BSc (Hons) in Information Technology

Assignment 1 Cover Sheet

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

PROJECT ID	MLB_01.01_03
CASE STUDY NAME	Online Pharmacy Portal
CAMPUS/CENTER	Malabe

Group Details:

	Student Registration Number	Student Name
1	IT22358202	B. N. P. Galwatta
2	IT22342508	W. Udara Demel
3	IT22313720	K. K. V. P. Ubesekara
4	IT22328120	Mark J. J.
5	IT22322326	Niruththika E.

Assignment 1 Certify Sheet

IT1060 – Software Process Modeling　　　　　　　　**Semester 1** Year

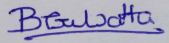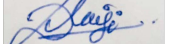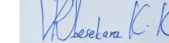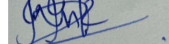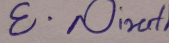**01 Semester II**- **2022**

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	B. N. P. Galwatta	IT22358202	04/28/2023	*BGalwatta*
2	W. Udara Demel	IT22342508	04/28/2023	*Dluja*
3	K. K. V. P. Ubesekara	IT22313720	04/28/2023	*VRbesekara K.K*
4	Mark J. J.	IT22328120	04/28/2023	*signature*
5	Niruththika E.	IT22322326	04/28/2023	*E. Niruththi*

Use Case Diagram

Online Pharmacy System

Unregistered User

Create account
Extp: Details are valid

<<extend>>

Add new user

Search shop

Edit account details

<<include>>

<<include>>

Validate user

<<include>>

Update user details

Login
Extp: Invalid username/password

<<include>>

<<extend>>

Password reset

<<include>>

Remove users

Analyze stock and suggestion marketing

Buy medicine
Extp: Need prescription

<<extend>>

Upload prescription

<<include>>

Paypal

Make payments

AMEX

Registered User

View location

Master/VISA

Cash on delivery

<<include>>

Update database

System Database

<<include>>

Update location

Generate reports

Deliver products

<<include>>

Delivery

Sales report

Access FAQ

Confirm delivery details

Stock report

Give feedback

Pharmacist

Pack medicine

<<include>>

<<include>>

<<include>>

Categorize and count medicine
Extp: Medicine unavailable

<<extend>>

Purchase medicine

Manage feedback

Manager

Manage FAQ

IT22358202 – B. N. P. Galwatta

Worked section

Actors

- Unregistered user
- Manager

Use cases

- Create account
- Search shop
- Manage feedback
- Manage FAQ

Special contributions

- As the leader of the group, managed all the members successfully to complete this assignment.
- Gathered all the work that the members did and created the final document.
- Analyzed the use cases for manager and unregistered user.

Challenges faced

- We faced some communication difficulties since we spoke different languages.
- We had to rush this assignment since the midterm exam was near and we also had other assignments to complete. But we managed to complete the assignment on time.

Use Case Scenario

User case ID	OPS01
Name	Buy medicine
Summary	User purchases medicine
Priority	02
Preconditions	User has an account in the system
Postconditions	User has purchased the required medicine
Primary actor(s)	Registered user
Trigger	User needs medicine

Main scenario	Step	Action
	01	User logs in to the system.
	02	User shops for the required medicine.
	03	User adds all items to the cart.
	04	User chooses a payment method.
	05	User selects a delivery method.
	06	User enters all the necessary details and submit.
	07	System verifies the information and sends a configuration message confirming the order.
Extensions	**Step**	**Branching Action**
	01a	If the username or password is incorrect, the system sends an error message and asks the user to re-enter the username correctly.
	02a	Required items might be out of stock.
	06a	If all the mandatory details are not filled, the system sends an error message, and the user must fill the details.
	07a	If the bank details are invalid, the system sends and error message rejecting the order.

IT22342508 - W. U. Demel

Worked section

Actors

- Delivery person

Use cases

- Update location
- Deliver products
- Confirm delivery details

Special contributions

- Helped to identify include and extend relationship use cases.
- Helped team members to draw use case diagrams.
- Analyzed the use cases of the delivery person.
- Searched for information about use case diagrams and scenarios by using the internet and YouTube.

Challenges Faced

- In my part of the assignment, I had to do the delivery guide user diagram. At the start, I had no idea how to draw it. So, I started to watch lecture recordings and got the idea of how to draw it.
- Communication with each other was hard because we are in five different districts and speak different languages.

Use Case Scenario

User case ID	OPS02
Name	Deliver product
Summary	Deliver medicine to the customer.
Priority	05
Preconditions	Acceptance of packaged medicine from the pharmacy that is ready to be delivered.
Postconditions	Dispensing medicines to customers who have ordered medicine and making notes about dispensing medicine packages.
Primary actor(s)	Delivery person
Trigger	Customer has ordered medicine.

Main scenario	**Step**	**Action**
	01	The parcel was accepted by the courier service.
	02	The parcel was handed over to the delivery person.
	03	Parcel delivery started.
	04	Deliver the medicine to the customer who ordered it.
	05	Handed over the medication parcel to the customer.
	06	Receiving money from customers who have ordered medicine according to the cash-on-delivery service.
	07	Obtaining a signature from the customer after delivery of the medicine parcel.
Extensions	**Step**	**Branching Action**
	01a	Non-acceptance of the parcel due to not packing according to the prescribed guidelines.
	03a	The address and delivery instructions were not given correctly.
	04a	The customer is not responding to the phone calls.
	05a	Transferring the parcel to another customer.

IT22313720 - K. K. V. P. Ubesekara

Worked section

Actors

- Registered user

Use cases

- Login
- Edit account details
- Buy medicine
- Access FAQ
- Give feedback

Special contributions

- Searched for information about use case diagrams and use case scenarios.
- Provided ideas to draw the use case diagram.
- Analyzed the use case of registered user.
- Corrected some errors in the use case diagram.

Challenges Faced

- Faced some difficulties in understanding some areas in use case scenarios. But later I got a clear idea about all these concepts after going through lectures and YouTube tutorials again.
- The assignment deadline and mid-semester exam were in the same week, and we had to work in a rush.
- Communication with each other was complex because our members speak different languages.

Use Case Scenario

User case ID	OPS03
Name	Login
Summary	User can use the system as a registered or unregistered user but for the buying medicine login is compulsory.
Priority	01
Preconditions	Every user must create an account.
Postconditions	Must display information about user, bought medicine and cart.
Primary actor(s)	Registered User, Unregistered User
Trigger	User needs to order medicine

Main scenario	Step	Action
	01	Enter the pharmacy portal on the search bar in any browser.
	02	Click on the correct website from the search results.
	03	Display the home page of website.
	04	Click on the login button.
	05	The user moves to the login interface.
	06	Enter the username and password correctly.
	07	User login to their account.

Extensions	Step	Branching Action
	01a	If the website address is incorrect the system displays inconsistent search results.
	06a	If the username is invalid, the system sends an error message and asks the user to re-enter the username correctly.
	06b	If the password is invalid, the system sends an error message and asks the user to re-enter the password correctly.
	06c	If the password is incorrect again and again the user must exit from the system or click on the forget password button.

IT22328120 - Mark J. J.

Worked section

Actors

- Pharmacist

Use cases

- Generate report
- Pack medicine
- Categorize and count medicine
- Purchase medicine

Special contributions

- Created and managed the include relationship between use cases.
- Analyzed the use cases of pharmacist.
- Used the internet and YouTube to look for information on use case diagrams and scenario.

Challenges faced

- We had no prior experience with this project, we had to observe the information about this project.
- Mid-exam and the IWT project bothered me, but we managed the time well and finished it well.

Use Case Scenario

User case ID	OPS04	
Name	Edit account details	
Summary	User updates their details	
Priority	04	
Preconditions	User has registered to the system.	
Postconditions	Successfully update the details to system database.	
Primary actor(s)	Registered user	
Trigger	User needs to change account details	
Main scenario	**Step**	**Action**
	01	User logs into their account using their username and password.
	02	User navigates to the section where they can update their details.
	03	User selects the specific details they wish to update.
	04	User enters the new information.
	05	User submits the changes.
	06	The system updates the details accordingly.
	07	System database conforms the user details.
Extensions	**Step**	**Branching Action**
	01a	If login credentials are incorrect the system displays an error message.
	01b	If the username and password are incorrect again the user must exit the system or choose the forgot password option.
	04a	The user may have to verify the new information.
	05a	If mandatory details are missing the system notifies to enter the mandatory details.

IT22322326 - Niruththika E.

Worked section

Actors

- System database

Use cases

- Add new user
- Update user details
- Remove users
- Analyze stock and suggestion marketing
- Update database

Special contributions

- Initially, drew a sample diagram for the use case.
- Gathered information related to system database (Actor) and made use case scenario.
- Helped group members to understand and draw the final use case diagram.
- Rechecked the errors in the final project.

Challenges faced

- It was difficult to understand the iterated connection between the actors once the work has been distinguished among the group members.
- With midterm examination pressure it was hard to contact with group members and work in the project.

Use Case Scenario

Use case ID	OPS05
Name	Add system user
Summary	System database add new user to the system
Priority	03
Pre-condition	The system database must have all the necessary information about the new user
Post-condition	The system database may notify the new user that their account has been created and provided them with their log in credentials
Primary actor	System database

Main success scenario	Step	Action
	01	Open the user management interface.
	02	Click the option to add a new user.
	03	Enter the new users name and any required identifying information such as, 1. Email address 2. NIC number
	04	Assign a username and password for the new user.
	05	Set appropriate permissions for the new user such as, 1. Access to specific files or applications
	06	Save the changes and exit the user management interface.

Extensions	Step	Branching action
	5a	If assigning a user name and password for the new user incorrect, the system database may encounter an error that indicates the issue "Invalid user name or Password format, please enter a valid username and password".