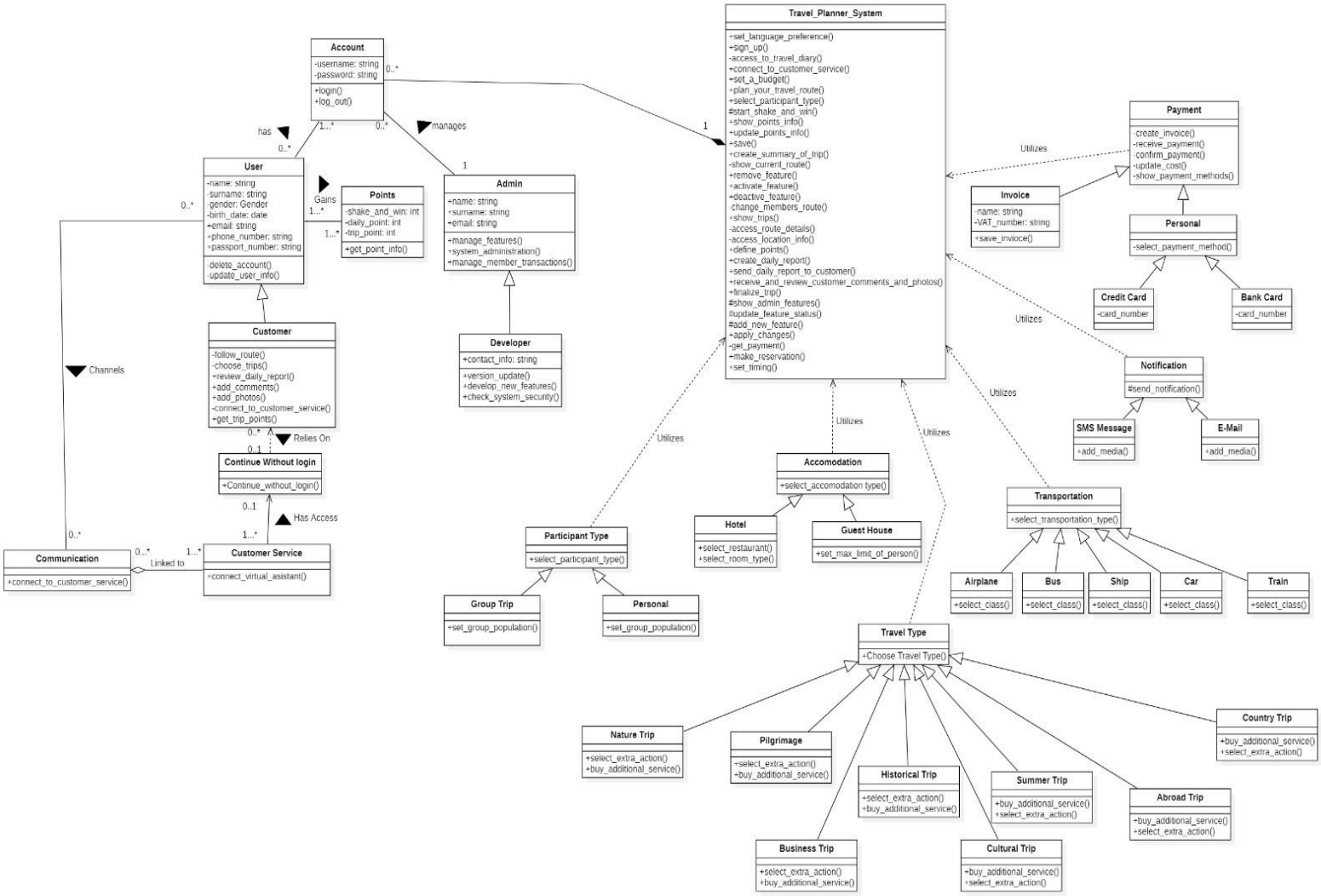
Class Diagram(s)



Lessons Learned

We introduced our own actors and gave our requirements in the initial prompt, and we saw that it was not enough. Later, we gave more details to improve it in the satisfaction section, and although we could not reach it completely, we found it closer to the result we wanted.

2.1.3. Class Diagram(s)

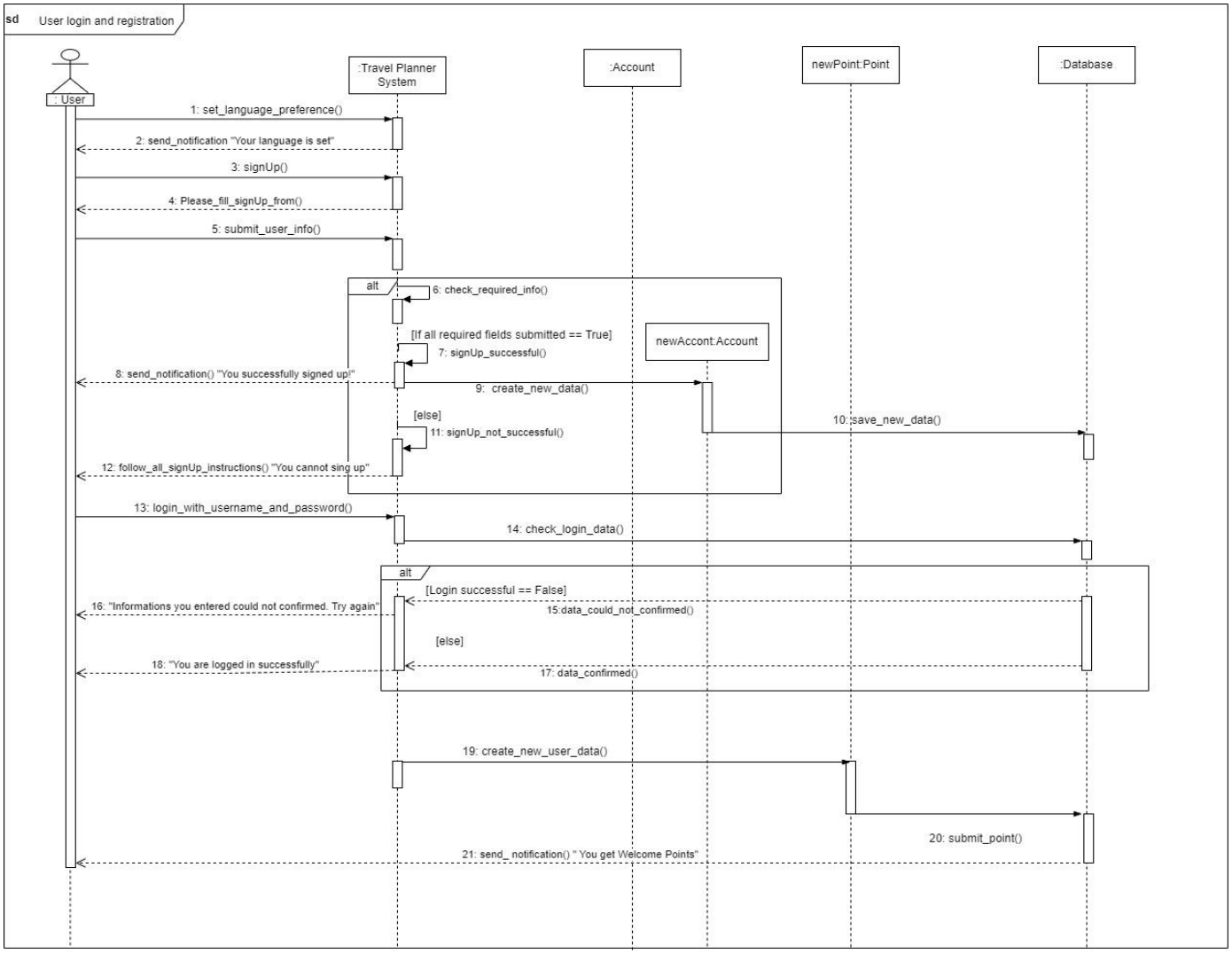


2.2. Interaction Diagrams

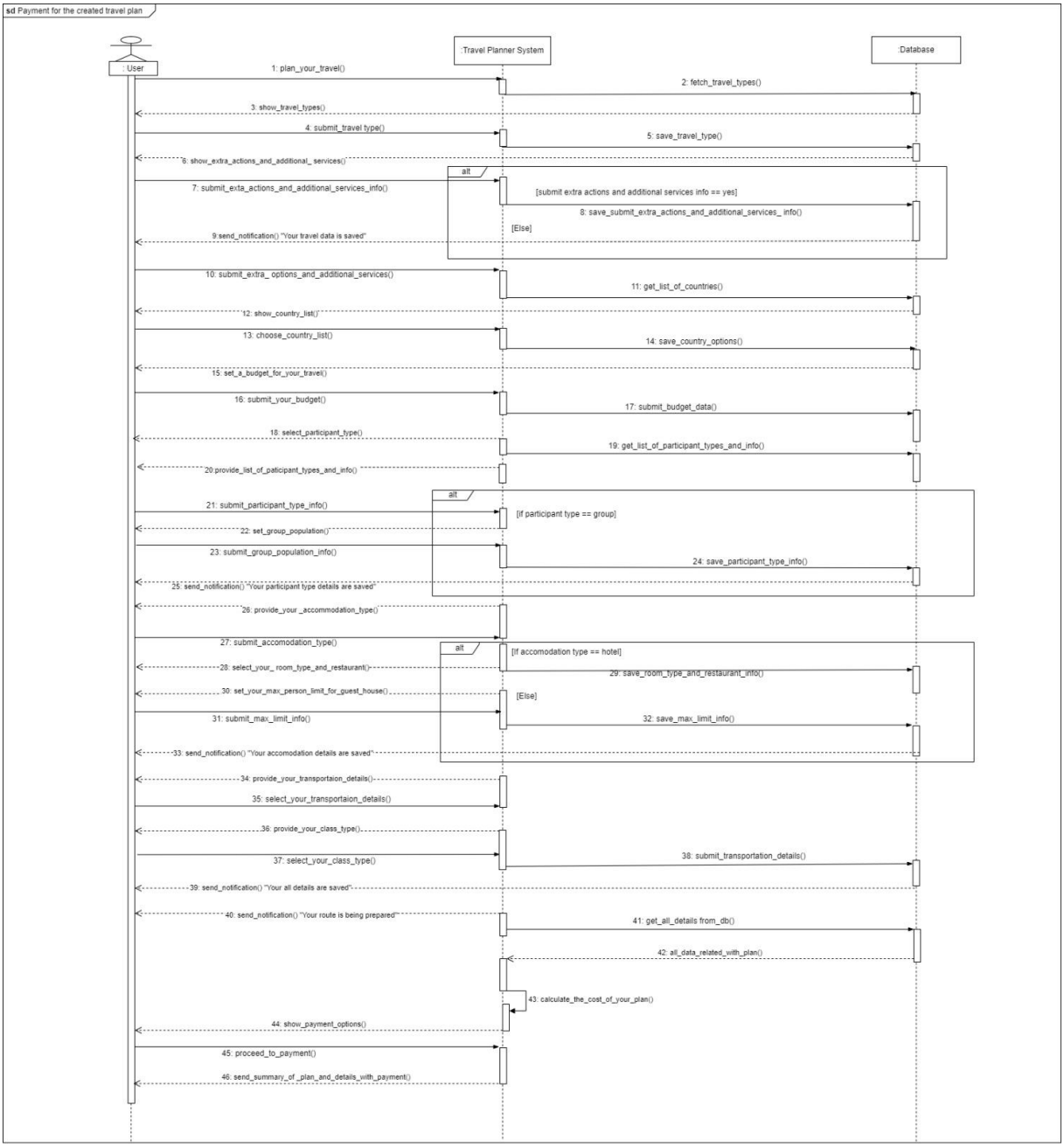
We included Login/SignUp and payment pages. Below are the sequence diagrams.

2.2.1. Human-Created Interaction Diagram

LogIn/SignUp:



Payment:



2.2.2. ChatGPT- Generated Interaction Diagram

Interaction Diagram 1

Link to Initial Prompt and ChatGPT output	*https://chat.openai.com/share/f57b2eed-7791-4cf5-b72e-50cf441225e4*

Link to Most Satisfactory Prompt and ChatGPT output	*https://chat.openai.com/share/181d1474-7b93-4a2a-a8f2-7d99bc04e640*

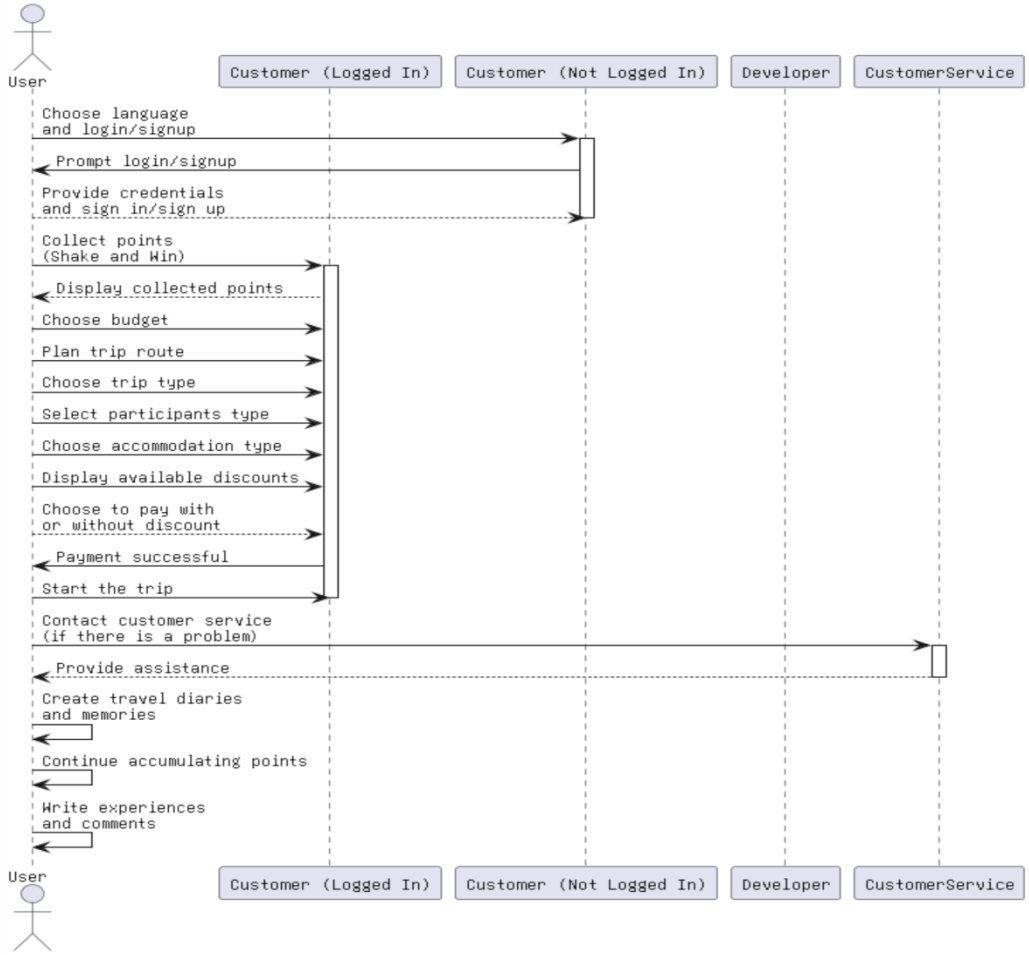
Interaction Diagram 2

Link to Initial Prompt and ChatGPT output	*https://chat.openai.com/share/383bc62c-c784-4664-b161-54ea8793bb73*

Link to Most Satisfactory Prompt and ChatGPT output	*https://chat.openai.com/share/9fb15761-27e4-4c63-8240-f9503d299963*

Interaction Diagrams

LogIn/SignUp:



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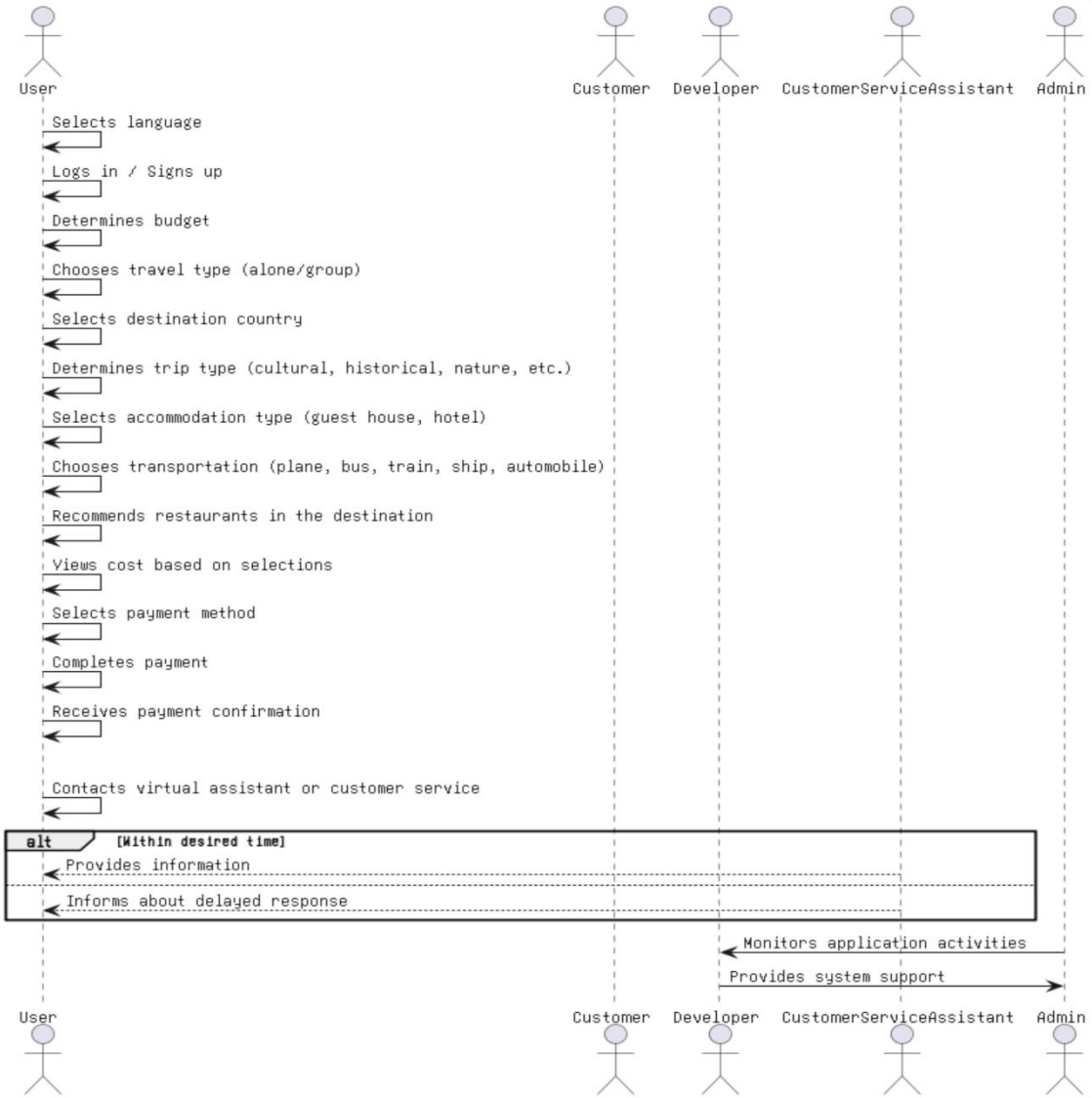
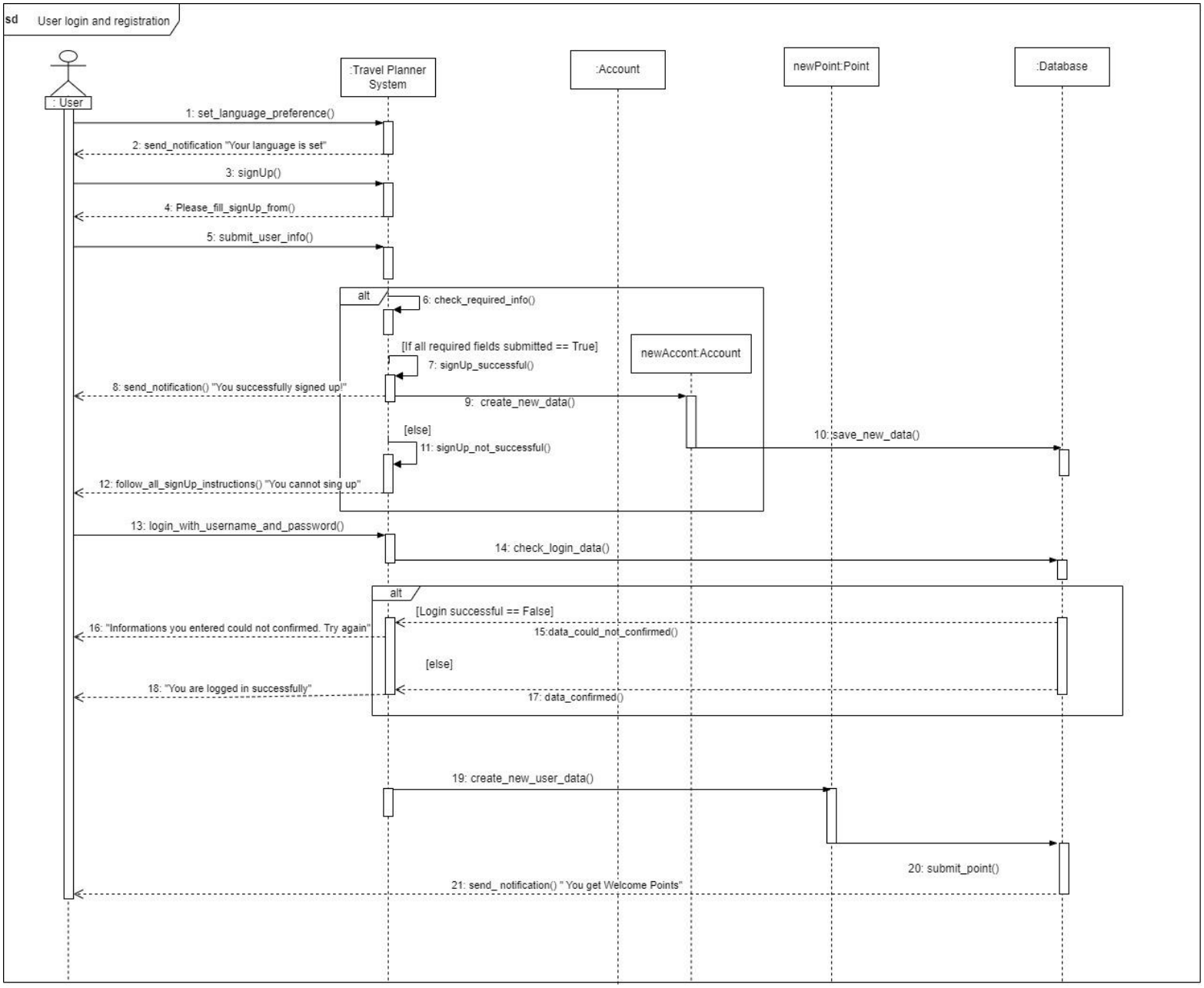


Lessons Learned

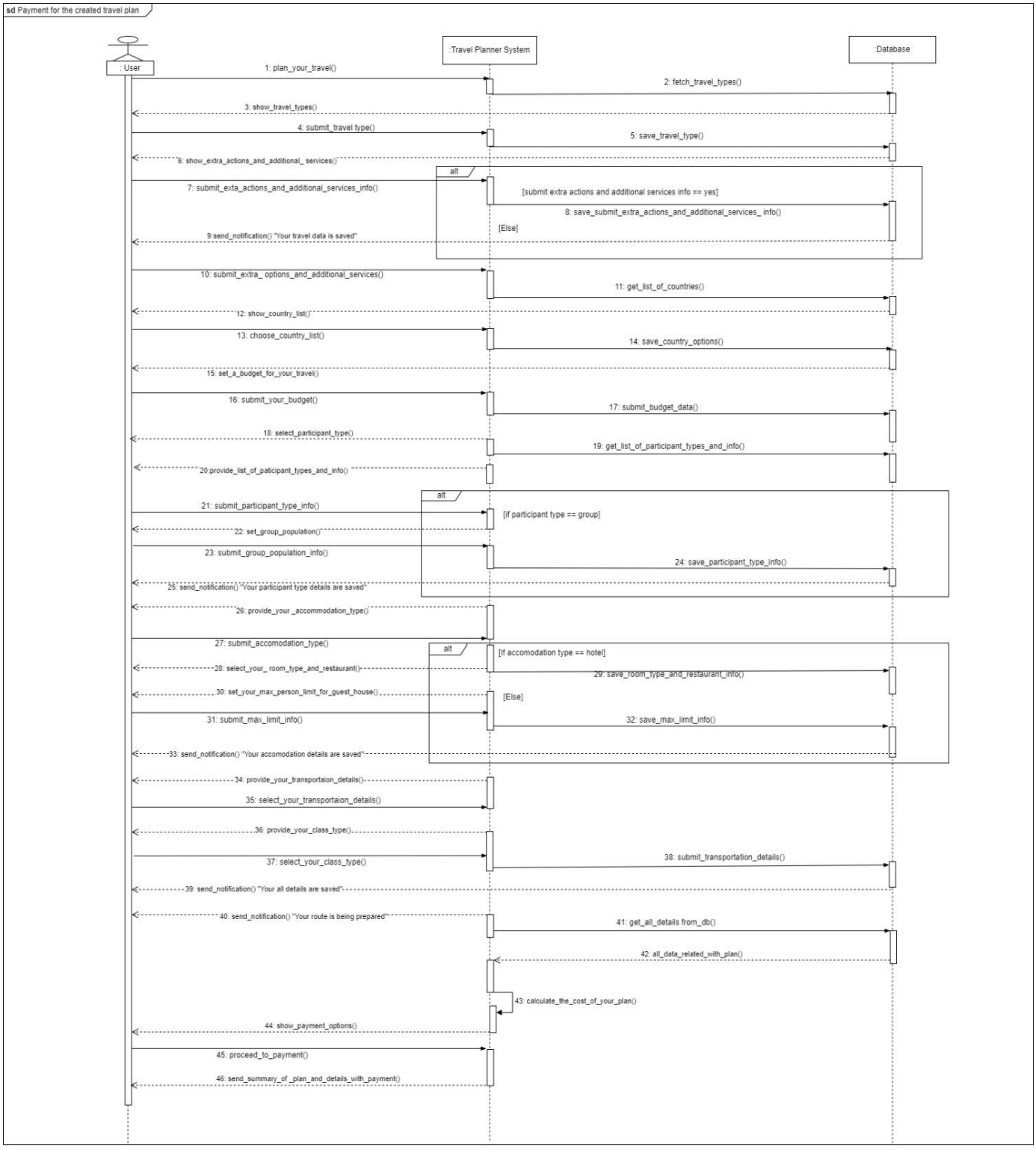
We got very bad results because of the prompts we wrote in the initial sections, but when we explained what to do step by step more clearly, the result was closer. We did not find the directions given to us by ChatGPT and the tables drawn from Draw.io correct, because most of the lifelines were wrong or in the wrong direction. We think our diagram is more accurate than ChatGPT's diagrams. Even though we think it is wrong, there are similarities.

2.2.3. Interaction Diagrams

LogIn/SignUp:



Payment:

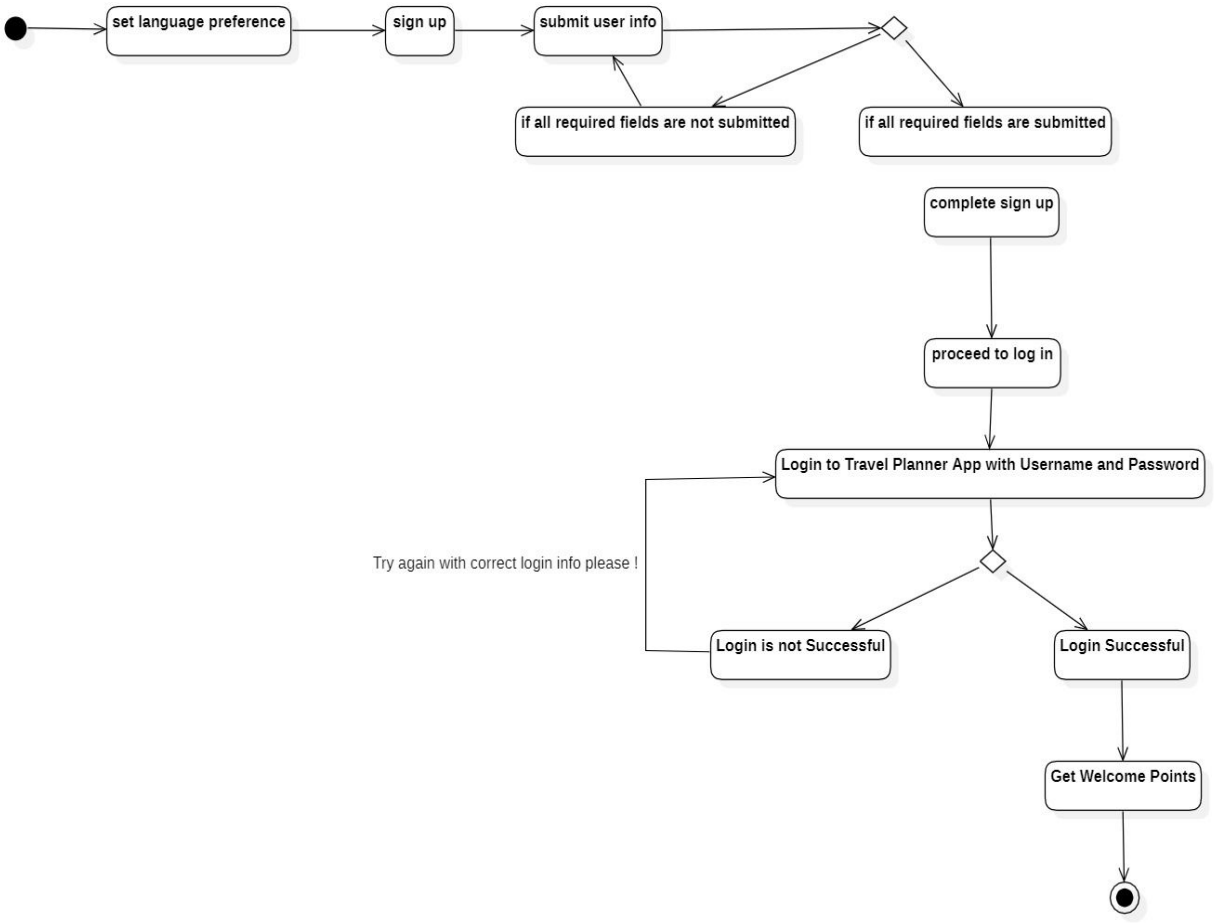

sd Payment for the created travel plan
: User
:Travel Planner System
:Database
1: plan_your_travel()
2: fetch_travel_types()
3: show_travel_types()
4: submit_travel type()
5: save_travel_type()
6: show_extra_actions_and_additional_ services()
alt
7: submit_exta_actions_and_additional_services_info()
[submit extra actions and additional services info == yes]
8: save_submit_extra_actions_and_additional_services_ info()
[Else]
9:send_notification() "Your travel data is saved"
10: submit_extra_ options_and_additional_services()
11: get_list_of_countries()
12: show_country_list()
13: choose_country_list()
14: save_country_options()
15: set_a_budget_for_your_travel()
16: submit_your_budget()
17: submit_budget_data()
18: select_participant_type()
19: get_list_of_participant_types_and_info()
20:provide_list_of_paticipant_types_and_info()
alt
21: submit_participant_type_info()
[if participant type == group]
22: set_group_population()
23: submit_group_population_info()
24: save_participant_type_info()
25: send_notification() "Your participant type details are saved"
26: provide_your _accommodation_type()
27: submit_accomodation_type()
alt
[If accomodation type == hotel]
28: select_your_ room_type_and_restaurant()
29: save_room_type_and_restaurant_info()
30: set_your_max_person_limit_for_guest_house()
[Else]
31: submit_max_limit_info()
32: save_max_limit_info()
33: send_notification() "Your accomodation details are saved"
34: provide_your_transportaion_details()
35: select_your_transportaion_details()
36: provide_your_class_type()
37: select_your_class_type()
38: submit_transportation_details()
39: send_notification() "Your all details are saved"
40: send_notification() "Your route is being prepared"
41: get_all_details from_db()
42: all_data_related_with_plan()
43: calculate_the_cost_of_your_plan()
44: show_payment_options()
45: proceed_to_payment()
46: send_summary_of _plan_and_details_with_payment()

2.3. State Diagrams

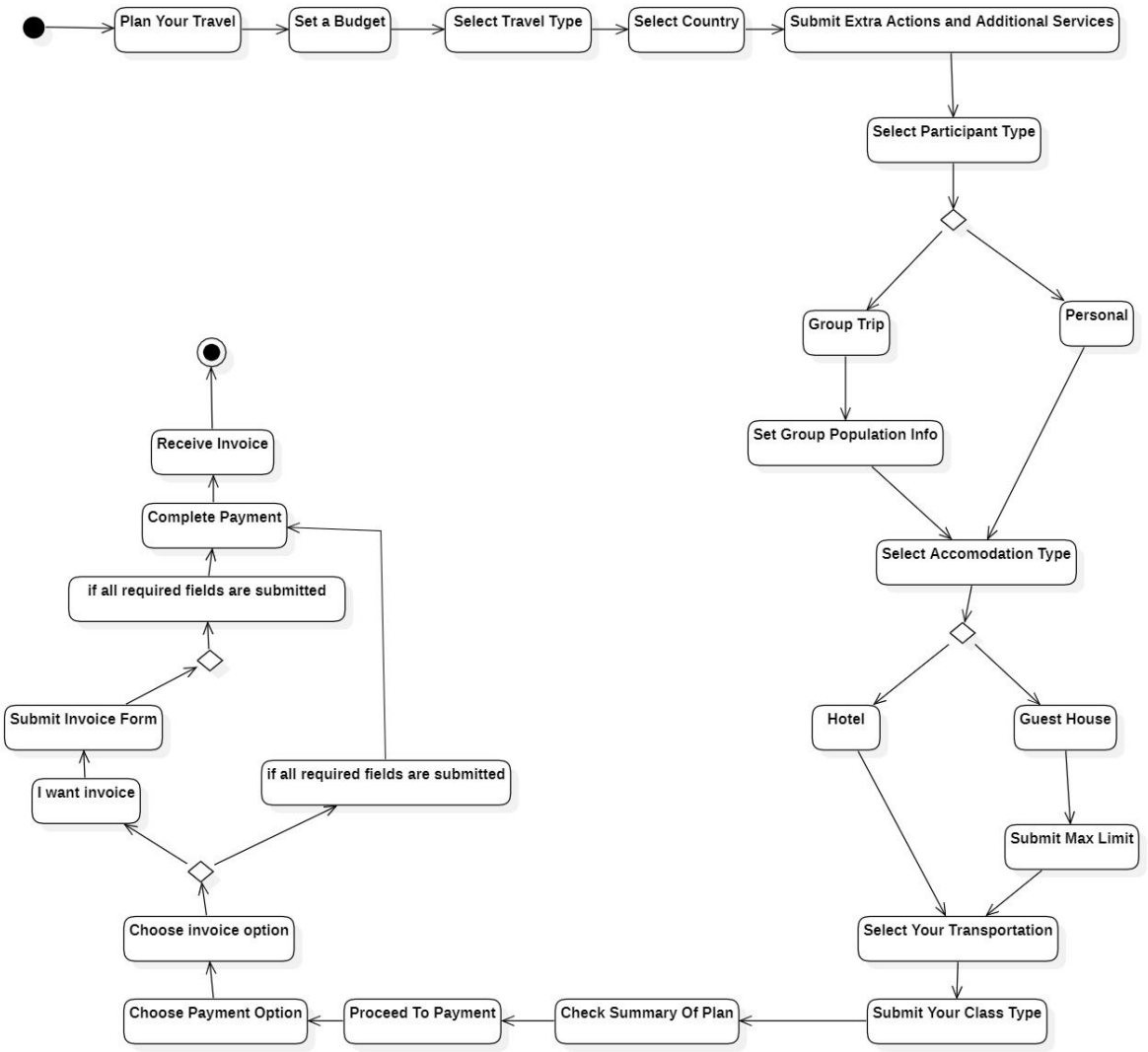
We included Login/SignUp and payment pages. Below are the state diagrams.

2.3.1. Human-Created State Diagram

Sign/In:



Payment:


Plan Your Travel
Set a Budget
Select Travel Type
Select Country
Submit Extra Actions and Additional Services
Select Participant Type
Group Trip
Personal
Set Group Population Info
Select Accomodation Type
Hotel
Guest House
Submit Max Limit
Select Your Transportation
Submit Your Class Type
Check Summary Of Plan
Proceed To Payment
Choose Payment Option
Choose invoice option
I want invoice
Submit Invoice Form
if all required fields are submitted
if all required fields are submitted
Complete Payment
Receive Invoice

2.3.2. ChatGPT- Generated Interaction Diagram

State Diagram 1

Link to Initial Prompt and ChatGPT output	*https://chat.openai.com/share/da62206d-15a7-4cfd-80f1-6792e87cb7de*

Link to Most Satisfactory Prompt and ChatGPT output	*https://chat.openai.com/share/67559f36-ea78-4979-a068-8343037fa776*

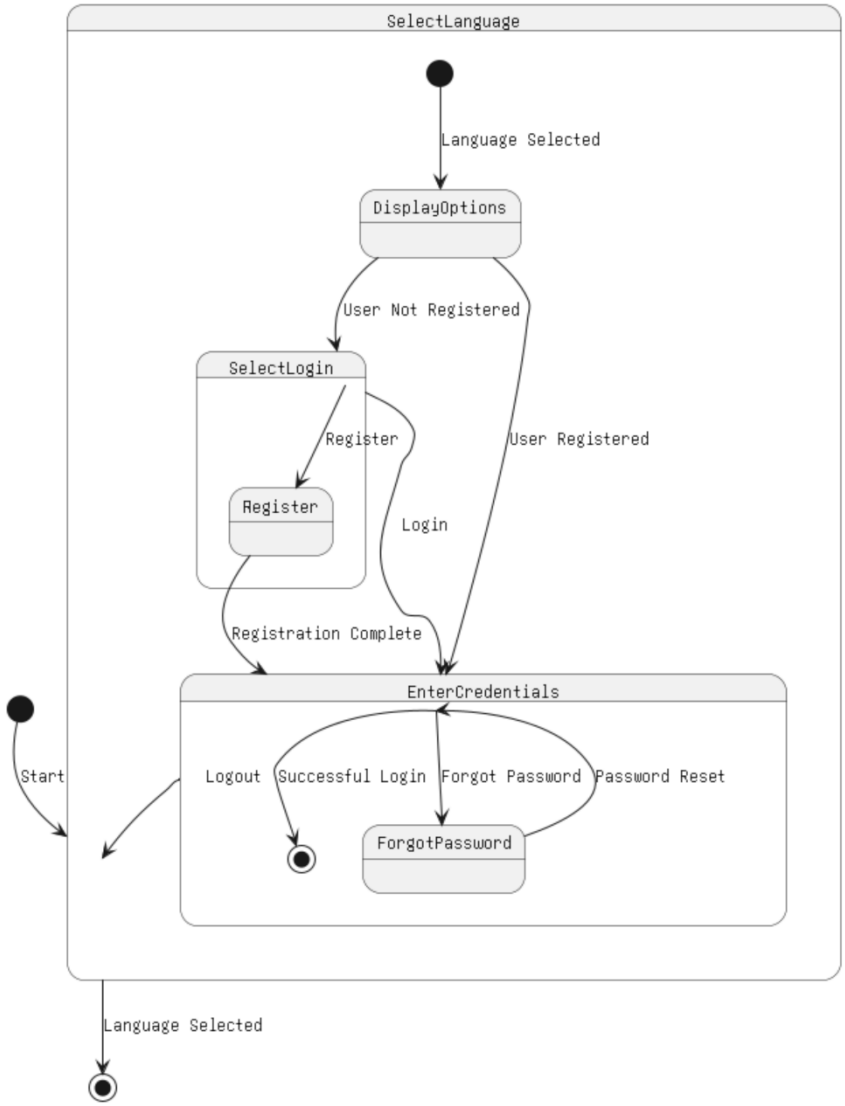
State Diagram 2

Link to Initial Prompt and ChatGPT output	*https://chat.openai.com/share/26c0d082-099d-4a34-a5c4-60fba9d6ceee*

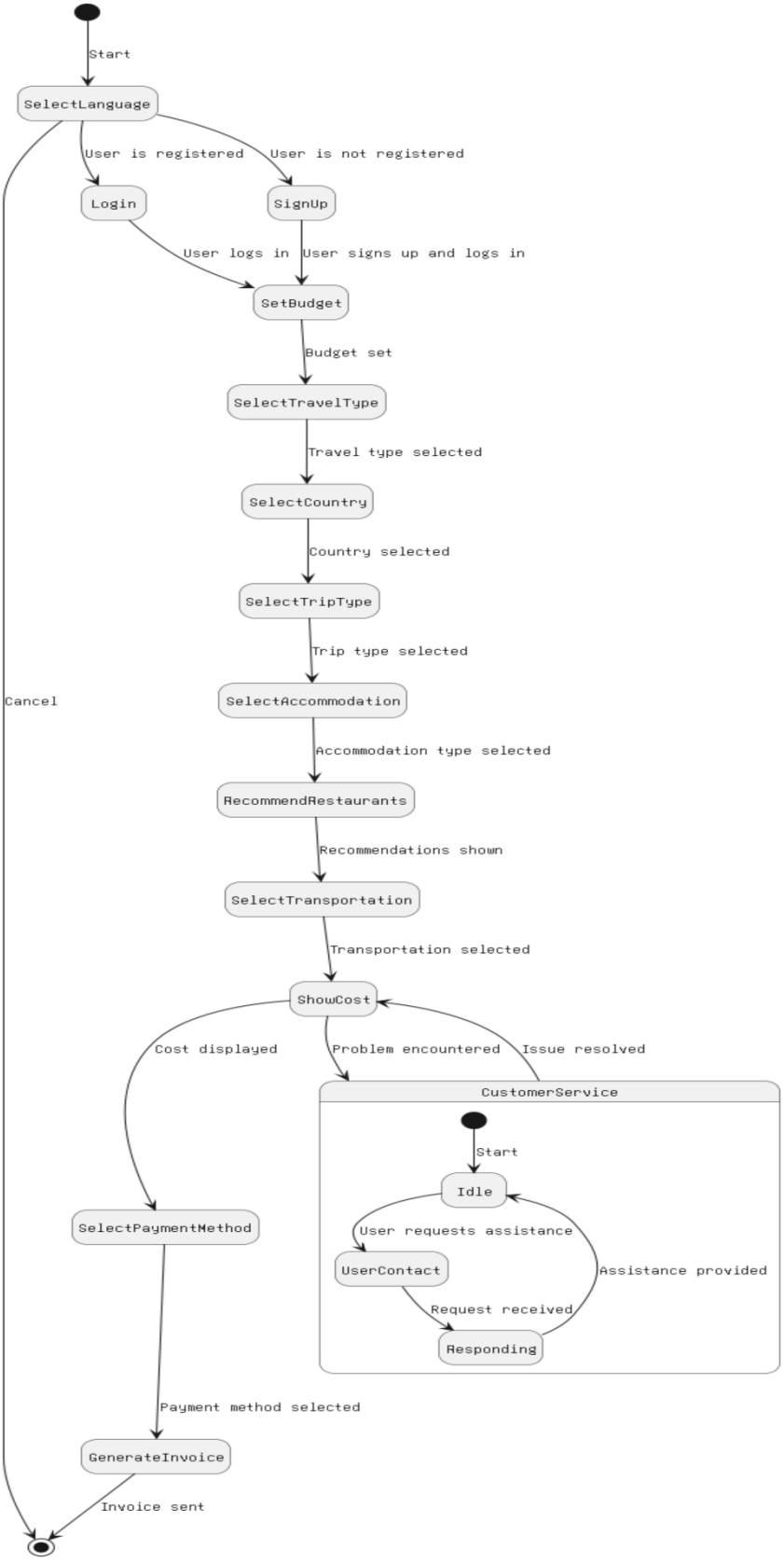
Link to Most Satisfactory Prompt and ChatGPT output	*https://chat.openai.com/share/30396c2e-47cb-4cd2-a153-5a994fdcf89e*

State Diagrams

LogIn/SignUp:



Payment:

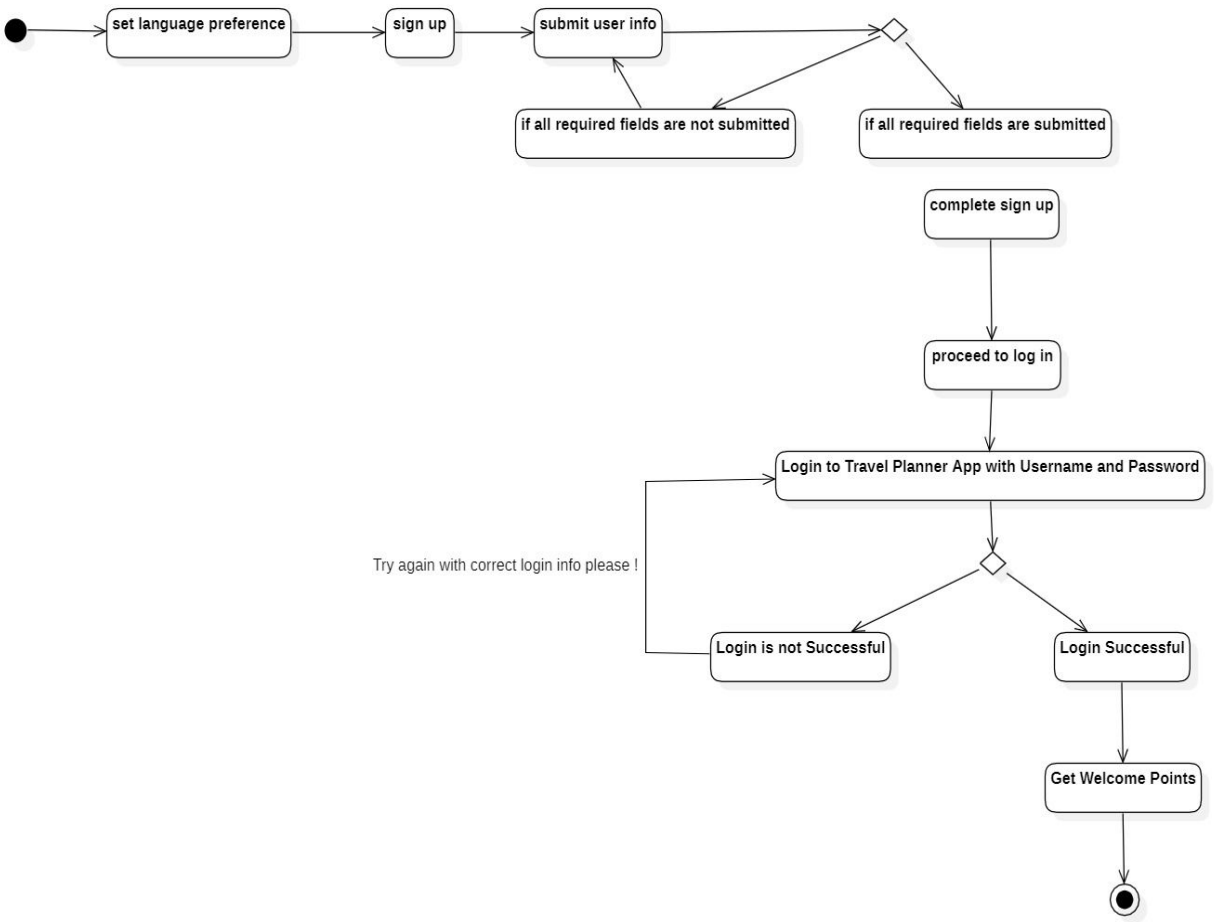

Start
SelectLanguage
User is registered
User is not registered
Login
SignUp
User logs in
User signs up and logs in
SetBudget
Budget set
SelectTravelType
Travel type selected
SelectCountry
Country selected
SelectTripType
Trip type selected
SelectAccommodation
Cancel
Accommodation type selected
RecommendRestaurants
Recommendations shown
SelectTransportation
Transportation selected
ShowCost
Cost displayed
Problem encountered
Issue resolved
CustomerService
Start
Idle
User requests assistance
UserContact
Assistance provided
Request received
Responding
SelectPaymentMethod
Payment method selected
GenerateInvoice
Invoice sent

Lessons Learned

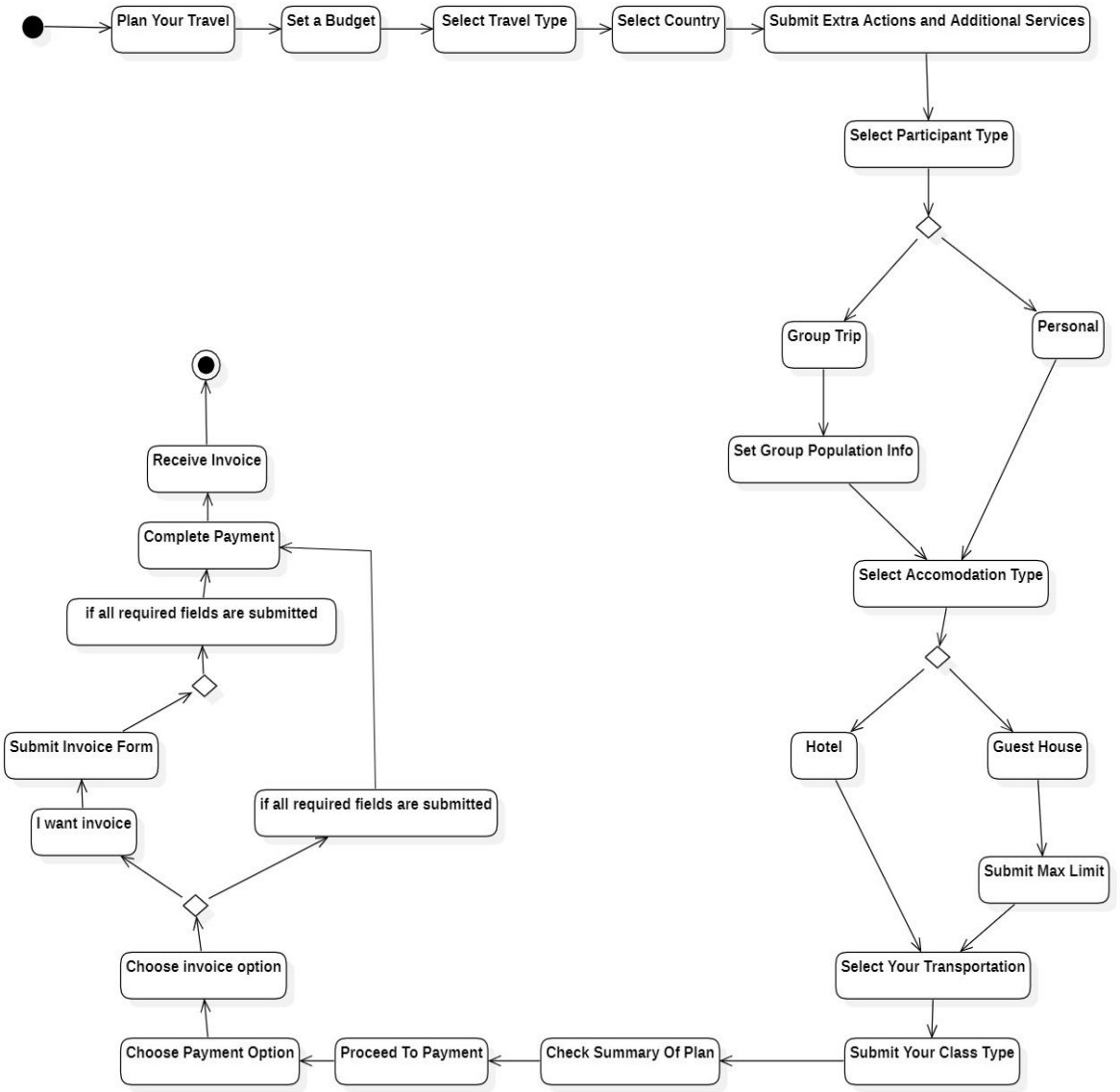
To obtain the state diagram, we explained in detail the user's features such as login and payment, such as login and payment, by providing the explanation functionally, improving the initial part and giving detailed features step by step, with the most accurate prompt so that the user could draw the correct diagram, but the results did not satisfy us. The results do not match our desired requirements. It is not surprising at first for our explanations of its capacity to create an accurate state diagram, but after developing the prompt I can say that ChatGPT disappointed us in the same way. It is very inadequate compared to the diagram we drew.

2.3.3. State Diagrams

Sign/In:

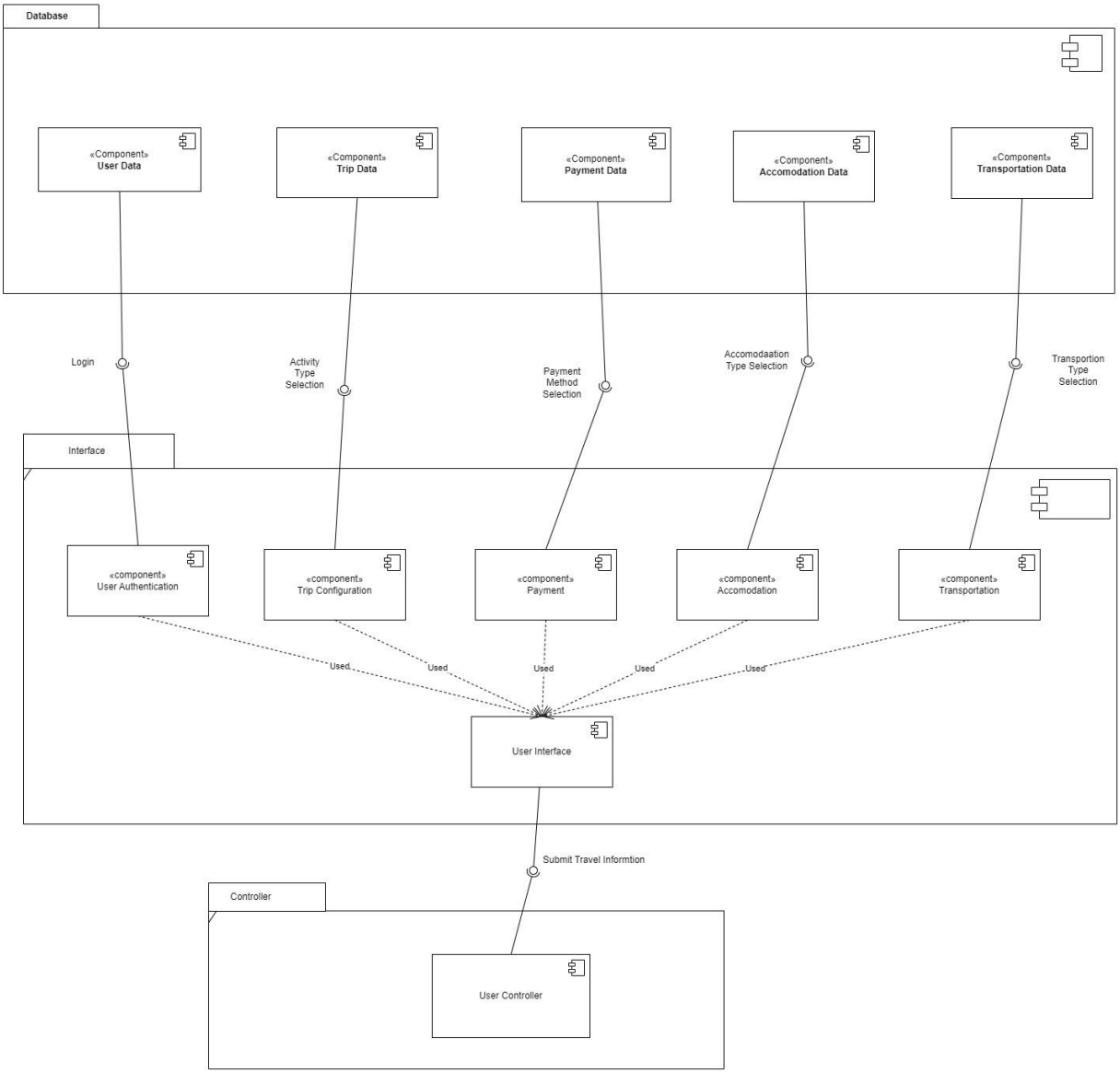


Payment:


Plan Your Travel
Set a Budget
Select Travel Type
Select Country
Submit Extra Actions and Additional Services
Select Participant Type
Group Trip
Personal
Set Group Population Info
Select Accomodation Type
Hotel
Guest House
Submit Max Limit
Select Your Transportation
Submit Your Class Type
Check Summary Of Plan
Proceed To Payment
Choose Payment Option
Choose invoice option
I want invoice
Submit Invoice Form
if all required fields are submitted
if all required fields are submitted
Complete Payment
Receive Invoice

2.4. High-level Architecture (HLA)

2.4.1. Human-Created HLA

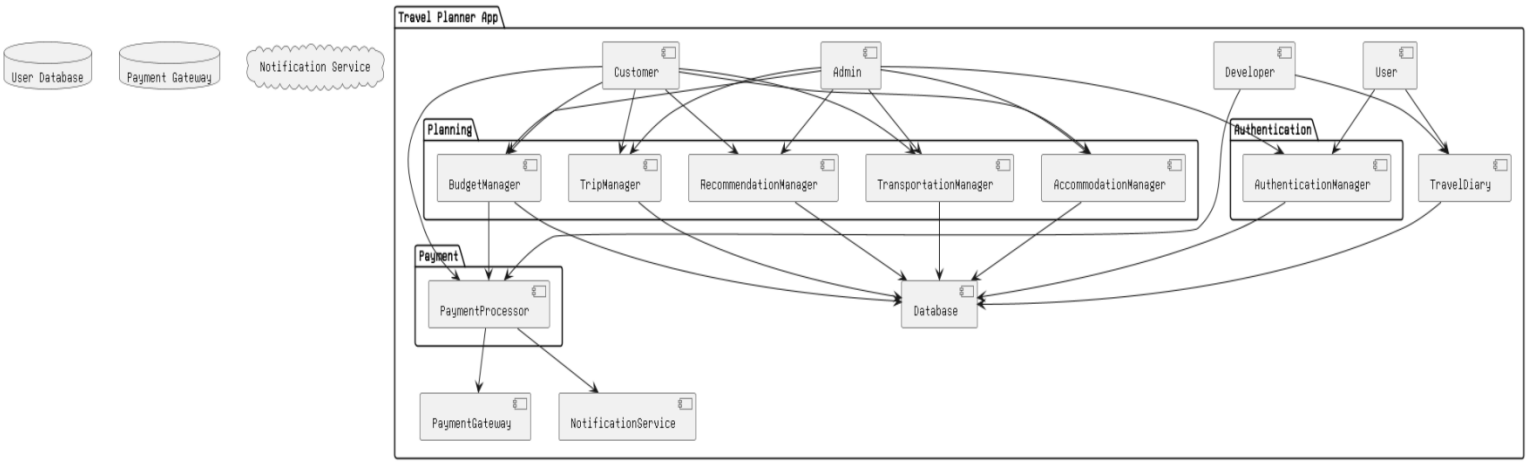


2.4.2. ChatGPT- Generated HLA

Link to Initial Prompt and ChatGPT output	*https://chat.openai.com/share/f93aa2c0-f705-46d6-8c97-918e292da0f1*

Link to Most Satisfactory Prompt and ChatGPT output	*https://chat.openai.com/share/cea73ddc-e010-449d-b0f9-de1d9168dedc*

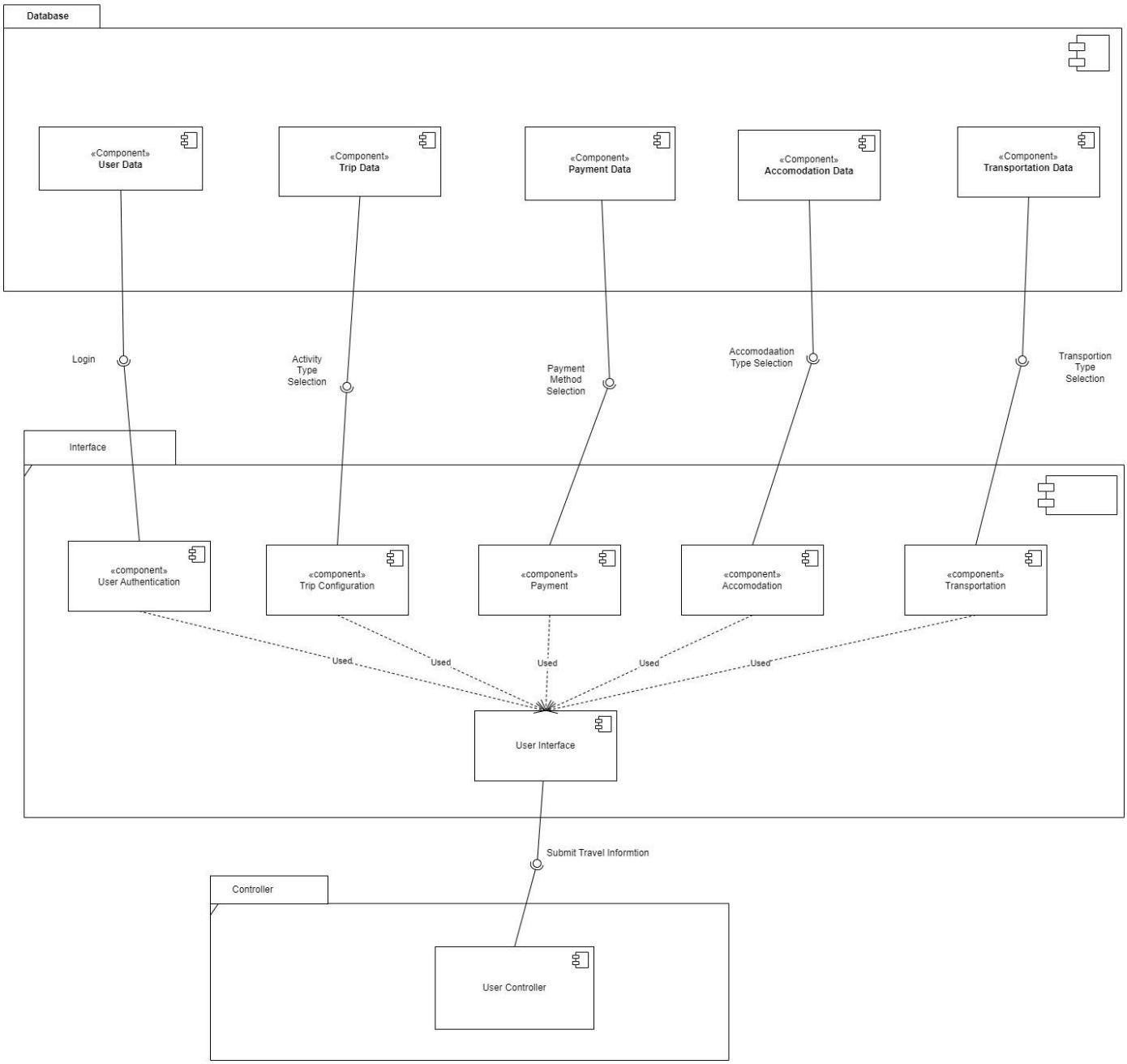
High-Level Architecture



Lessons Learned

First, we introduced our VistaVoyage application, then we wrote its functions. The result for initial did not surprise us that much. Then, we developed this prompt and asked for the features we wanted (login, payment...) more clearly. The component diagram turned out better than we expected, the last diagram we received. But even though it had more complex features, it simplified it too much. At this point, it remained simple compared to the diagram we had drawn, but some parts were already the same.

3.6.3. High-Level Architecture



References

Athuraliya, A. (2023, January 5). *The easy guide to component diagrams*. Creately Blog. https://creately.com/blog/software-teams/component-diagram-tutorial/

A simple guide to drawing your first state diagram (with examples) | Nulab. (n.d.). Nulab. https://nulab.com/learn/software-development/a-simple-guide-to-drawing-your-first-state-diagram-with-examples/

IBM documentation. (n.d.). https://www.ibm.com/docs/en/rsm/7.5.0?topic=structure-class-diagrams