Sri Lanka Institute of Information Technology

Assignment 1

MLB_04.02_03

Online Recipe Management System

Software Process Modeling – IT1060

B.Sc. (Hons) in Information Technology

Assignment 1 Cover Sheet

IT1060 – Software Process Modeling   **Year I Semester II**

PROJECT ID	MLB_04.02_03
CASE STUDY NAME	Online Recipe Management System
CAMPUS/CENTER	Malabe Campus

Group Details:

	Student Registration Number	Student Name
1	IT23227804	N.V. RANDUNUGE
2	IT23227354	W.C.S.A LOWE
3	IT23218758	T.R.S SURAWEERA
4	IT23223912	L.H.R.C LAMAHEWA
5	IT23228658	I.W.K HASARANGA

Assignment 1 Certify Sheet

IT1060 – Software Process Modeling

Year I Semester II

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	N.V. RANDUNUGE	IT23227804	20/03/2024	
2	W.C.S.A LOWE	IT23227354	20/03/2024	
3	T.R.S SURAWEERA	IT23218758	20/03/2024	
4	L.H.R.C LAMAHEWA	IT23223912	20/03/2024	
5	I.W.K HASARANGA	IT23228658	20/03/2024	

Introduction

Foodify, recipe management system is a platform created by and for kitchen experts to organize and keep track of all recipes in one place. Foodify connects home cooks worldwide with their best source of inspiration – other home cooks. This website strives to be the best resource for every home cook who loves to share their family recipes, create new recipes, and review one another's recipes. The Foodify community's goal is not just to connect food enthusiasts with tasty global recipes, but we also want to help people understand cultural diversity through food.

Both registered as well as non-registered users can view recipes, read articles on cooking tips and tricks, and explore our e-cookbooks. If you are a registered user, you get the opportunity to share your own recipes, create articles, comment on your experiences after trying out recipes, and purchase our e-cookbooks to refer more information on cooking. If a user wishes to share a recipe that has been passed down in the family or a new recipe they came up with, they will have to get registered to the system and become a part of the community first. The user accounts are managed by the system administrator. A user-uploaded recipe will be published on the website, only if the recipe developing team approves the recipe after testing it. Each new recipe is run by a team of recipe testers, making sure the recipe meets the standards of our website. Only after our team decides if the recipe is good enough to go on Foodify, the system admin will update the website and, notify the user via an email, that their recipe has been approved to be published on the website.

Use Case Diagram
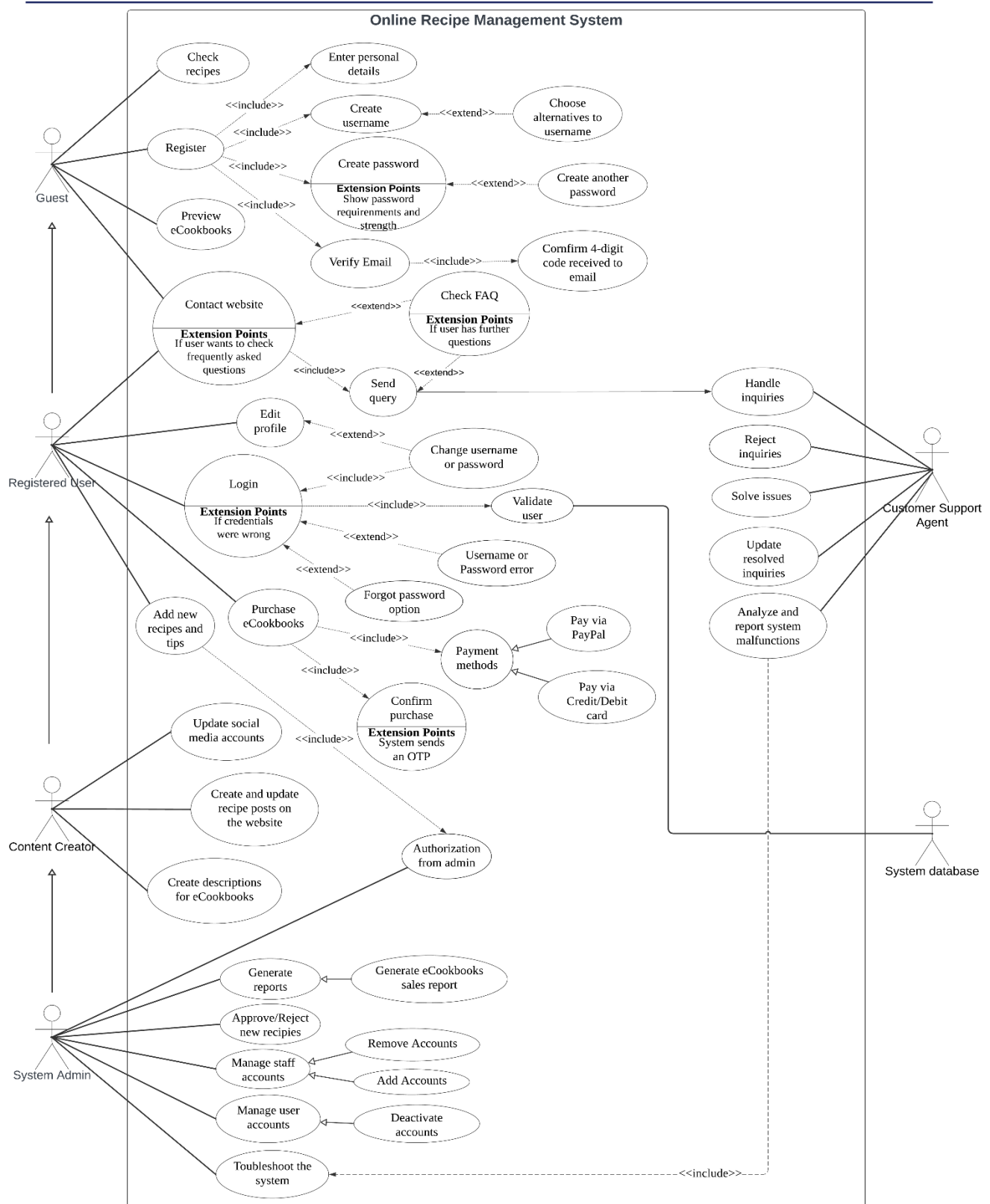
Use Case Scenarios

IT23227804 : N.V Randunuge

a) Individual Contribution

- Created use case diagrams for **System Admin, Edit profile.**
- Worked on actor **System Admin, Registered User**
- Worked on creating use case scenario for **Admin approving new recipes**.

b) Challenges faced

- Since for one whole week our academic activities were held online, it was a bit difficult to meet the team members and complete the assignment.
- We used lucidchart.com to create a team and draw the use case diagram together. But later discovered that the platform provides only limited usage of the software. So, we had to agree to a free 7-day trial to continue our work.
- As the group leader, I had to check mistakes in my team members individual work and ask them to correct them multiple times.

IT1060 – Software Process Modeling

Number	01
Name	Approve User Uploaded Recipe
Summary	This scenario describes the process of system admin approving a user uploaded recipe for publication on the website
Priority	01
Pre-condition	Admin has logged into the system dashboard
Post-condition	Approved recipe is successfully published on the website
Primary actor	System Administrator
Triger	A user has submitted a recipe for approval

Main success scenario	Step	Action
	1.	System Admin receives a notification that a user has submitted a recipe for approval
	2.	System admin opens the recipe approval interface
	3.	Admin reviews the recipe details
	4.	System admin forwards all the recipe details to the recipe developing team
	5.	Once the team approves the recipe, system admin marks the recipe as "Approved" in the system
	6.	System admin notifies the user via email that their recipe has been approved for publication
	7.	System admin forwards the recipe details to website's content creator to create a recipe post for the approved recipe
Extensions	**Step**	**Branching Action**
	3a.	Admin checks if a similar recipe already exists
	5a.	If the team decides to reject the recipe, the recipe will be marked as "Rejected" in the system
	5b.	If the recipe is rejected, system admin notifies the user via email, providing reasons for rejection.
Open issues	As the number of user-uploaded recipes rises, it could lead to delays in approving recipes and backlog in pending submissions	

IT23227354 : W.C.S.A Lowe

a) Individual Contribution

- Created use case diagrams for **Add new recipes, Login.**

- Worked on Actor - **Registered user.**

- Worked on creating use case scenario for **uploading a new recipe.**

b) Challenges faced

- It was difficult when organizing use cases in the case diagram because there are multiple use cases that link with other actors.

- Issues with power failure and connection from time to time

Number	02
Name	Uploading a recipe
Summary	User adding recipes to website.
Priority	02
Pre-condition	The user must be a registered user.
Post-condition	The recipe is successfully uploaded, and user is given all the credits for the recipe.
Primary actor	Registered user.
Triger	User wishes to share a recipe.

Main success scenario	Step	Action
	1.	User navigates to Recipe page
	2.	User clicks on "Create New Recipe" button
	3.	User provides recipe details including ingredients, steps of preparation, preparation time etc.
	4.	User uploads a relevant image of the prepared dish.
	5.	Clicks "Upload" button
	6.	Within approximately 5 days, user gets an email about recipe approval/denial
	7.	User can request to edit or delete his/her recipe later if wanted
Extensions	**Step**	**Branching Action**
	4a.	If the uploaded image doesn't meet requirements, the user is asked to choose another image.
	6a.	The system checks if a similar recipe already exists.
	6c.	The system sends an email saying whether the recipe is being approved or not
	7a.	The system contacts the user through email
	7b.	The system handles interactions and updates recipe post properly.
Open issues	Should the system ask the user to read and agree to a licensing agreement that specify how the platform can use, modify, or distribute user-submitted recipes ?

IT23218758 : T.R.S Suraweera

a) Individual Contribution

- Created use case diagrams for **Purchase e-Cookbook.**

- Worked on Actor - **Registered user.**

- Worked on creating use case scenario for **request for Purchase e-Cookbooks.**

b) Challenges faced

- I have face signal issues and connection issues in the university.

- Difficult to identify and select the most important use cases for the assignment.

- We had to submit another two assignments as well, so we had to manage our time.

Number	03
Name	Purchase e-Cookbook
Summary	User purchasing an e-Cookbook
Priority	02
Pre-condition	To purchase e-Cookbooks the user must be a registered user
Post-condition	System sends the e-Cookbook through an email to the user with a note to of gratitude
Primary actor	Registered user
Triger	User wants to purchase an e-Cookbook.

Main success scenario	Step	Action
	1.	Visit the web site.
	2.	Go to Cookbooks tab
	3.	The website displays a list of available e-Cookbooks
	4.	User selects the desired cookbook to purchase
	5.	User clicks on "Add to cart" or "Buy now" button
	6.	User selects the preferred payment method
	7.	Click "confirm"
	8.	User receives the e-Cookbook to his/her email

Extensions	Step	Branching Action
	5a.	User can purchase the cookbook later if they add it to the cart
	7a.	User can cancel order
	7b.	System sends an OTP to user, to confirm the order
	7c.	System notifies the user if there was any technical error
	8a.	System receives the payment successfully and sends an Email to user
Open issues	Should the system verify that there is enough support available to assist customer with any issues that might face obtaining e-cookbooks or using them.	

IT1060 – Software Process Modeling

IT23223912 : L.H.R.C Lamahewa

a) Individual Contribution.

- Create use case diagrams for **Customer Support, Checking FAQs.**
- Worked on actors – **Customer Support & Registered user.**
- Worked on creating use case scenarios **for Seeking support as a user & Providing customer support as the support agent.**

b) Challenges faced.

- We had another assignment to submit, so we had to manage our time.
- Sometimes I faced internet issues while working at the campus.

Number	04
Name	User contacting the website for support
Summary	This use case scenario describes the process of how a user can contact the website for support
Priority	02
Pre-condition	The user doesn't necessarily have to be a registered member
Post-condition	The user's problem is fixed to his/her satisfaction
Primary actors	Guest / Registered Users
Triger	User needs help

Main success scenario	Step	Action
	1.	User visits the website
	2.	User checks FAQs to see if they have answers for his/her problem
	3.	If not, user clicks on the "Contact Us" button.
	4.	User fills out and submits the direct contact form, with including their name, email address and the message
	5.	User gets a response from the support agent to their email
	6.	User follows the agent's assistance to fix the issue
Extensions	**Step**	**Branching Action**
	5a.	Support agent informs if user's question is not clear and ask them to direct the question again
	5b.	Support agent solves the issue
	5c.	If it is a technical issue, support agent will report it to the system admin
	6a.	System asks user to give feedback about how satisfied they were with the customer support service
Open issues	1. During peak hours some users experience slow response.
	2. Some users require multilingual support.

Number	04
Name	Handling Inquiries
Summary	This use case scenario describes the process of how the inquiries are handled by the support agent
Priority	02
Pre-condition	The support agent has logged into the online recipe management system.
Post-condition	The user receives assistance from the support agent.
Primary actor	Customer Support agent
Triger	Support agent handles inquiries when a user contacts the support desk for help

Main success scenario	Step	Action
	1.	Support agent opens the support desk interface
	2.	Checks direct contact messages.
	3.	Support agent reads the user queries.
	4.	Support agent checks whether there were similar questions solved before
	5.	Analyse the query and provide solutions to the user
	6.	Support agent updates the status of the query as "Escalated".
	7.	Then Agent moves on to the next user's message.
Extensions	**Step**	**Branching Action**
	4a.	If the same question has been answered before, agent will inform user to check the FAQs once again
	5a.	Support agent analyses and reports system malfunctions to the system admin
	5b.	The support agent collaborates with other team members to find solutions
Open issues		How can the support agent access relevant articles or solutions from the knowledge base?
		How does the system collect feedback from users regarding support interactions?

IT1060 – Software Process Modeling

IT23228658 : I.W.K Hasaranga

a) Individual Contribution:

- Create use case diagrams for **Register.**

- Worked on actors – **Guest User**

- Worked on creating use case scenarios for **Registering to the system.**

b) Challenges faced:

- I had time management issues.

- I faced some internet issues while working on the assignment.

Number	05
Name	Register
Summary	Process of how a user can register to the system
Priority	01
Pre-condition	User must visit the website
Post-condition	The user is successfully registered and can access the system
Primary actor	Guest user
Triger	A guest user wants to register to the Recipe Management System.

Main success scenario	Step	Action
	1.	Guest user explores the Recipe Management System.
	2.	User selects the option to "Sign Up"
	3	System prompts the user to provide personal details
	4.	User enters the full name and email address
	5.	User creates a username and a password, and re-enters the password
	6.	System validates the entered information.
	7.	User clicks on "Register"
	8.	System sends a 4 digits code to email to confirm the email address
	9.	User confirms the email address by entering the code
	10.	The system generates a new account for the user
	11.	User is directed to a profile page
Extensions	**Step**	**Branching Action**
	4a.	System notifies that the entered email is invalid
	5a.	In advance, system offers alternative methods to username (ex: continue with google account, email address, phone number)
	5b.	System shows password requirements and strength upfront
	5c.	System notifies the re-entered password doesn't match the created password
	6a.	System notifies that the user entered information is invalid/ incomplete.
	8a.	System notifies that the email is not confirmed

BSc (Hons) in Information Technology
Assignment I – Marking Scheme

IT1060 – Software Process Modeling

Group Number: MLB_WD_04.02_03   **Case Study Topic: Online Recipe Management System**

Use Case Diagram	*Max. Mark*	*IT23227804*	*IT23227354*	*IT23218758*	*IT23223912*	*IT23228658*
1. Main use cases (at least 10)	25 Marks					
2. Actors and Actor Generalization	10 Marks					

3. Relationships between use cases (at least 5 each)
    a. Include -•• 5 Marks
    b. Extend -•• 10 Marks
    c. Generalization - ••10Marks
	25 Marks					

4. Creative thinking	5 Marks					
5. Accuracy and Completeness – (System name, boundary etc.)	5 Marks					
6. Contribution to use case diagram (Individual Mark) •Each member should comment on a) Section worked on b) Special contributions c) Challenges faced	10 Marks					
Sub Total Marks						
Comments						

BSc (Hons) in Information Technology

Assignment I – Marking Scheme

IT1060 – Software Process Modeling

Use Case Scenario (Individual Mark)	Max. Mark	IT23227804	IT23227354	IT23218758	IT23223912	IT23228658
7. Use case ID, Use case Name, Primary actor Pre-conditions and Post-conditions	5 Marks					
8. Main Success Scenario	10 Marks					
9. Extensions	5 Marks					
Sub Total Marks						
Comments						
Total	**100 Marks**					