

Assignment 1 Cover Sheet**IT1060 – Software Process Modeling****Semester 1 - 2022**

PROJECT ID	MLB_05.01_01
CASE STUDY NAME	Online Pharmacy Portal
CAMPUS/CENTER	Malabe

Group Details:

	Student Registration Number	Student Name
1	IT21286414	L. P. N. Gunathilaka
2	IT21284984	R.A.G.D. Ranathunga
3	IT21288708	A.N. De Zoysa
4	IT21285110	W.D.S.P. Perera
5	IT21268908	Hewakapuge M.M

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.



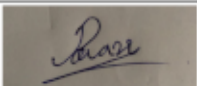
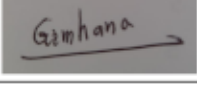
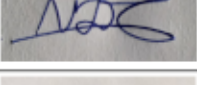
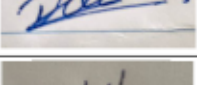
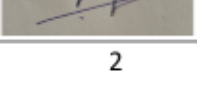
We have contributed in this assignment to the best of our ability.

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:

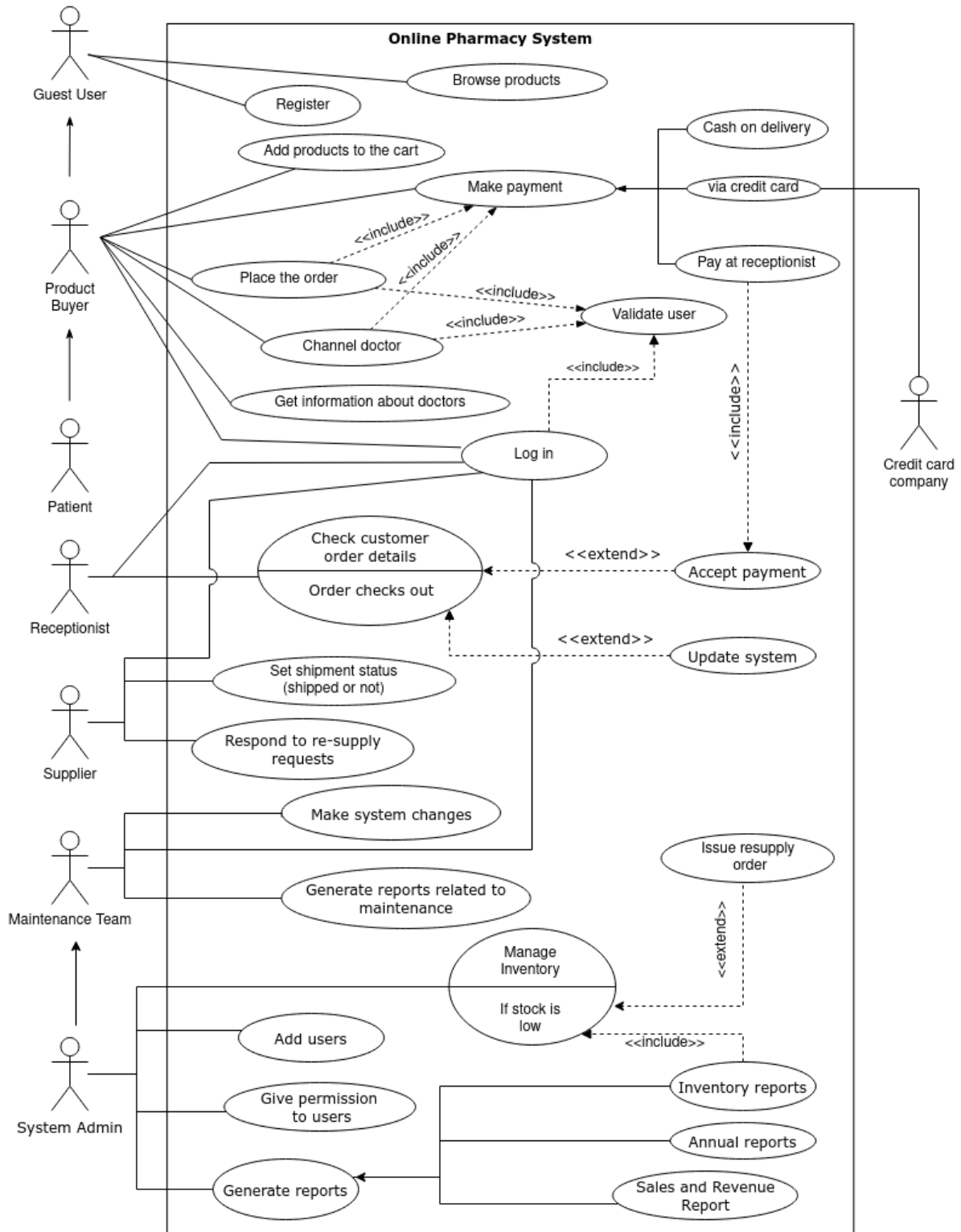
	Student Name	Student Registration Number	Date	Signature
1	L. P. N. Gunathilaka	IT21286414	24/03/2022	
2	R.A.G.D. Ranathunga	IT21284984	24/03/2022	
3	A.N. De Zoysa	IT21288708	24/03/2022	
4	W.D.S.P. Perera	IT21285110	24/03/2022	
5	Hewakapuge M.M	IT21268908	24/03/2022	

Introduction

This project is about an online pharmacy portal. Online pharmacy is a web portal that sells pharmaceuticals over the internet. Nowadays people are trying to save time whenever possible because of their busy lifestyle. Staying in pharmacy queues wastes their time and adversely affects their health due to the current covid situation. Therefore, online pharmacy portal is an ideal solution for purchasing medications without any difficulty.

Through this online pharmacy portal, users can not only buy medications but also can channel a doctor at a leading private hospital. If so, their channeling fee will be waived off. Also, the same medicine is available in different brands, so users can compare the prices and the quality of the medications. The web portal accepts multiple payment methods. Customers can place online payments via credit or debit cards. Or if they prefer “cash on delivery”, we got them covered too. Or if the customer prefers physical human to human interactions, they can pre-order using the online portal and checkout at the counter to avoid waiting in a queue. Customer satisfaction and convenience is the main goal of the portal. And also, it provides the pharmacy with a decent number of administrative tools to better configure and utilize available functionalities in an efficient manner.

a) Use Case Diagram



Use case diagram contribution

IT Number	IT21286414	
Name	L. P. N. Gunathilaka	
Group Number	MLB_05.01_01	
Topic	Online Pharmacy Portal	
Worked on Sections	Everything related to “Supplier” and “System admin” which includes all the use cases, actor relationships (association, generalization) and use case relationships (include, extend, generalization)	
Assumptions	1	Once the email with resupply order request is sent to the supplier, and if they accept the request, the admin makes phone calls for further negotiations outside the system.
	2	The payments for resupplies are also made outside the system.
	3	Once the shipment has arrived, the responsibility of updating the system stock status and quantity is assigned to maintenance personnel.
Special contributions	1	Assembled everything into a single file (Use Case image and the whole pdf)
	2	Did additional research on the subject in order to make the whole project as error free as possible.
Challenges faced	Had to make quite a few assumptions for the “Supplier” in order to convey the right idea and procedure to the viewer	

IT Number	IT21284984	
Name	R.A.G.D. Ranathunga	
Group Number	MLB_05.01_01	
Topic	Online Pharmacy Portal	
Worked on Sections	Everything related to “Maintenance Team” and “credit Card Company” which includes all the use cases, actor relationships (association) and use case relationships (include, generalization)	
Assumptions	1	This task is performed by the developer team on the maintainer team.

	2	Feedback Considerations Develop according to the updates provided by the management and design team.
Challenges faced	1	Power Outages

IT Number	IT21288708	
Name	A.N. De Zoysa	
Group Number	MLB_05.01_01	
Topic	Online Pharmacy Portal	
Worked on Sections	Everything related to “Receptionist” which includes all the use cases, actor relationships (association) and use case relationships (extend)	
Assumptions	1	When customer came to pharmacy receptionist have to listen his/her requirements and log into portal or if customer order medicine via our website, then deliver items to his/her address.
	2	When the customer/patient refers a doctor through our website, he/she gets a 10% discount on the channeling fee.
	3	Make payment through credit card or in cash and update the stock availability status.
Special contributions	Identify the basic principles on the checkout page	
Challenges faced	Slight difficulty in detecting system open issues	

IT Number	IT21285110	
Name	W.D.S.P. Perera	
Group Number	MLB_05.01_01	
Topic	Online Pharmacy Portal	
Worked on Sections	Everything related to “patient” and “Guest user” which includes all the use cases, actor relationships (association, generalization) and use case relationships (include)	
Assumptions	1	Patient uses web portal to make an E-channel.
Special contributions	1	Find use case diagrams and information about use case.
	2	We collected ideas from the Internet and suggested ideas for finding use cases.

Challenges faced	1	it's bit difficult to draw a use case the use of draw.
	2	Communication problems with each others.

IT Number	IT21268908	
Name	Hewakapuge M.M	
Group Number	MLB_05.01_01	
Topic	Online Pharmacy Portal	
Worked on Sections	Everything related to the "product buyer" which includes all the use cases, actor relationships (association, generalization) and use case relationships (include, generalization)	
Assumptions	1	Encryption and other security technologies are used to protect sensitive information (customer credit card details)
Special contributions	1	Concerned about various payment options
	2	To obtain an idea, do some research and refer to existing online pharmacy systems
Challenges faced	Lack of knowledge of the online payment process, which uses credit cards.	

b) Use Case Scenarios and Contributions

IT Number	IT21286414	
Name	L. P. N. Gunathilaka	
Group Number	MLB_05.01_01	
Topic	Online Pharmacy Portal	
Worked on Use Case Scenario Number	001_IT21286414	
Assumptions	1	Once the email with resupply order request is sent to the supplier, and if they accept the request, the admin makes phone calls for further negotiations outside the system.
	2	The payments for resupplies are also made outside the system.
	3	Once the shipment has arrived, the responsibility of updating the system stock status and quantity is assigned to maintenance personnel.
Special contributions	1	Assembled everything into a single file (Use Case diagram image and the whole pdf)
	2	Did additional research on the subject in order to make the whole project as error free as possible.
Challenges faced	Had to make quite a few assumptions for the “Supplier” in order to convey the right idea and procedure to the viewer	

Number	001_IT21286414	
Name	Resupply Requests	
Summary	Admin checks the status of the remaining stock and makes necessary arrangements to place resupply orders	
Priority	4	
Preconditions	System Admin (the owner) has logged into the account with administrative privileges.	
Postconditions	Admin has placed a resupply request.	
Primary Actor(s)	System Admin	
Trigger	Admin has chosen to check available stock status.	
Main Scenario	Step	Action
	1	System displays administrative options
	2	Admin chooses to generate inventory report
	3	System generates the inventory report

	4	Admin analyses the generated report and marks the products that are running low on stock.
	5	System displays the option of placing an order
	6	Admin chooses to place the order.
	7	Admin selects the quantity for each product that needs to be resupplied.
	8	System calculates the estimated average cost.
	9	Admin confirms the resupply quantity and price
	10	System displays the relevant suppliers
	11	Admin chooses the appropriate suppliers
	12	Admin confirms the resupply request.
	13	System contacts the selected suppliers via e-mail and asks them for confirmation.
	14	System notifies the admin when the resupply request (the email) has been sent to the relevant parties.
Extensions	Step	Branching Action
	4a	If there is no need for the resupplies, the admin exits the system.
	9a	If the estimated total cost is unreasonable, admin declines and cancels the order.
	11a	If the relevant suppliers are not available, the admin cancels the order.
	14a	If the email failed to reach the supplier, System alerts the admin, "Email couldn't be sent" message.
Open Issues	1	Should the system implement "direct phone call" feature instead of emails?

IT Number	IT21284984	
Name	R.A.G.D. Ranathunga	
Group Number	MLB_05.01_01	
Topic	Online Pharmacy Portal	
Worked on Use Case Scenario Number	002_ IT21284984	
Assumptions	1	This task is performed by the developer team on the maintainer team.
	2	Feedback Considerations Develop according to the updates provided by the management and design team.
Challenges faced	1	Power Outages

Number	002_ IT21284984	
Name	Web developer	
Summary	Security updates and bug fixes (monthly or as patches are released).	
Priority	3	
Preconditions	System maintainer (the developer) has logged into the account with developer's privileges.	
Postconditions	-	
Primary Actor(s)	Maintenance Team	
Trigger	New customer requirements and bug fixes	
Main Scenario	Step	Action
	1	Use case starts when developer wants to modify interface website & fixed bugs
	2	developer chooses to generate bugs report and feedback report.
	3	System generates bugs and feedback reports.
	4	Developer analyses the generated bugs and requests that many have reported.
	5	Developer selects new requirements that are up to date.
	6	Develop a web site to fit those new Request Estates.
	7	Refer changes made by the developer to the administrator certificate.
	8	Receipt for admin's certification
	9	Developer adds new changes to the main system.
	10	Developer releases a beta version to test new changes.

	11	Developer Releases the new modifications
Extensions	Step	Branching Action
	4a	If there are no bugs in the report, System displayed no fixed bugs
	10a	If there are bugs, fix it again.

IT Number	IT21288708	
Name	A.N. De Zoysa	
Group Number	MLB_05.01_01	
Topic	Online Pharmacy Portal	
Worked on Use Case Scenario Number	003_ IT21288708	
Assumptions	1	When customer came to pharmacy receptionist have to listen his/her requirements and log into portal or if customer order medicine via our website, then deliver items to his/her address.
	2	When the customer/patient refers a doctor through our website, he/she gets a 10% discount on the channeling fee.
	3	Make payment through credit card or in cash and update the stock availability status.

Number	003_ IT21288708	
Name	Check Order Details	
Summary	The receptionist has to check order details and check pharmacy stock.	
Priority	3	
Preconditions	Receptionist has logged into the portal and ready to add customer/patient details to the system.	
Postconditions	Receptionist issue customer asked medicine and got the payment.	
Primary Actor(s)	Receptionist	
Trigger	Receptionist have to check order details and get customer credentials.	
Main Scenario	Step	Action

	1	System displays available stock details and customer details adding page.
	2	Receptionist chooses to generate stock availability report.
	3	System generates the stock availability report
	4	Receptionist get the generated report.
	5	Receptionist add the customer required item details to the system.
	6	System calculates the estimated average cost.
	7	Receptionist confirms the quantity and price in checkout page.
	8	System displays the available payment methods.
	9	Receptionist choose the payment method which customers wants.
	10	Receptionist checkout the items and issue them to customer/patient.
	11	System save the customer details to the database.
Extensions	Step	Branching Action
	4a	If the required items not enough, receptionist exits the system.
	7a	If the estimated total cost is too much, if the customer disagree and cancels the order, then receptionist cancel the order and exits the system.
	11a	If the customer is new to the pharmacy system create a customer profile automatically.
Open Issues	1	Should the receptionist have choose the payment method which customers wants instead of customer choose which method he wants.

IT Number	IT21285110	
Name	W.D.S.P. Perera	
Group Number	MLB_05.01_01	
Topic	Online Pharmacy Portal	
Worked on Use Case Scenario Number	004_ IT21285110	
Assumptions	1	Patient uses web portal to make an E-channel.
Special contributions	1	Find use case diagrams and information about use case.
	2	We collected ideas from the Internet and suggested ideas for finding use cases.
Challenges faced	1	it's bit difficult to draw a use case the use of draw.
	2	Communication problems with each others.

Number	004_ IT21285110	
Name	Channeling a doctor	
Summary	Patient make channel to the doctor	
Priority	2	
Preconditions	Patient check the status of system and logged into the account with entry privileges.	
Postconditions	Patient take the channel suitable doctor	
Primary Actor(s)	Patient	
Trigger	She wants to make sure about her healthy and pregnancy	
Main Scenario	Step	Action
	1	Patient logging the system
	2	The system recognizes the patient
	3	Patient takes the channel for her suitable doctor
	4	system recognizes and accept her channel
	5	System sends the email about the patient's channel and conformation
	6	Patient pay the payment for the channel
	7	The system detects the patient's payment
	8	System sends a email to the patient about the payment conformation
Extensions	Step	Branching Action
	1a	If the patient is not logging patient will be redirected to the logging page

	3a	System alerts the patient, “channel couldn’t be sent” message.
	7a	If the relevant doctor aren’t available, patient cancels the order.
Open Issues	1	Should the system implement “direct phone call” feature instead of emails?

IT Number	IT21268908	
Name	Hewakapuge M.M	
Group Number	MLB_05.01_01	
Topic	Online Pharmacy Portal	
Worked on Use Case Scenario Number	005_ IT21268908	
Assumptions	1	Encryption and other security technologies are used to protect sensitive information (customer credit card details)
Special contributions	1	Concerned about various payment options
	2	To obtain an idea, do some research and refer to existing online pharmacy systems
Challenges faced	Lack of knowledge of the online payment process, which uses credit cards.	

Number	005_ IT21268908	
Name	Make a payment	
Summary	User pays for the pharmaceuticals	
Priority	5	
Preconditions	User has to register to the system	
Postconditions	User gets the digital receipt	
Primary Actor(s)	Registered Customer	
Trigger	The user has chosen to pay for medications.	
Main Scenario	Step	Action
	1	User logs into the system
	2	User selects the cart page and clicks on the “Checkout” button
	3	User is redirected to the payment portal
	4	User selects a preferred payment method

	5	User chooses credit card payment method
	6	System asks for credit card details
	7	User enters the credit card number
	8	User enters the name on the credit card
	9	User enters the credit card CVV
	10	User enters the expiration date of the credit card
	11	User clicks on the "Place order" button
	12	System displays the confirmation message
Extensions	Step	Branching Action
	1a	System notifies login credentials are invalid, System asks to re-enter.
	7a	System notifies the credit card number is invalid, displays an error.
	8a	The system notifies that the name entered by the user was incorrect, displays an error.
	9a	System notifies the CVV is invalid, displays an error.
	10a	System notifies credit card's expiration date is invalid, displays an error.
	11a	User is returned to the payment entry if the payment fails.
Open Issues	1	Should the system provide the option to save the card details?
