Vanier College Faculty of Science and Technology System Development 420-436-VA

Deliverable 03

Green Team

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In collaboration with Muhammad Zahid Hussain

We, the Green Team, certify that this assignment is our own work

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Executive Overview

This deliverable document will go over the documentation of the technical parts of the web application that will be created along the project and the revised business problems after a thorough exchange of information with our client concerning the current system and the new one.

It starts with a summary description of the project's client, Muhammad Zahid Hussain, and his travel agency, *Voyages Zawss Travel & Tours*, which offers services that cover booking flights and lodgings, guiding their customer to local tour agencies in their desired place of travel. They use *Saber & Asmodeus*, software to process the quotes and other travel services, and Excel as a local manual database since their computer knowledge is limited.

The Business problems have been revised with a clearer understanding of our client's current system and its processes. The problems are still similar to the aforementioned ones in the previous deliverable which are a web application currently incomplete, a lack of any features that would help the communication between customers to the agency, and a lack of an ability to gather marketing leads. For our client's workflow fluidity and efficiency, implementation of features such as customer information-collecting forms for the booking and quotes, the return of results to the customers, and the creation of both customer and admin profiles. As for customer support, a *Contact Us* page will be added. All of these functionalities with other basic page navigation will compose the web application which will be search engine optimized to have more online presence.

This document also includes descriptions of system processes. Describing all features that can be done using the future web application as a client and admin.

The Appendices listed are documentations of the technical parts which will be used as templates for our codes: Appendix 1 showcases the system diagram for the entire information system; Appendix 2 will present a Unified Modeling Language (UML) diagrams of said system; Appendix 3 contains use case templates based use cases from the system diagram; Appendix 4 demonstrates the Class diagram and Appendix 5 will contain screenshots from the system, forms, and documents used by the client.

Summary Description of the Client

Muhammad Zahid Hussain owns a travel agency named Voyages Zawss located in Montreal and composed of two other employees. His agency has the purpose of booking tickets and helping the process of their travel. They average around 25 clients per day, which are mostly travelers and tourists, with fluctuation during pre-holidays.

Mr. Zahid is not tech savvy and mostly does all his work manually through phone, emails, text messaging, Microsoft Word, and Microsoft Excel. Most clients who want to book tickets contact him through the phone and he collects their information and stores it in Excel sheets. After collecting the info, he uses *Amadeus* and *Sabre* to check prices for the ticket and sends a quote to the client through email because the prices are not fixed and vary depending on multiple factors, such as destination, number of passengers, etc.

Business Problem

Now that we have a better understanding of how the client's current system works, we have revised the business problem. Now, our Project intends to solve the following business problems of our client:

- It is to replace the current uncompleted website of the agency
- There is no function/process to collect customers' information/request to make a travel quote
- There is no function for the agency to return responses to customers, whether its a quote or response from "Contact Us"
- There is no ability to gather leads for marketing with proper consent
 - An example of this may be requesting an email for promotions at checkout.
 - In need of a search engine optimization (SEO)

Our client's business service goes as is: Customers request quotes with their provided information (Number of People, Place of Travel, Hotel Requirement); The Agency collects said information; The Agency processes the information through the *Sabre* Software to make a quote; The Agency sends the created quote to the customer; The customer pays the received quote.

Narrative Description of the Present Information System

To book a trip, customers of Voyages Zawss have to contact the agency, mostly by phone, and present their demands. Following the call, the customers will have to give some of their personal information as well as the trip's information, such as the number of passengers, age, gender, etc. by email.

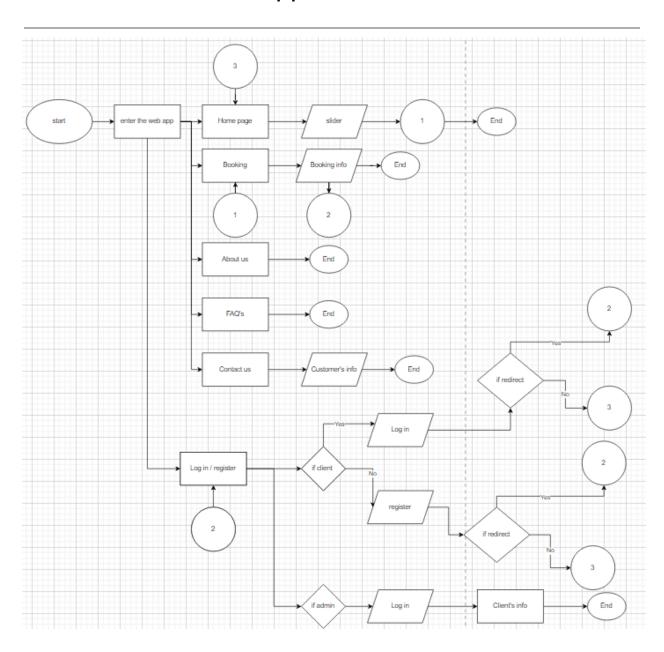
Upon receiving this information, the agency processes the info through the *Sabre* and *Amadeus* software to check the fare for corresponding flights. Afterward, they send the best-matched quote back to the customer via email

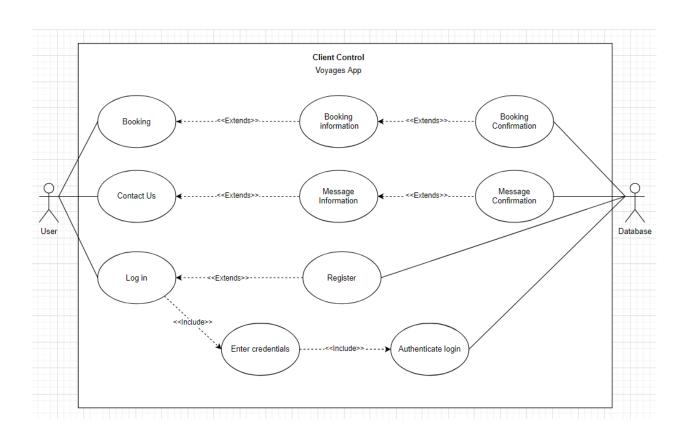
The customer will fulfill the payment by e-transfer or by credit card. With this, the agency will begin the process of buying the tickets and prepare guidance for the customer. Once done, they send everything to the customers.

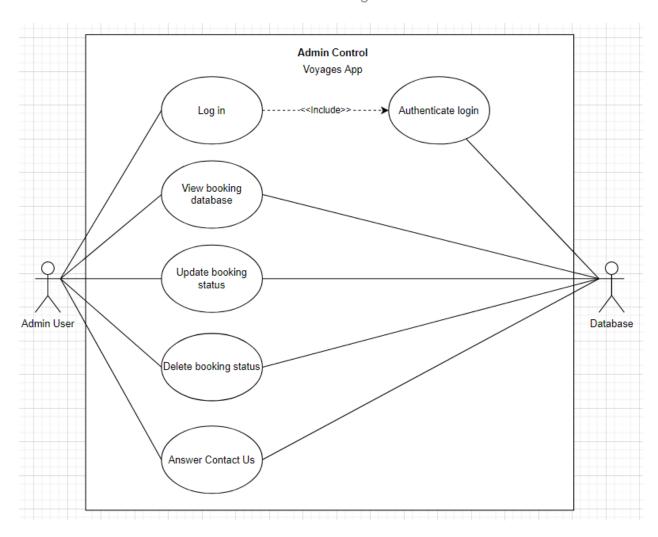
The agency will have the records in the admin page and can access them anytime.

For any questions that customers may have, they are able to call or use the contact us page on the website

Our web application has the goal of replacing most of the manual labor of data collection with the use of forms that will collect and store customers' information and booking information into a database. This will in turn be accessible to the agency. This will help with the fluidity of the whole process while bringing new features such as updating and deleting booking requests, a contact page, etc.







Use Case ID	Customer-Register			
Use Case Name	Customer Register			
Created By	Saqliyan & Damiano Last Updated By Andy			Andy
Date Created	09/28	/22	Last Revision Date	10/06/22
Actors	•	Customer (Prim Database (Seco	• /	
Description	Custo	mer can create a	an account and add it to	the database
Trigger	Custo	mer uses the "Re	egister" button	
Preconditions	Custo	mer does not ha	ve an account & is not	logged in
Post-Conditions	 Customer's account is created & info is saved Customer is able to login 			
Normal Flow	 Customer navigates to the "Log in/Register" page On the page, Customer clicks on "Register" Customer will be presented with the registration form and fill it out. a. Customer's username b. Customer's phone c. Customer's email d. Customer's password e. Confirmation of password Customer clicks on "Register" A message saying if the account was created successfully is displayed Customer will be redirected to the previous page 			
Alternative Flows	 Customer attempts to confirm a booking form Customer is redirected to the "Log in/Register" page Customer clicks on "Register" Customer will be presented with the registration form and fill it out. The customer clicks "Save" A message saying if the account was created successfully is displayed The customer will be redirected to the previous page 			

Exceptions	4 (Normal) & 5 (Alt): User information is already in use
Includes	N/A
Frequency of Use	On Demand
Special Requirements	N/A
Assumptions	The customer is able to fill out the form
Notes and Issues	N/A

Use Case ID	Customer-Login		
Use Case Name	Customer Log in		
Created By	Saqliyan & Damiano		Andy
Date Created	09/28/22	Last Revision Date	10/06/22
Actors	Customer (PrimDatabase (Second	• /	
Description	This use case logs in a	customer into their ac	count
Trigger	The customer uses the	"Login" button	
Preconditions	Customer must already have created an account Customer is not logged in		
Post-Conditions	Customer can nCustomer is log	ow confirm their bookii ged in	ng
Normal Flow	Customer navigates to the "Log in/Register" page Customer fills out the login form a. Customer's Username b. Customer's Password Customer clicks login Customer will be redirected to the previous page		
Alternative Flows	 Customer attempts to confirm a booking form Customer is redirected to the "Log in/Register" page Customer fills out the login form Customer clicks login Customer is redirected back to the booking page 		
Exceptions	2 (Normal) & 3 (Alternate): User information is incorrect		
Includes	Customer-Register		
Frequency of Use	On Demand		
Special Requirements	N/A		
Assumptions	Customer has an account in the databaseCustomer knows their login information		
Notes and Issues	N/A		

Use Case ID	Admin-Login		
Use Case Name	Admin Log in		
Created By	Saqliyan & Damiano	Last Updated By	Andy
Date Created	09/28/22	Last Revision Date	10/06/22
Actors	Admin (PrimaryDatabase (Second	•	
Description	Admin can log in into t	heir account	
Trigger	Admin uses the "Login	" button	
Preconditions	Admin is not logged in Admin is on the log in page		
Post-Conditions	 Admin is logged in Admin is redirected to the admin dashboard Admin has access to the databases 		
Normal Flow	Admin navigates to the "Log in/Register" page Admin fills out the login form		
Alternative Flows	N/A		
Exceptions	4 (Normal) : User information is incorrect		
Includes	N/A		
Frequency of Use	On Demand		
Special Requirements	N/A		
Assumptions	 Admin is not logged in Admin is on the log in page Admin knows their login information 		
Notes and Issues	N/A		

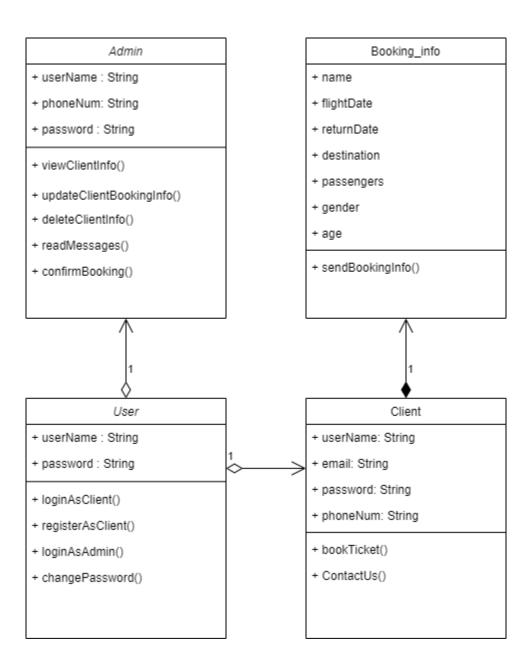
Use Case ID	Admin-View		
Use Case Name	Admin View		
Created By	Saqliyan & Damiano Last Updated By Saqliyan & Andy		
Date Created	09/28/22	Last Revision Date	10/06/22
Actors	Admin (Primary) Database (Secondary)		
Description	Admin to view a detailed page of a selected booking entry from the database		
Trigger	Admin double-clicks a	booking entry from the	database
Preconditions	There must be at least one booking entry in the database		
Post-Conditions	Detail page of the selected booking entry is prompted		
Normal Flow	 Admin navigates to the booking database Admin selects a booking entry Booking entry detail page prompts up 		
Alternative Flows	N/A		
Exceptions	2 (Normal). There are no customer bookings to view		
Includes	N/A		
Frequency of Use	On Demand		
Special Requirements	N/A		
Assumptions	Admin is located outside of an entry's detail page		
Notes and Issues	N/A		

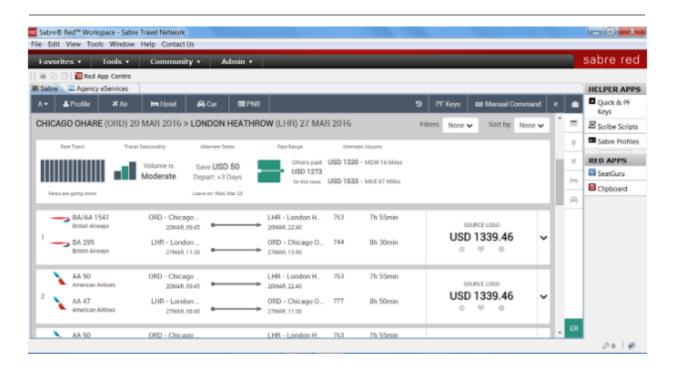
Use Case ID	Admin-Update			
Use Case Name	Admin Update			
Created By	Saqliyan & Damiano			
Date Created	09/28/22	Last Revision Date	10/06/22	
Actors	` `	Admin (Primary) Database (Secondary)		
Description	Admin can update the details of a chosen booking entry, such as status and general information			
Trigger	Admin clicks on the "U	pdate" while in the viev	v of a booking entry	
Preconditions	There must be at least	There must be at least one booking entry in the database		
Post-Conditions	Selected booking entry is updated with the new information			
Normal Flow	 Admin navigates to the booking database Admin selects a booking entry Booking entry detail page prompts up Admin changes at least one of the data fields Admin clicks on "Update" Confirmation prompt appears Admin clicks on "Confirm update" Booking entry is updated 			
Alternative Flows	N/A			
Exceptions	2 (Normal). There are no booking entry to view			
Includes	Admin-View			
Frequency of Use	On Demand			
Special Requirements	N/A			
Assumptions	There are booking entries in the database			
Notes and Issues	N/A			

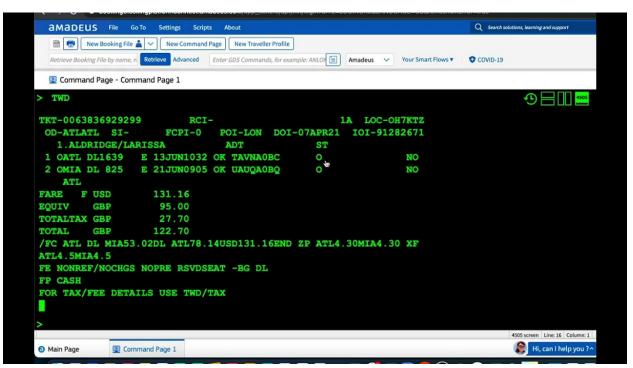
Use Case ID	Admin-Delete			
Use Case Name	Admin Delete			
Created By	Saqliyan & Damiano	Last Updated By	Andy	
Date Created	09/28/22	Last Revision Date	10/06/22	
Actors	` `	Admin (Primary) Database (Secondary)		
Description	Admin can delete a che	osen booking entry fro	m the database	
Trigger	Admin clicks on the "D	elete" while in the view	of a booking entry	
Preconditions	There must be at least	There must be at least one booking entry in the database		
Post-Conditions	Selected booking entry	Selected booking entry is deleted from the database		
Normal Flow	 Admin navigates to the booking database Admin selects a booking entry Booking entry detail page prompts up Admin clicks on "Delete" Confirmation prompt appears Admin clicks on "Confirm deletion" Booking entry is deleted 			
Alternative Flows	N/A			
Exceptions	2 (Normal). There are no booking entry to view			
Includes	Admin-View			
Frequency of Use	On Demand			
Special Requirements	N/A			
Assumptions	There are booking entries in the database			
Notes and Issues	N/A			

Use Case ID	Customer-Contact			
Use Case Name	Customer Contact			
Created By	Saqliyan & Damiano Last Updated By Andy			
Date Created	09/28/22	Last Revision Date	10/06/22	
Actors	User (Primary)Database (Second	User (Primary)Database (Secondary)		
Description	User can leave a mess	sage for the admin		
Trigger	User clicks the send but	utton		
Preconditions	 User is in the "Contact Us" page User fills in each input 			
Post-Conditions	User's message is stored in the message database			
Normal Flow	1. User navigates to the "Contact Us" page 2. User fills in the form a. User's email b. User's message 3. User clicks "Send"			
Alternative Flows	N/A			
Exceptions	2a. Email inputted is not valid			
Includes	N/A			
Frequency of Use	On Demand			
Special Requirements	N/A			
Assumptions	User enters something in the inputs			
Notes and Issues	N/A			

Use Case ID	Customer-Booking		
Use Case Name	Customer Booking		
Created By	Saqliyan & Damiano	Last Updated By	Andy
Date Created	09/28/22	Last Revision Date	10/04/22
Actors	Customer (Primary) Database (Secondary)		
Description	The customer send bo	oking info to the admin	
Trigger	Customer presses the	send button after input	ting his information
Preconditions	The customer must be logged in		
Post-Conditions	The customer sent the booking info to the admin		
Normal Flow	 The customer navigates to the booking page The customer inputs booking info into corresponding boxes 2.1 The customer clicks send Confirmation message 		
Alternative Flows	N/A		
Exceptions	N/A		
Includes	N/A		
Frequency of Use	On Demand		
Special Requirements	N/A		
Assumptions	The customer is able to fill out the form completely and client is registered		
Notes and Issues	N/A		







Works Cited