

Assignment 1 Cover Sheet

IT1060 – Software Process Modeling
Semester II- 2024

Semester 2 Year 01

PROJECT ID	MLB_04.02_08
CASE STUDY NAME	Life Insurance Management System
CAMPUS/CENTER	Malabe Centre

Group Details:

	Student Registration Number	Student Name
1	IT23228276	Aaqib A.R.
2	IT23223530	Thakkif Ahamed I.M.
3	IT23220942	Thanis Ahamed A.R.
4	IT23222236	Erathnage T.N.
5	IT23222786	Budara V.P.R.

Assignment 1

IT1060 – Software Process Modeling

Semester 2 Year 01

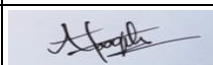
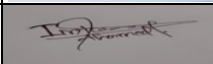
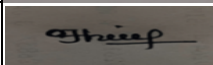
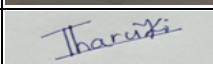

Semester II- 2024

Certify Sheet

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	Aaqib A.R.	IT23228276	20/03/2024	
2	Thakkif Ahamed I.M.	IT23223530	20/03/2024	
3	Thanis Ahamed A.R.	IT23220942	20/03/2024	
4	Erathnage T.N.	IT23222236	20/03/2024	
5	Budara V.P.R.	IT23222786	20/03/2024	

Assignment 1**IT1060 – Software Process Modeling
Semester II- 2022****Semester 1 Year 01**

Life Insurance Management System**Introduction**

Welcome to the Life Insurance Management System, your go-to platform for efficiently managing your life insurance policies! Whether you're safeguarding your family's future or planning for retirement, our system offers tailored tools and resources to meet your insurance needs. With easy-to-use interfaces and dedicated support, we aim to simplify the management of your life insurance portfolio, ensuring peace of mind for you and your loved ones.

Our platform welcomes all users with a basic free plan and provides the option for a premium subscription. Premium subscribers gain access to advanced features like policy analysis, premium tracking, and personalized recommendations. Organize your policies seamlessly, track premiums effortlessly, and stay up to date with the latest insurance trends and updates through our intuitive platform.

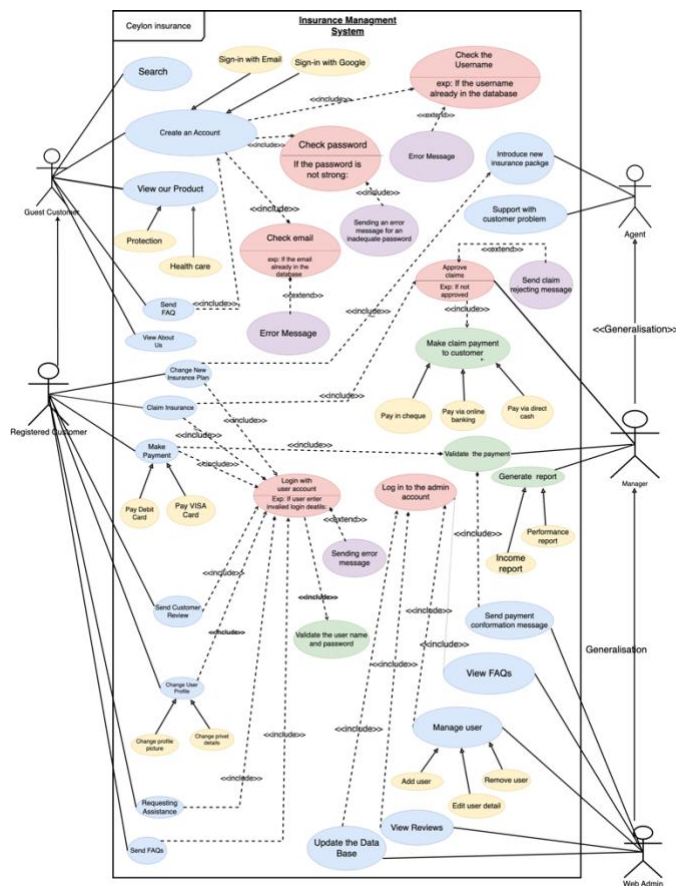
In this report, we'll present a use case study of the Life Insurance Management System, diving into its background, objectives, and the methods used for analysis. We will explain the background and objectives of the project, the methods, and tools we used to conduct the use case study, and the results and findings of the analysis. We will also provide an analysis of how the users interact with the system.

Assignment 1

IT1060 – Software Process Modeling
Semester II- 2022

Semester 1Year 01

USECASE



Assignment 1

IT1060 – Software Process Modeling
Semester II- 2022

Semester 1 Year 01

IT23228276-Aaqib A.R.

a) Individual Contribution

- Created use case diagram for **Guest customer** and **bank**.
- Worked on creating use case scenarios for,
 1. Viewing the Products
 2. Managing Payments

b) Special Contribution

- Corrected the grammatical mistakes.
- Formatted the document well.

c) . Encountered Challenges

- Not enough time due to midterm exams.
- Insufficient understanding of the assignment requirements.
- Lack of knowledge about managing life insurance.
- Difficulty in coordinating group members for the use-case diagram.
- Difficulty in identifying the “include” & “extended” relationships correctly.

Despite the challenges, we completed the assignment on time.

Number	IT23228276	
Use Case ID	UC001	
Use Case Name	Viewing the Products	
Summary	Guest customers can only view products and cannot purchase or navigate further until he/she registers themselves to it.	
Priority	3	
Pre-condition	The guest customer is not registered to the system	
Post-condition	The guest's information is stored into the system. The guest customer is registered in the system.	
Primary actor	Guest Customer	
Trigger	A guest customer should register themselves as a registered customer to purchase any product.	
Main scenario	Step	Action
	01	The user initiates a search to find specific information or products on our website.
	02	A new user registers by creating an account, providing necessary information to access personalized services and features. <ul style="list-style-type: none"> • Sign-in with email. • Sign-in with Google.
	03	Users navigate through the system to view available insurance, including coverage details, benefits, and premium rates. <ul style="list-style-type: none"> • Protection. • Health Care.
	04	Users submit inquiries through the system's FAQ section to receive quick answers to common questions about policies, claims, and coverage.
	05	Users access "About Us" section for a brief overview of the insurance company's background, values, and mission.
Extensions	Step	Branching Action
	2a	<ul style="list-style-type: none"> • The user must check their mail. • The user must check their username.

Number	IT23228276	
Use Case ID	UC002	
Use Case Name	Managing Payments	
Summary	Accepting payments from the registered customers for their life insurance.	
Priority	4	
Pre-condition	Registered customer should accept the terms and conditions before the payment process.	
Post-condition	The terms and conditions have been accepted by the registered customer and thereby the payment process has been completed.	
Primary actor	Bank	
Trigger	A registered customer wants to make a payment and purchase the product.	
Main scenario	Step	Action
	01	Users initiate the payment process within the Life Insurance Management System to settle premiums or fees associated with their policies.
	02	The system verifies payment transactions to ensure that payments are processed accurately and securely, confirming successful completion before updating the user's account.
Extensions	Step	Branching Action
	2a	Payment verification – If payment is not valid an error message will be shown.

Assignment 1

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

Semester 1 Year 01

IT23223530-Thakkif Ahamed I.M.

d) Individual Contribution

- Designed and drew the actor, **Agent** in the Use Case Diagram.
- Designed and made **two** Use Case Scenarios **for Agent (Support with customer problem, Introduce new package to the customer.)**

e) Special Contribution

- Added new use cases to help construct the use case diagram.
- Shared some important ideas about Use Case Scenarios

f) . Encountered Challenges

- We had a short period to finish.
- I had some difficulties when designing the appropriate primary scenario phases for the specified specific use case scenarios.

Number	IT23223530	
Use Case ID	US003	
Use Case Name	Support with customer problem.	
Summary	Agent check what are the problems and give solutions according to the problem.	
Priority	4	
Pre-condition	Enter login credentials and log in to the system.	
Post-condition	Publish solution to customer.	
Primary actor	Agent	
Trigger	Agent wants to give solutions according to the problems	
Main scenario	Step	Action
	01	Enter to the customer help desk page.
	02	Check the problems produce by the customer
	03	Analyze the problem
	04	Clear solutions according to the problems revealed
	05	Publish the solutions to the customer
	06	Take the feedback from the customer
Extensions	Step	Branching Action
	2a.	Analyze the previous static
	2b.	Analyze the previous report
	2c.	Analyze the previous feedback and complains

Number	IT23223530	
Use Case ID	US004	
Use Case Name	Introduce new package to the customer.	
Summary	Agent introduces to the customers new packages.	
Priority	5	
Pre-condition	Identify new life threat	
Post-condition	Publish the new information to the system.	
Primary actor	Agent	
Trigger	Agent wants to introduce new insurance package to customer	
Main scenario	Step	Action
	01	Access to the admin panel.
	02	Visit the product section.
	03	Navigate to packages.
	04	Click on the update button.
	05	Add the relevant details of the package.
	06	Upload suitable image.
	07	Click on post after customer
Extensions	Step	Branching Action
	a.	If use credentials are wrong, sent the error message.
	b.	Receive the conformation message from system.
	c.	Receive and send error message. If there is an error

Assignment 1

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

Semester 1 Year 01

IT23220942-Thanis Ahamed A.R.

a) Individual Contribution

- Designed and drew the actor, **Admin** in the Use Case Diagram.
- Designed and made a Use Case Scenarios for **Admin (Maintain the webpage)**.

b) Special Contribution

- provided some helpful suggestions to the group and consistently helped the team to advance the project.
- Presented the most recent concepts on the use cases of The Website Admin

c) Encountered Challenges

- Insufficient time due to midterm exams
- Had some difficulties when meeting the group members to work together because of the holidays.

Number	IT23220942	
Use Case ID	UC005	
Use Case Name	Maintain the webpage.	
Summary	Responsible for maintaining and optimizing the online platform	
Priority	4	
Pre-condition	The manger should be logged in to the admin account.	
Post-condition	Admin can maintain the system data.	
Primary actor	Admin	
Trigger	Web users should register to view the offers and packages.	
Main scenario	Step	Action
	01	The admin can view the FAQs and make any necessary changes if needed.
	02	The admin is able to manage the details and the information of the users.
	03	The admin can view and manage the customer's reviews.
	04	The data base can be updated by the admin.
Extensions	Step	Branching Action
	1 a.	Login into the admin account

Number	IT23220942	
Use Case ID	UC006	
Use Case Name	Monitor Website performance	
Summary	Web admin needs to insure weather website runs smoothly	
Priority	4	
Pre-condition	Logs into the admin panel	
Post-condition	Web admin has been logged into his account	
Primary actor	Web Admin	
Trigger	Web admin should have been logged into admin account to access customer data	
Main scenario	Step	Action
	01	web admin should login into the administer panel
	02	performance Monitoring will be maintain by admin
	03	Real-time analytics will be summarize by the admin
	04	Admin take necessary action to optimize system and resources
	05	Admin logged from the administer panel
Extensions	Step	Branching Action
	1a.	Show the error message when admin username and password incorrect
	3a	Admin should maintain a record to present real-time analytics

Assignment 1

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

Semester 1 Year 01

IT23222236-Erathnage T.N.

a) Individual Contribution

- Designed and drew the actor, **Manager** in the Use Case Diagram.
- Designed and made **two** Use Case Scenarios for **Manager (Approve claims, Generating a report)**.

b) Special Contribution

- Encouraged the other group members to finish the project
- Finalized The use case Diagram after organizing and coordinating the ideas of other group members.

c) Encountered Challenges

- Before finalizing it, the use case diagram's output had to be generated several times owing to unresolved difficulties.
- Having trouble deciding which Use Case Scenarios to include in the completed report

Number	UC007	
Use Case ID	IT23222236	
Use Case Name	Generating a report	
Summary	Generate a report while analyzing the details.	
Priority	7	
Pre-condition	The manager should get access for the system to create a report.	
Post-condition	The manager analyzed the details and create a report.	
Primary actor	Manager	
Tigger	Manager wants to generate reports using latest details of the company	
Main scenario	Step	Action
	01	Log in to the website using user Id and password.
	02	Enter to the report section in website.
	03	The System is displaying what are the report types.
	04	Decide the purpose of the report.
	05	Select the report type.
	06	Filter out the necessary time period of the data.
	07	Generate the necessary report.
	08	Ensure the accuracy, completeness and clarity of the created report
	09	Upload the report into the website.
Extensions	Step	Branching Action
	01.	If user credentials are wrong, send error message and back to the login.
	08.	If the report seems to be unclear, rearrange the report making correctly.
Open Issues	01	Under evaluation leads to the bad effect of the company goodwill
	02.	Over evaluation leads to minimize the profit margin of the company.

Number	UC008	
Use Case ID	IT23222236	
Use Case Name	Approve claims	
Summary	The manager checks what are the applied claims by the customer and approve or rejected them.	
Priority	8	
Pre-condition	Enter login credentials and log in to the system.	
Post-condition	Approve claims and pay.	
Primary actor	Manager	
Tigger	Manager decided to approve and review the customer claims.	
Main scenario	Step	Action
	01	Log in to the website using user Id and password.
	02	Check what is the insurance package requested by customer.
	03	Check whether the insurance application with required medical document and the paid medical bills submitted correctly.
	04	Check whether the installments of insurance paid in time by customer.
	05	Check the claim items along with the package conditions.
	06	Identify the due amount of the claim actually paid to the customer.
	07	Appovement will be given and the payment will be made to the customer account.
Extensions	Step	Branching Action
	01.	If user credentials are wrong, send error message and back to the login.
	02.	If customer has submitted incomplete documents and claim form. Claim rejected
	03.	If the customer doesn't pay the installment regularly, claim will get rejected.
Open Issues	01.	Under evaluation leads to the bad effect of the company goodwill.
	02.	Over evaluation leads to minimize the profit margin of the company.

Assignment 1

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

Semester 1 Year 01

IT23222786 – Budara V.P.R.

a) Individual Contribution

- Designed and drew the actor, **Registered customer** in the Use Case Diagram.
- Designed and made **two** Use Case Scenarios for **Register Customer (Pay the Monthly Payment and Claim an insurance)**

b) Special Contribution

- Helped to finalized the Use Case Diagram.
- Shared ideas and opinions about other members' useful cases, which was useful.
- Introduced a few new use cases that supported in the creating of the use case diagram.
- Made the Final document

c) Encountered Challenges

- Faced some difficulties when summarizing the whole content for The Use Case Scenarios.
- Due to our hectic schedule, we had some trouble meeting up with the group members in person to collaborate.
- Due to the impending midterm exam, we had to manage the time

IT Number	IT23222786	
Use Case ID	UC009	
Use Case Name	Claim a Insurance	
Summary	The Customer logs in to his account and then requests for a Insurance Claim	
Priority	4	
Pre-condition	The Customer has to log into the account	
Post-condition	The Customer sends the Claim successfully through system	
Primary actor	Registered Customer	
Trigger	Customer wants to Apply a Claim Insurance	
Main scenario	Step	Action
	01	The Customer visits the website
	02	User (Customer) log in to the user account
	03	Navigates to the Claim Submission page
	04	Gather Information that Need
	05	Fill the Claim Form
	06	Submit the Claim
	07	Verifies that the Claim is sent Successfully
Extensions	Step	Branching Action
	2.a	The system generates an error message if the User Name is wrong
	2.b	The system generates an error message if the password is wrong
	5.a	System is informing to user to save the data (in the form) as draft if user leaves the page.
	7.a	the user can cancel the claim after the submitted
Open Issues	<ul style="list-style-type: none"> ○ There is no personalized insurance packages ○ System should have to protect the user's details 	

Number	IT23222786	
Use Case ID	UC010	
Use Case Name	Pay the Monthly Payment	
Summary	Customer log in to the account and tries to pay the monthly payment.	
Priority		
Pre-condition	The User (Customer) must have to log into the account	
Post-condition	The Customer successfully paid the monthly payment	
Primary actor	Registered Customer	
Tigger	The Customer decides to pay the monthly payment	
Main scenario	Step	Action
	01	The Customer visits the website
	02	User (Customer) log in to the user account
	03	Navigates to the Pay Online page
	04	Click on Monthly Insurance payment
	05	Select a payment method
	06	Enter the pertinent payment information
	07	Click the PAY NOW option.
	08	Verifies that the money was sent successfully
Extensions	Step	Branching Action
	2.a	The system generates an error message if the User Name is wrong
	2.b	The system generates an error message if the password is wrong
	5.a	Select the relevant bank account
	5.b	Select the relevant e-wallet address
Open Issues	<ul style="list-style-type: none"> Because there were two factor authentication system can be trust Certain customers are unable to access their bank accounts because certain banks lack the required global capability. 	