BSc (Hons) in Information Technology

Assignment 1 Cover Sheet

IT1060 – Software Process Modeling   **Semester 1 - 2022**

PROJECT ID	MLB_10.02_02
CASE STUDY NAME	Wild-life Safari Trip Management System
CAMPUS/CENTER	Malabe Campus

Group Details:

	Student Registration Number	Student Name
1	IT21189944	Madusanka G.K. I
2	IT21190216	Thisera W.N.M
3	IT21379956	Hettiarachchi V. E
4	IT21377280	Rajapaksha C. S
5	IT21189630	Hewavitharana D. L

Assignment 1 Certify Sheet

IT1060 – Software Process Modeling   **Semester 1 - 2022**

We hereby certify,

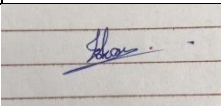☑ The attached is our own work and no further changes will be made.
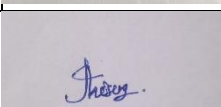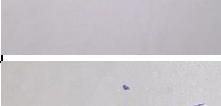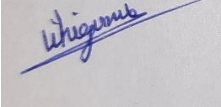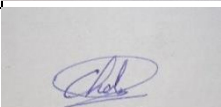
☑ We have contributed in this assignment to the best of our ability.

And we understand,

☑ We may be subject to student discipline processes in the event of an act of academic misconduct by us including an act of plagiarism or cheating.

Group Details:

	Student Name	Student Registration Number	Date	Signature
1	IT21189944	Madusanka G.K. I	25/03/2022	
2	IT21190216	Thisera W.N.M	25/03/2022	
3	IT21379956	Hettiarachchi V. E	25/03/2022	
4	IT21377280	Rajapaksha C. S	25/03/2022	
5	IT21189630	Hewavitharana D. L	25/03/2022	

Introduction

Wildlife Quest SL Management system is one of the best and easy websites where you can plan your holiday Safari trip with many benefits under fair Packages. When a person who is fond of this system enters the web application, they can find out packages, Donations, Register, promotions, camping sites and availabilities. If a customer wants to do Reservation, they will have to get register to the web application. Both local and foreign customers can get register to the system, then a user account is created. These user accounts are managed by the system admin. Both Registered as well as non-registered customers can Donate Fund for the wildlife maintenance and Expenses by Selecting a suitable amount without login the system.

Registered users can do Reservations, share experience, and Cancel reservation. For that they have to login the system. These Reservations, add/remove shared Experience and Cancelling Reservations are authorized/ approved by the system Admins. When Registered user cancel the reservation, Admins will remove marked reservation from calendar and arrange the refund to the Registered user. Not only the above-mentioned abilities but also Admins can Manage staff Accounts, Update social media platform and Update safari details.   Managers can generate reports, analyze reports and manage funds by login to the system by his/her credential. Both Guest and the Registered user act as the primary Actors while Manager and the Admins act as the Secondary Actors. Use case diagrams and the use case scenarios explain the flow of events of this system.

Use Case Diagram and Use Case Scenarios

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IT1060 – Software Process Modeling   **Semester 1 - 2022**

Wild safari management system
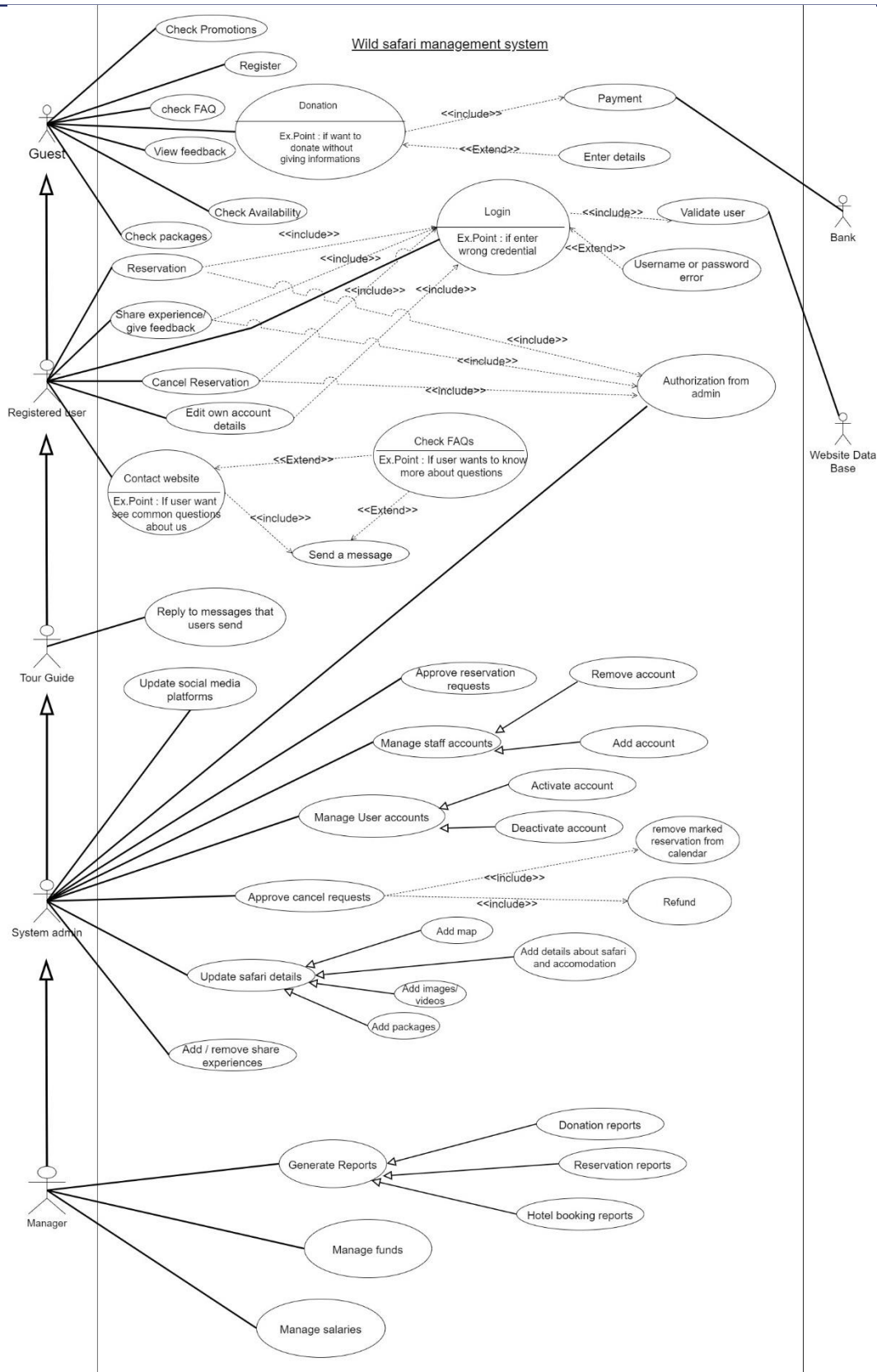
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IT1060 – Software Process Modeling   **Semester 1 - 2022**

IT21189944: **Madusanka G.K.I**

a) Individual Contribution

- Created use case diagrams for **Registration**.
- Worked on actor - **Registered user**.
- Worked on creating use case scenario for **Register as a user**.

b) Challenges faced

- I have faced signal issues and power failure issues on these days.
- Also, we had an IWT assignment to submit, so we had to manage our time.
- As a leader I had to change use case diagrams two three times after considering the other members ideas.
- Difficult to identify use case generalization.

Number	01	
Name	Register	
Summary	Register as a user	
Priority	01	
Pre-condition	User must visit to website	
Post-condition	System sends an email of gratitude to user with a note to confirm about successful registration.	
Primary actor	Guest	
Trigger	Guest chooses to register	
Main scenario	**Step**	**Action**
	1.	Visit the web site.
	2.	Guest clicks on sign up button.
	3.	System displays the Registration form and asks to enter the details.
	4.	Guest enters the username, full name, Email, Password with mention characters, and re-type password.
	5.	Guest clicks on the sign-up button to submit the registration form.
	6.	System stores the guest details and sends an email with link and pin number for confirm entered email.
	7.	Guest enters pin number on web site or clicks on confirm link in the email.
	8.	System sends an email of gratitude to user with a note confirm about successful registration.
Extensions	**Step**	**Branching Action**
	4a	System notifies guest that the entered E-mail is not valid.
	4b	System notifies guest that the entered username already exists.
	4c	System notifies guest that the entered password is weak.
	4d	System notifies guest that the re-entered password is not matched with previous password.
	5a	System notifies user that information provided is incomplete
	7a	System notifies guest that the email does not confirm.
Open issues	1	Should the system ask if the guest wants to receive newsletters and details about discount and offers?

IT21379956: **Hettiarachchi V. E**

   c) Individual Contribution

- Created use case diagrams for **Donations**.
- Worked on actor - **Guest**.
- Worked on creating use case scenario for **Donate Funds for Wildlife Maintenance and Expenses**
- Introduction to the Assignment.

   d) Challenges faced

- Difficulty to meet team members on the campus for the completion of assignment Due to this pandemic and Transportation difficulties of the country.
- We had to manage the time, as we had to work on another assignment of IWT module

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IT1060 – Software Process Modeling   **Semester 1 - 2022**

Number	02
Name	Donations
Summary	Donate Funds for Wildlife Maintenance and Expenses
Priority	3
Pre-conditions	Anyone can Donate fund without registering
Post-conditions	Receive an email about Donation
Primary Actor	Guests and Users
Trigger	Donate money for wildlife

Main Scenario	Steps	Actions
	01	Go to Home page of the site.
	02	Go to Donation page.
	03	Select Pay now or Pay Monthly.
	04	Select Donation Amount.
	05	Enter Donor Information.
	06	Choose Payment method.
	07	If you select card payment, Enter Card Details.
	08	Click on 'Submit' after filling details.
	09	Receives an email with an OTP number for the confirmation of the payment
	10	Submit

Extension	Steps	Branching Action
	2a	Enter Login details and login
	5b	Select donate without entering details
	8a	Display an error message if the account balance is insufficient.
	8b	Display an error message if the card details is wrong.
	8c	Direct back to Donation page.

Open issues	1	Should the system ask customer to enter another payment method?

Assignment 1 Certify Sheet

IT1060 – Software Process Modeling   **Semester 1 - 2022**

As **IT21190216 – Thisera W.N.M**,
   a) Individual Contribution
   - Worked on **Reservation**.
   - Worked on actor - **Registered User**.
   - Created use case scenario for **request for reservation**

   b) Challenges faced
   - Issue with power failure from time to time.
   - Also, there was a time management problem for me.
   - While writing the use case scenarios I had a problem with finding the proper main scenarios of the particular use case scenarios.

Assignment 1 Certify Sheet

IT1060 – Software Process Modeling   **Semester 1 - 2022**

Number	03	
Name	Request for reservation	
Summary	User request for reservation	
Priority	01	
Pre-condition	User must be a registered user	
Post-condition	Received confirmation email	
Primary actor	Registered user	
Trigger	Users decide to make a reservation	
Main scenario	**Step**	**Action**
	1.	Visit the web site.
	2.	Login using credentials
	3.	Go to wild trips tab
	4.	Check package details
	5.	Choose a suitable package
	6.	Check availability
	7.	Go to reservations
	8.	Fill the form
	9.	Submit the form using submit button
Extensions	**Step**	**Branching Action**
	2a	System notifies username is not correct
	2b	System notifies password Is not correct
	6a	Show notification if the selected date is already booked
	9a	Show error that form is not completed

Assignment 1 Certify Sheet

IT1060 – Software Process Modeling   **Semester 1 - 2022**

As **IT21189630**: **Hewavitharana D. L**
  a) **Individual Contribution**
  - Worked on the actor - **system admin**
  - Worked on generalizing the use cases for actor system admin
  - Created use case scenarios for,
    - ➢ Approve reservation request
    - ➢ Approve cancel reservation request
    - ➢ Add staff account
    - ➢ Remove staff account
  b) **Challenges faced**
  - It was difficult when organizing use cases in the case diagram because there are multiple use cases that link with admin(actor). So, I had to manage the space in efficient manner as well.
  - To discuss and complete the assignment, it was not enough to meet the group members on the campus, because of that we had to arrange some online meetings too.
  - Also, there were some assignments related to other modules as well. So, we had to manage our time efficiently to complete all the assignments before due date.

Number	04
Name	Approve reservations
Summary	Customer Inquiry
Priority	02
Pre-condition	Admin has logged in to the system dashboard
Post-condition	Admin can cancel the reservation
Primary actor	Admin
Trigger	Admin clicks the approved reservations
Main scenario	**Step**	**Action**
	1.	Admin clicks on approve reservation
	2.	System will display currently pending reserve request.
	3.	Admin approves the perfectly filled reservation requests.
	4.	Admin generates the reports of approves reservation
Extensions	**Step**	**Branching Action**
	2a	System will display a message if there are no reservation requests.
Open issues	1	Should the system send a message to client when his reservation approved.

Assignment 1 Certify Sheet

IT1060 – Software Process Modeling   **Semester 1 ‑ 2022**

Number	04	
Name	Cancel reservations	
Summary	Admin gets the report of cancelled reservation	
Priority	02	
Pre-condition	Admin has logged into the system dashboard	
Post-condition	Admin can execute another task on dashboard.	
Primary actor	Admin	
Trigger	Admin clicks the approved cancel reservation request	
Main scenario	**Step**	**Action**
	1.	Admin clicks on cancel reservation
	2.	System will display currently pending cancel request.
	3.	Admin cancel the selected reservations.
	4.	Admin generates the reports of cancelled reservations
Extensions	**Step**	**Branching Action**
	2a	System will display a message if there are no cancel reservation requests.
	3a	System will only allow the cancel option for client only if reservation was placed within 48 hours.
Open Issues		Should the system send a message to client when his reservation cancelled.

Assignment 1 Certify Sheet

IT1060 – Software Process Modeling   **Semester 1 ‑ 2022**

Number	04	
Name	Add staff account	
Summary	Admin will add a new account to the staff	
Priority	02	
Pre-condition	Admin has logged into the system dashboard	
Post-condition	Admin can add another account or update selected account	
Primary actor	Admin	
Trigger	Admin clicks the add staff account button	
Main scenario	**Step**	**Action**
	1.	Admin clicks on add staff button
	2.	Admin will fill the necessary details and generate a staff ID to the person.
	3.	Admin clicks on the register button
	4.	System will show message box saying that new user registered into the staff successfully.
Extensions	**Step**	**Branching Action**
	3a	System will display an error if any error occurs while validating the form.
	4a	System will display "Registration Unsuccessful" if there was duplication of entered staff ID with existing staff ID.
Open Issues		Should the system send a message to the person saying that he has been registered to the staff.

Assignment 1 Certify Sheet

Number	04	
Name	Remove staff account	
Summary	Admin will remove exiting staff account	
Priority	04	
Pre-condition	Admin has logged into the system dashboard	
Post-condition	Admin can remove another account	
Primary actor	Admin	
Trigger	Admin clicks the remove staff account button	
Main scenario	**Step**	**Action**
	1.	Admin clicks on remove staff button
	2.	Admin will type the staff ID on the search bar of the account that he wants to be deleted.
	3.	Admin clicks on the account that he wants to be deleted which display inside search results.
	4.	Admin will guide into the account details page
	5	Admin will click on the delete account button
	6	System will ask "Do you want to delete this account?" for verification purpose.
	7	Admin will click on "Yes" button
	8	System will display message saying that "Database has been updated!"
Extensions	**Step**	**Branching Action**
	2a	Search results window will display a message if entered staff ID is not in the database
Open Issues		Should the system keep a logbook about deleted staff accounts.

IT21377280: Rajapaksha C. S

a) Individual Contribution:

- Created the use case scenario for the **contact us and FAQs**.
- Worked on the actor - **Visitor**
- Researched on wildlife safari websites to find out use case scenario formations.
- Worked on creating guest **use cases and contact**.

b) Challenges Faced:

- Difficulty in summarizing the whole content.
- Same reports were present repeatedly in some websites and it was a challenge when   finding fresh information.

Number	05
Name	Contact Us
Summary	Customer Inquiry
Priority	01
Pre-condition	User has a doubt about the site
Post-condition	Receive a email about the inquiry
Primary actor	User
Trigger	User choose to contact

Main scenario	Step	Action
	1.	Visit the web site.
	2.	Guest clicks on 'Contact us' button.
	3.	System displays a message
	4.	If user selects cancel, Display the 'contact us' page.
	5.	If user selected 'cancel', choose the familiar social media platform, or direct contact form.
	6.	If user chooses direct contact form, user enters name, salutation, email address, telephone number and the message
	7.	After user filled the direct contact form, user clicks the 'submit' button.
	8.	when submitting filled direct contact form, system displays a message
	9.	If user choose familiar social media, system send automated message as "Dear sir/madam, we will reply soon. Thank you for contacting us!" in selected platform.
	10.	Meanwhile, System sends the message to manager.
Extensions	**Step**	**Branching Action**
	1a	User logins by entering Username and password.
	1b	System confirms username and password.
	3a	If user clicks on ok, system displays the common questions and answers page (FAQ page).
	3b	User searches using the key word in question through the search bar.
	3c	System suggests the similar questions and answers.
	3d	User clicks on the answer.
	3e	System displays the contact page with that question for user to ask somethings about that answer.