

Sri Lanka Institute of Information Technology



Assignment 2

MLB\_04.02\_03

Online Recipe Management System

**Software Process Modeling – IT1060**

B.Sc. (Hons) in Information Technology

**IT1060 – Software Process Modeling****February 2024****Assignment 2 Cover Sheet**

<b>CASE STUDY NAME</b>	Online Recipe Management System
<b>PROJECT ID</b>	MLB_04.02_03

**Group Details:**

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



## BSc (Hons ) in Information Technology

IT1060 – Software Process Modeling

February 2024

### Assignment 2 Certify Sheet

I hereby certify,



The attached is my own work and no further changes will be made.




I have contributed in this assignment to the best of my ability.

And I understand,



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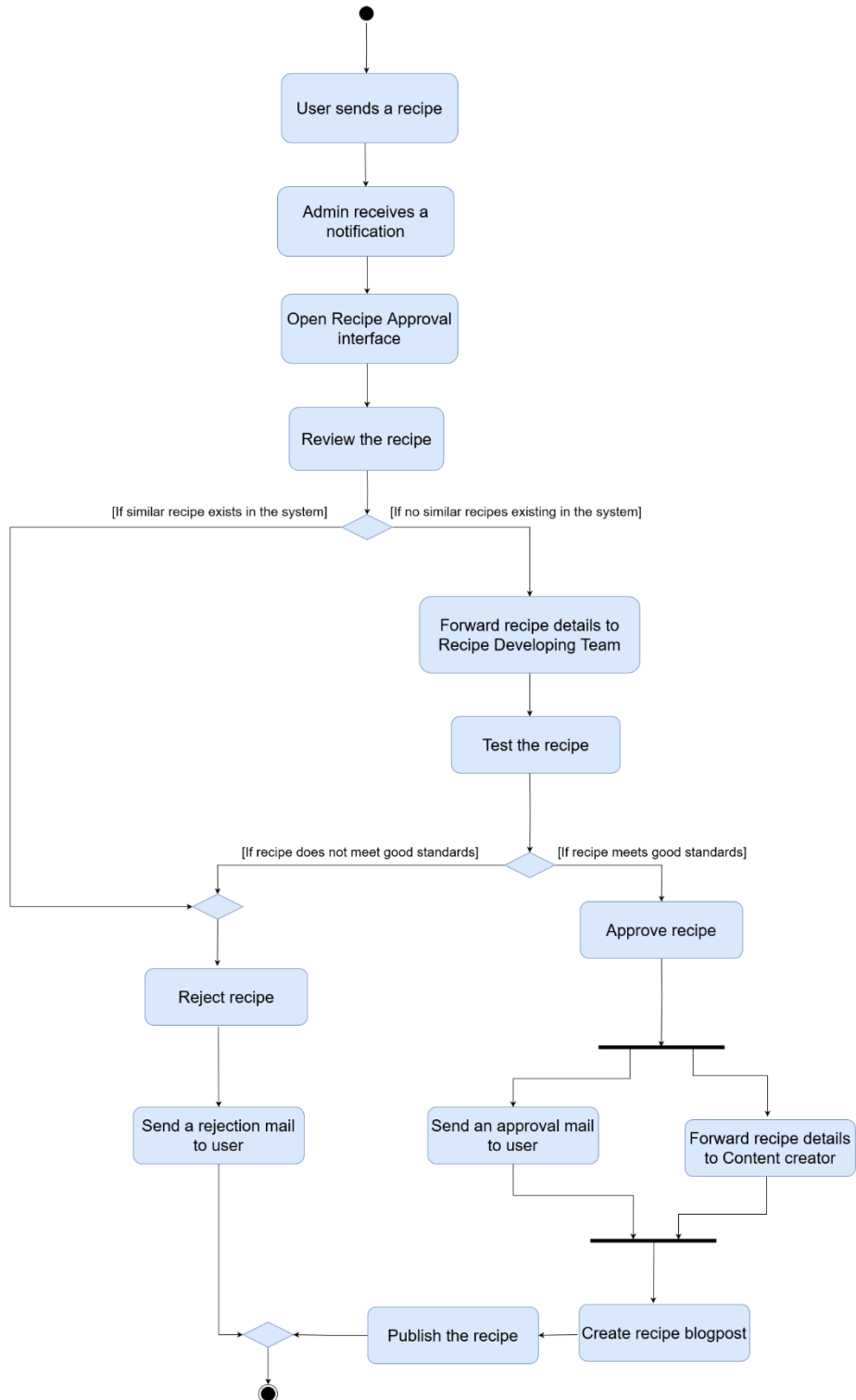
### Student Details:

Student Name	Student Registration Number	Date	Signature
N.V. RANDUNUGE	IT23227804	26/04/2024	

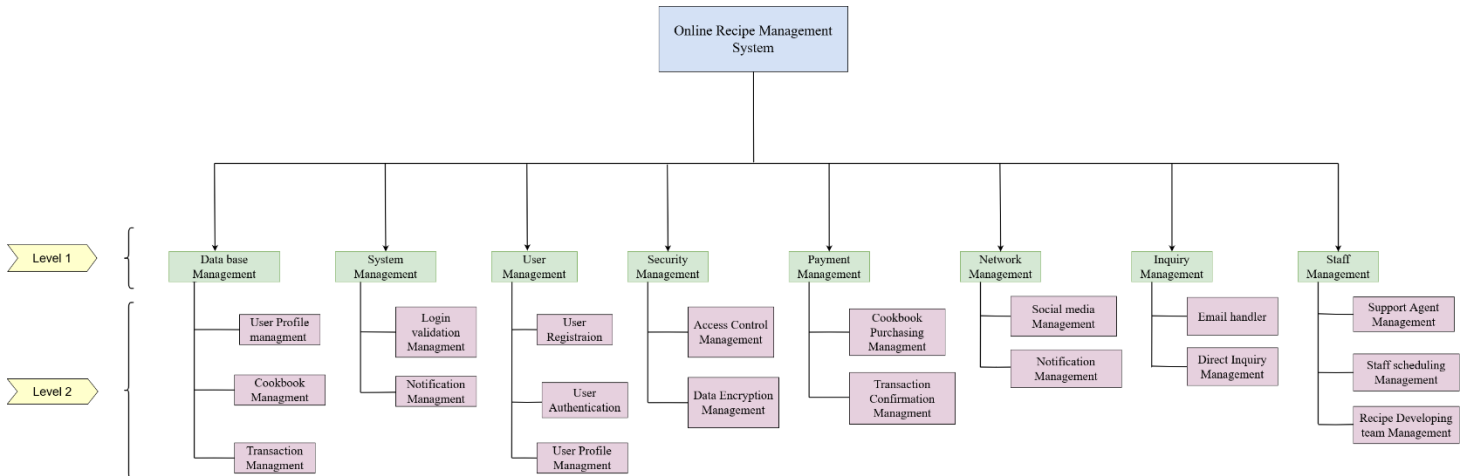
### Part 1 – (1)

<b>Number</b>	01	
<b>Name</b>	Approving a User Uploaded Recipe	
<b>Summary</b>	This scenario describes the process of system admin approving a user uploaded recipe for publication on the website	
<b>Priority</b>	01	
<b>Pre-condition</b>	Admin has logged into the system dashboard	
<b>Post-condition</b>	Approved recipe is successfully published on the website	
<b>Primary actor</b>	System Administrator	
<b>Triger</b>	A user has submitted a recipe for approval	
<b>Main success scenario</b>	<b>Step</b>	<b>Action</b>
	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 blogpost for the approved recipe
<b>Extensions</b>	<b>Step</b>	<b>Branching Action</b>
	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.

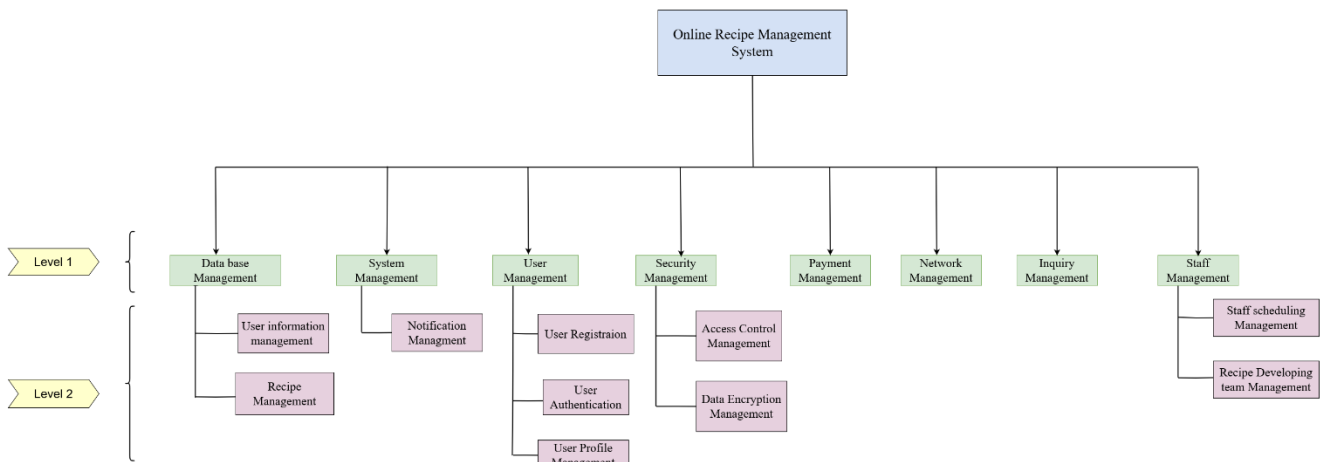
**Part 1 – (2)**



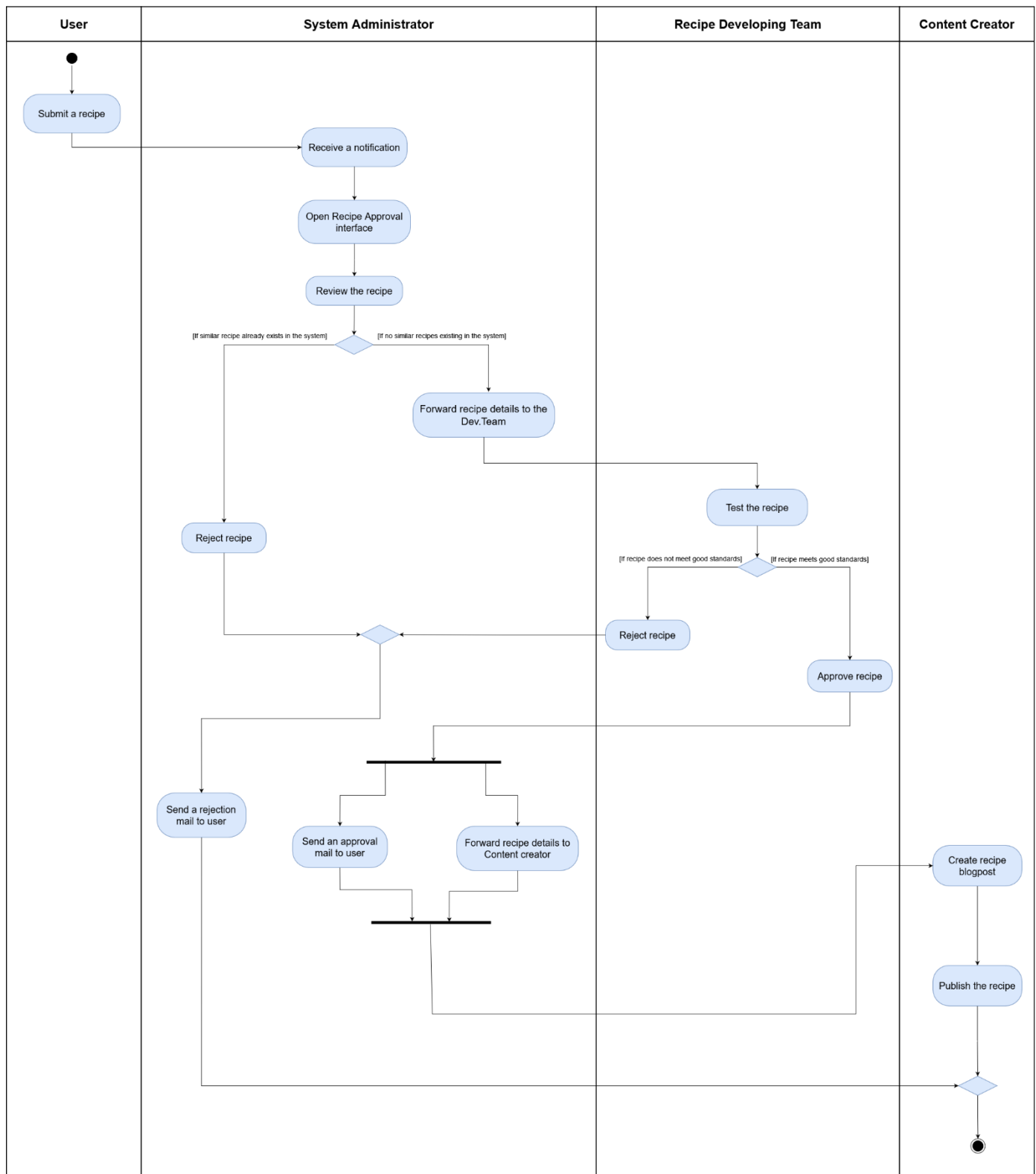
## Part 2 – (1)



*Related to approving a user uploaded recipe*



## Part 2 – (2)



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<b>Student Name</b>	<b>Student Registration Number</b>	<b>Date</b>	<b>Signature</b>
W.C.S.A LOWE	IT23227354	26/04/2024	



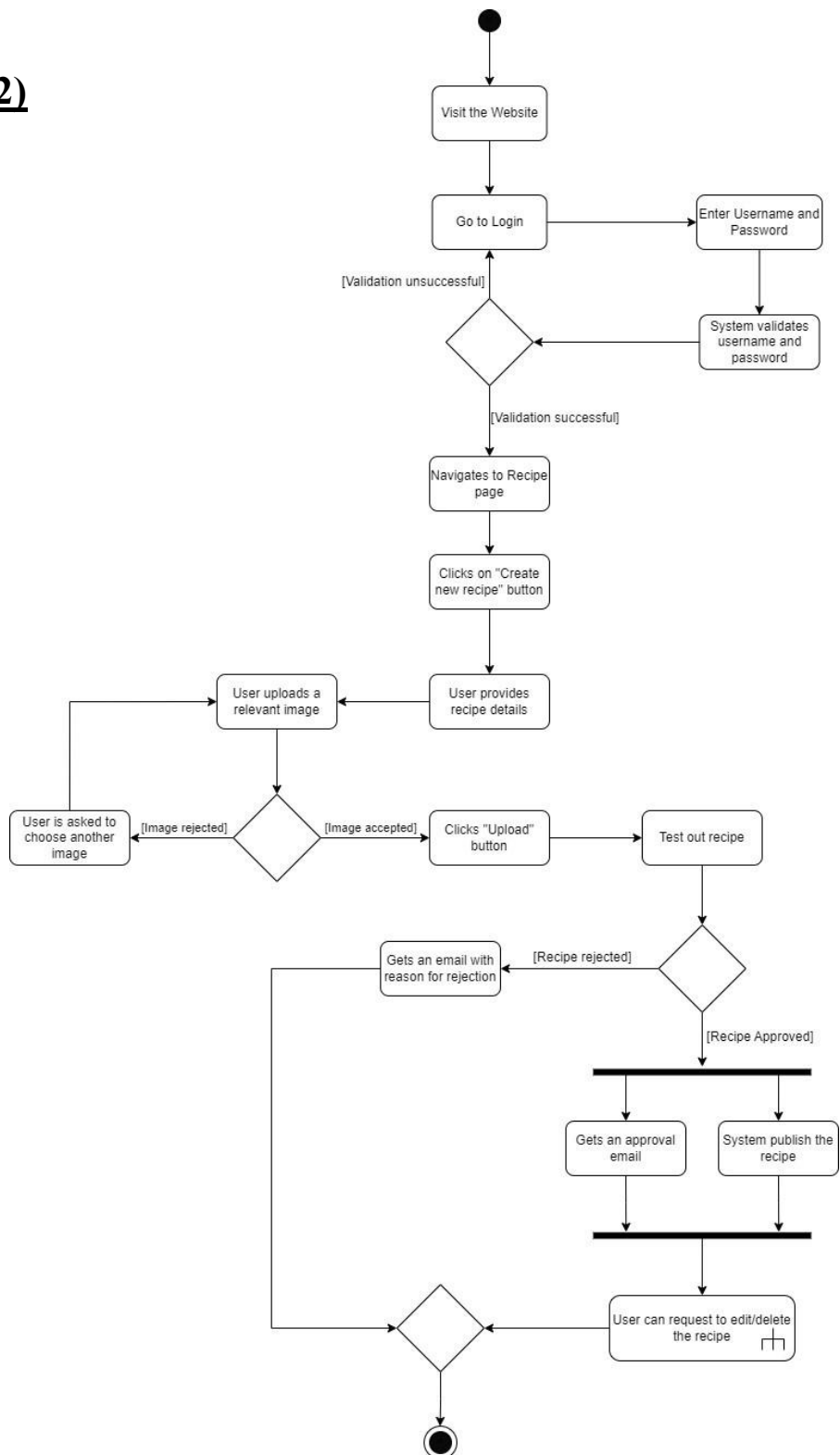
### Part 1 – (1)

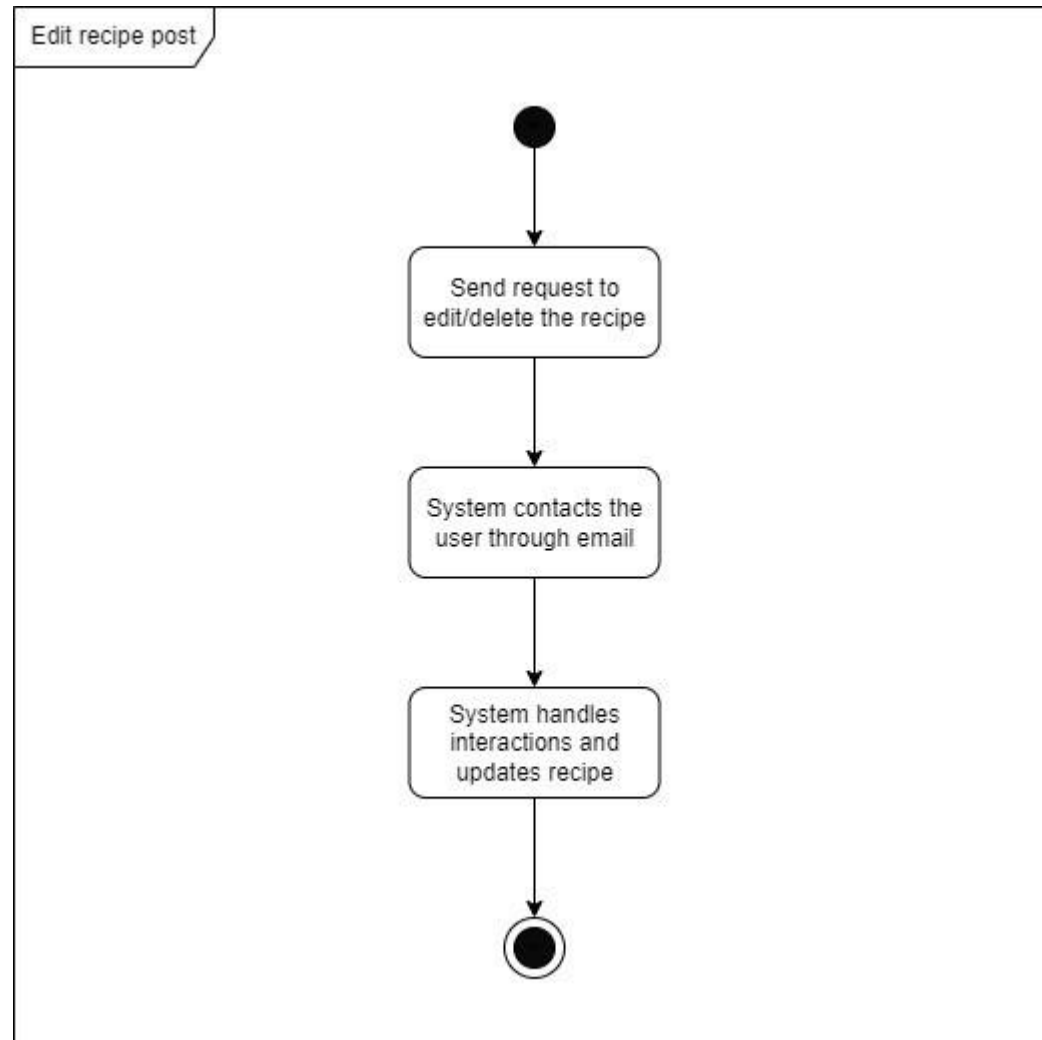
<b>Number</b>	02	
<b>Name</b>	Uploading recipes.	
<b>Summary</b>	User adding recipes to website.	
<b>Priority</b>	02	
<b>Pre-condition</b>	The user has the necessary permissions to upload recipes.	
<b>Post-condition</b>	The recipe is successfully uploaded and accessible to other users.	
<b>Primary actor</b>	Registered user.	
<b>Triger</b>	User decides to upload a recipe.	
<b>Main scenario</b>	<b>Step</b>	<b>Action</b>
	1.	User login to the site.
	2.	User goes to Recipe page
	3.	User clicks on “Create New Recipe” button
	4.	User provides recipe details
	5.	User uploads a relevant image of the prepared dish.
	6.	Clicks “Upload” button
	7.	User gets an email about recipe approval
	8.	User can edit or delete their recipe later if wanted
<b>Extensions</b>	<b>Step</b>	<b>Branching Action</b>
	1a.	System notifies username is incorrect.
	1b.	System notifies password is incorrect.
	5a.	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.
	6b.	The system sends an email saying whether the recipe is being approved or not
	8a.	The systems handle interactions and updates recipes post properly.

## Use case scenario of call action - Editing recipe post :

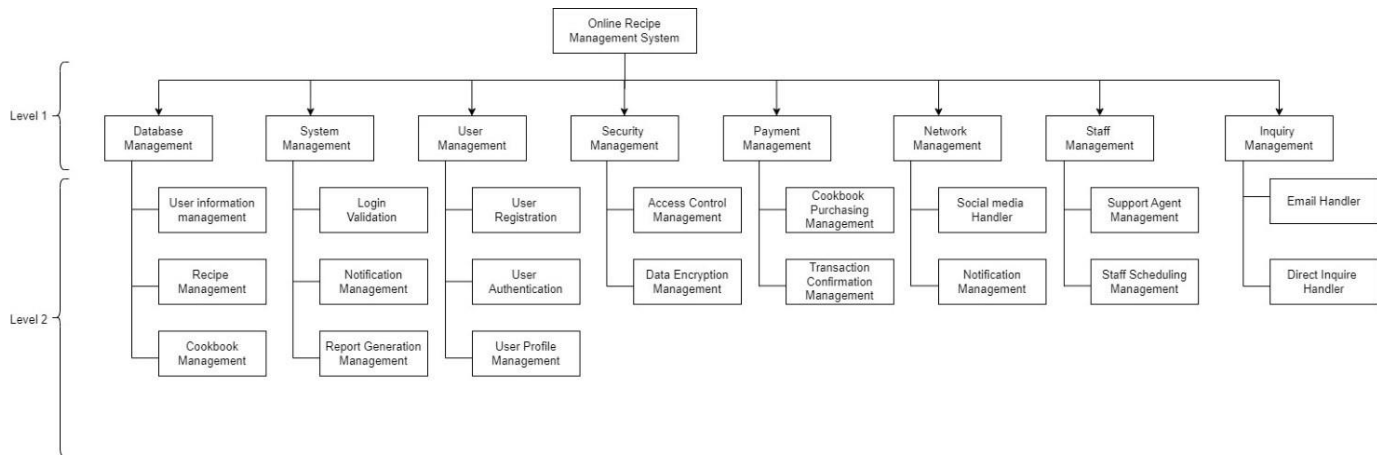
<b>Number</b>	02	
<b>Name</b>	Editing recipe post.	
<b>Summary</b>	User editing / deleting recipes.	
<b>Priority</b>	02	
<b>Pre-condition</b>	The user possesses the required authorization to edit/delete recipes.	
<b>Post-condition</b>	The edited recipe has been effectively updated.	
<b>Primary actor</b>	Registered user.	
<b>Triger</b>	User opts to edit/delete a recipe.	
<b>Main scenario</b>	<b>Step</b>	<b>Action</b>
	1.	User visits the website.
	2.	User goes to Recipe page.
	3.	User searches for their recipe
	4.	User clicks on “Edit Recipe” button.
	5.	User sends a request to edit the recipe, with what needs to be updated
<b>Extensions</b>	<b>Step</b>	<b>Branching Action</b>
	5a.	System contacts the user through email.
	5b.	System handles interactions and updates recipe.

## Part 1 – (2)

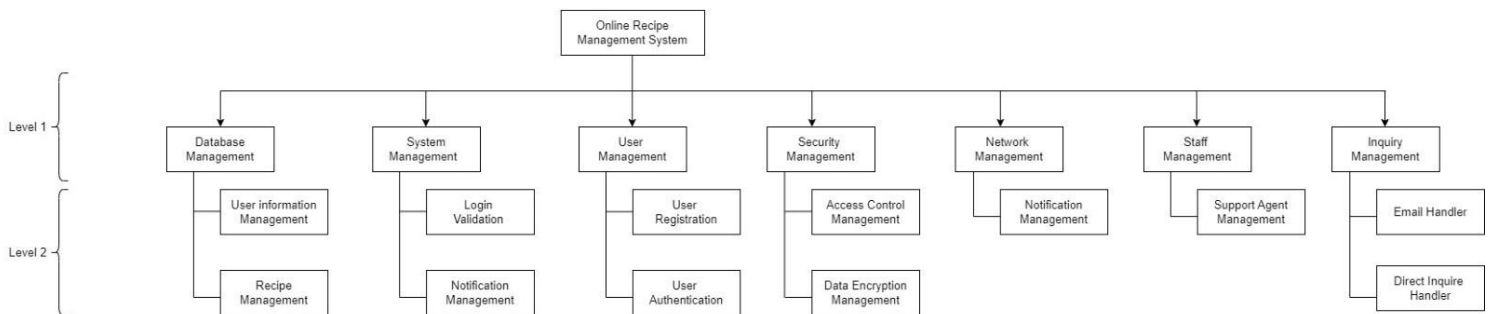




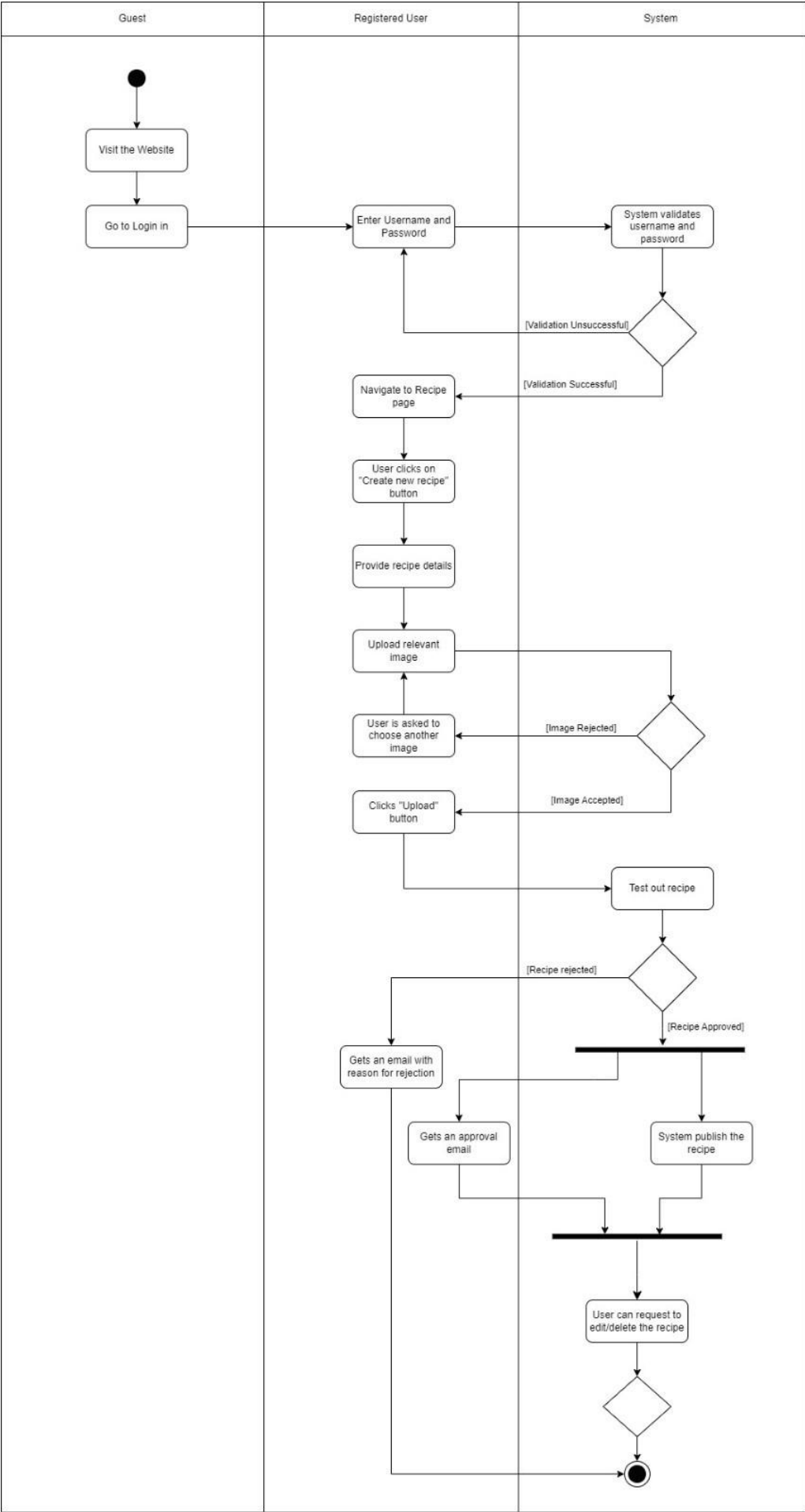
## Part 2 – (1)



Related to Adding Recipe Management



**Part 2 – (2)**



**Assignment 2 Certify Sheet**

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**Student Details:**

<b>Student Name</b>	<b>Student Registration Number</b>	<b>Date</b>	<b>Signature</b>
T.R.S SURaweera	IT23218758	24/04/2024	

### PART 1 (i)

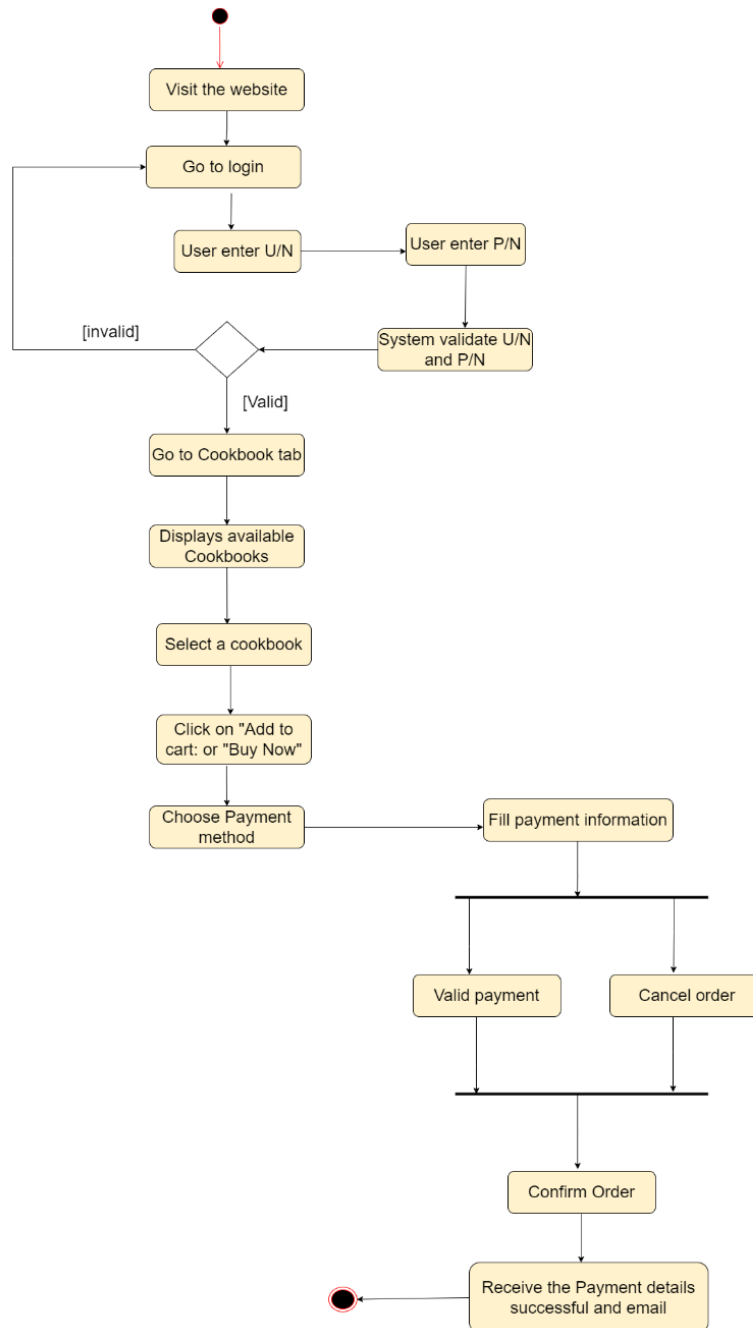
Use case name - Purchase cookbook

<b>Number</b>	03	
<b>Name</b>	Purchase e- cookbook	
<b>Summary</b>	User purchasing e- Purchase cookbook	
<b>Priority</b>	02	
<b>Pre-condition</b>	To purchase cookbooks the user must be a registered user.	
<b>Post-condition</b>	System sends the e-Cookbook through an email to the user with a note to gratitude.	
<b>Primary actor</b>	Registered user	
<b>Triger</b>	User wants to purchase e-cookbook.	
<b>Main scenario</b>	<b>Step</b>	<b>Action</b>
	1.	Visit the web site.
	2.	Login using credential
	3	Go to cookbook tab
	4.	The website displays a list of available e-cookbooks
	5.	User selects the desired cookbook to purchase
	6.	User clicks on the “Add to cart” or “Buy now” button
	7.	User selects the preferred payment method
	8.	Click “confirm”
	9.	Payment successful and User receives the e-Cookbook to his/her email
<b>Extensions</b>	<b>Step</b>	<b>Branching Action</b>
	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



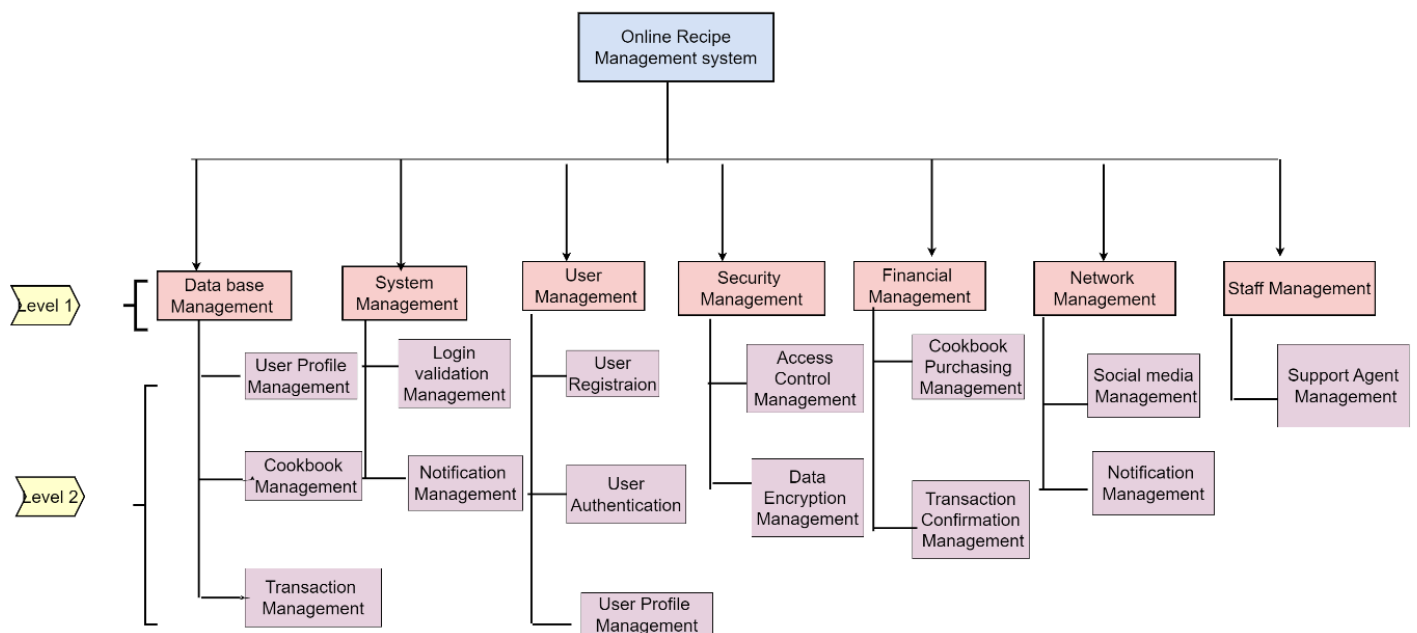
## PART 1 (ii)

### Activity Diagram



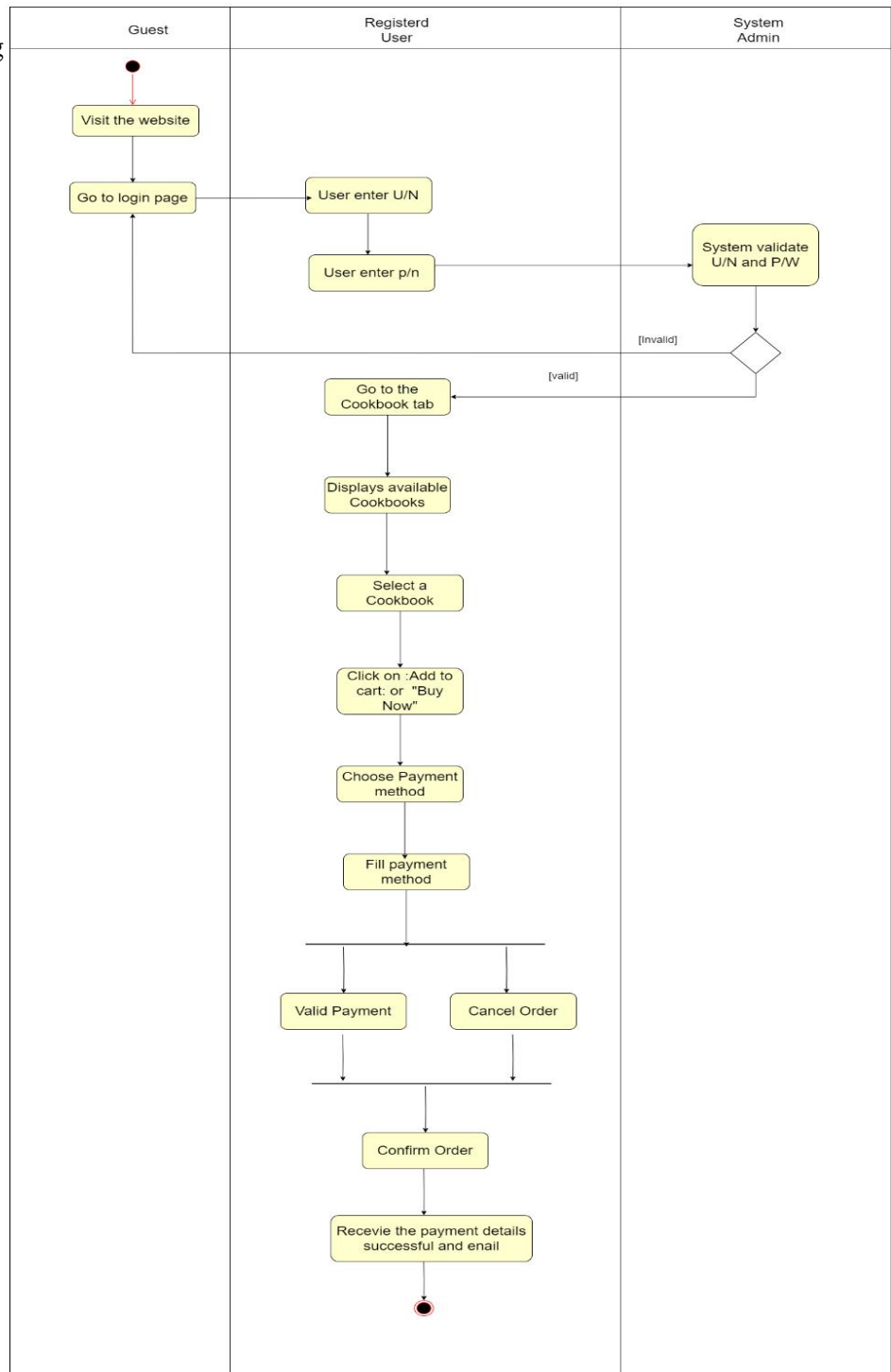
## PART 2 (i)

### Sub Systems



## PART 2 (ii)

Activity Diagram with partitioning



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<b>Student Name</b>	<b>Student Registration Number</b>	<b>Date</b>	<b>Signature</b>
L.H.R.C LAMAHEWA	IT23223912	27/04/2024	

### Part 1 – 1

**Actor: Registered user.**

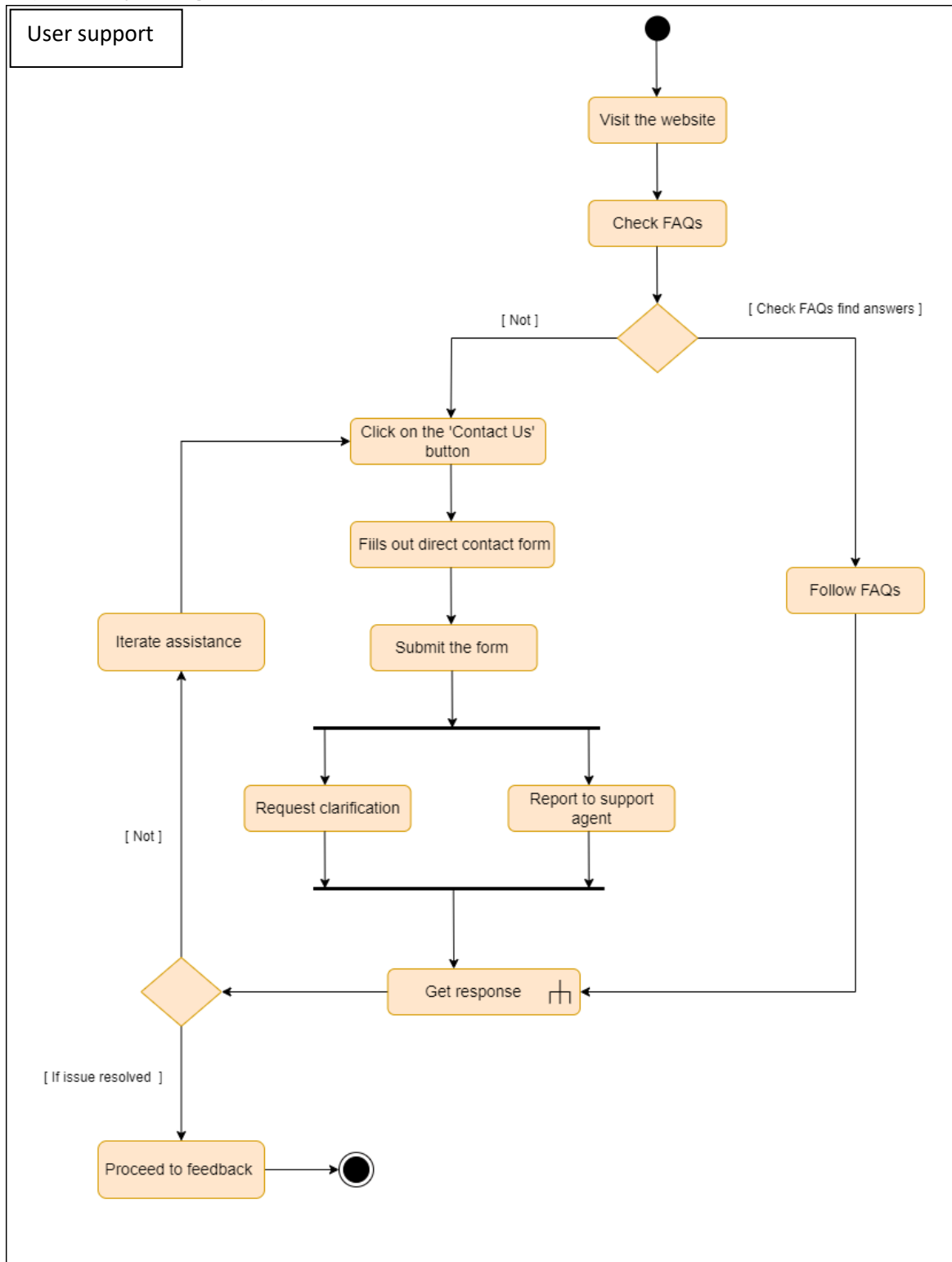
**Use Case Name: User Support.**

<b>Number</b>	04	
<b>Name</b>	User support	
<b>Summary</b>	This use case scenario describes the process of how a user can contact the website for support	
<b>Priority</b>	02	
<b>Pre-condition</b>	The user doesn't necessarily have to be a registered member	
<b>Post-condition</b>	The user's problem is fixed to his/her satisfaction	
<b>Primary actors</b>	Guest / Registered Users	
<b>Triger</b>	User needs help	
<b>Main success scenario</b>	<b>Step</b>	<b>Action</b>
	1.	User visits the website.
	2.	Check FAQs.
	3.	User checks FAQs to see if they have answers for his/her problem.
	4.	If not, user clicks on the "Contact Us" button.
	5.	User fills out and submits the direct contact form, with including their name, email address and the message.
	6.	User gets a response from the support agent to their email.
	7.	User follows the agent's assistance to fix the issue.
<b>Extensions</b>	<b>Step</b>	<b>Branching Action</b>
	6a.	Support agent informs if user's question is not clear and ask them to direct the question again.
	6b.	Support agent solves the issue.
	6c.	If it is a technical issue, support agent will report it to the system admin.
	7a.	System asks user to give feedback about how satisfied they were with the customer support service.

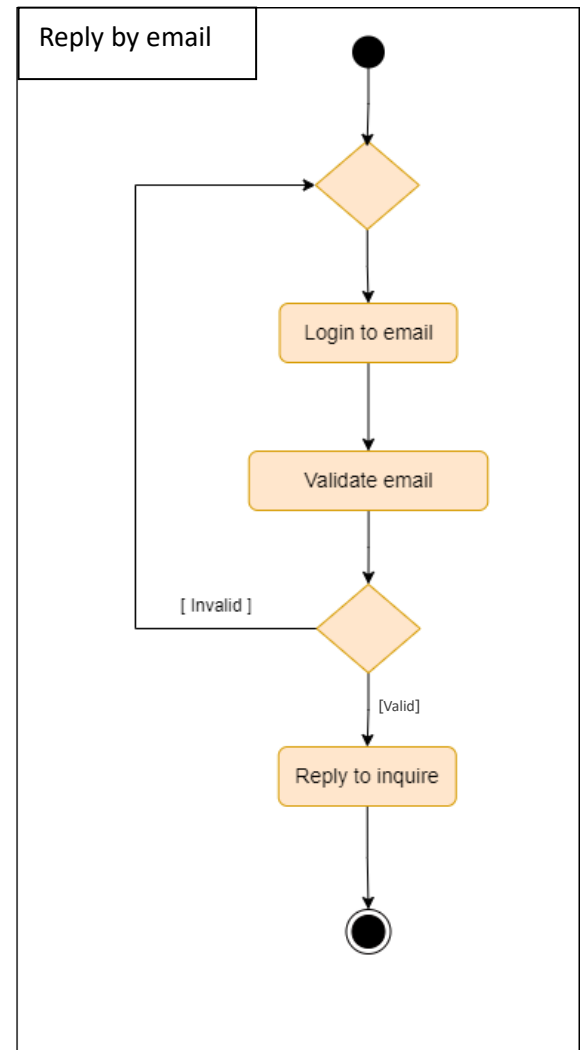
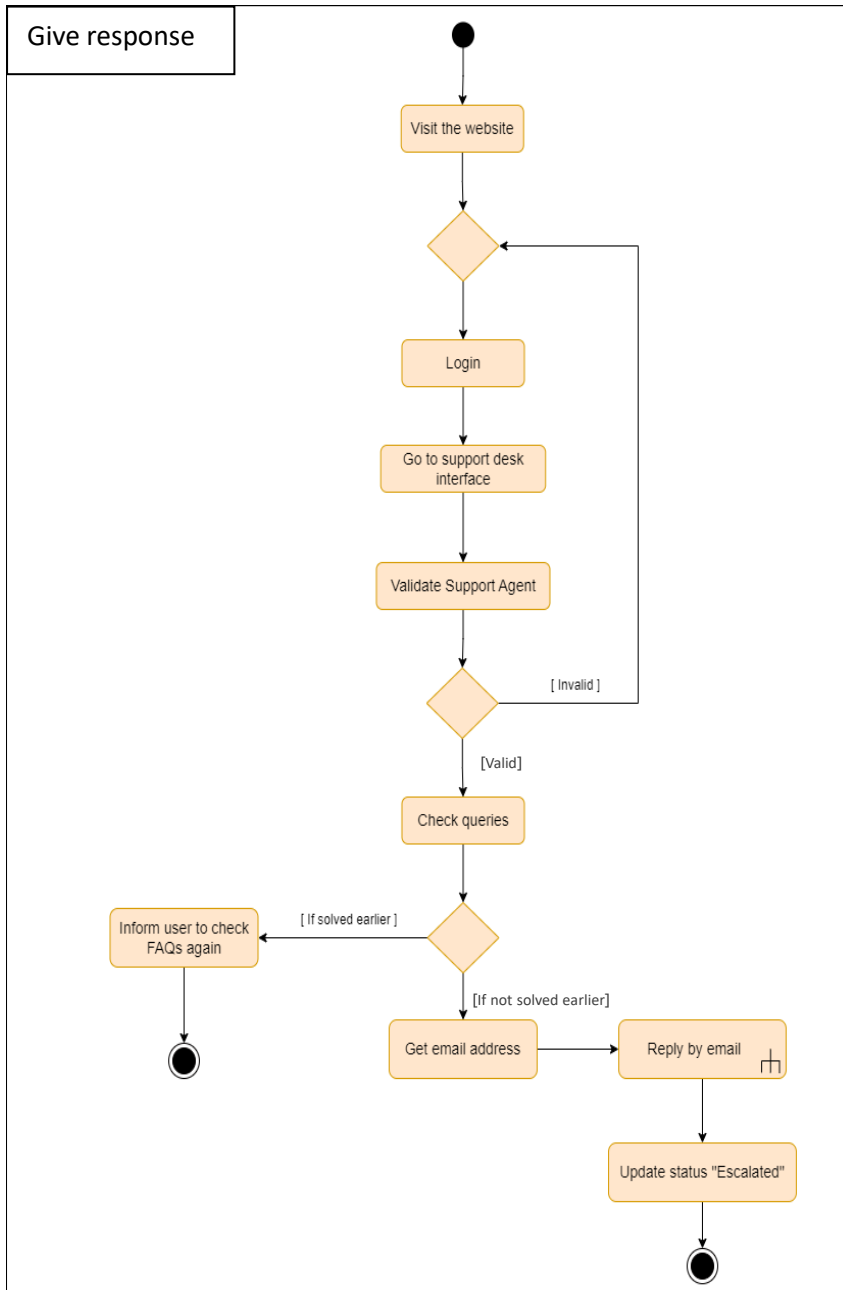
### Call action / Sub activities:

<b>Number</b>	04	
<b>Name</b>	Handling Inquiries	
<b>Summary</b>	This use case scenario describes the process of how the inquiries are handled by the support agent	
<b>Priority</b>	02	
<b>Pre-condition</b>	The support agent has logged into the online recipe management system.	
<b>Post-condition</b>	The user receives assistance from the support agent.	
<b>Primary actor</b>	Customer Support agent	
<b>Trigger</b>	Support agent handles inquiries when a user contacts the support desk for help	
<b>Main success scenario</b>	<b>Step</b>	<b>Action</b>
	1.	Visit the website.
	2.	Support agent login and go to the support desk interface.
	3.	Support agent checks 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”.
<b>Extensions</b>	<b>Step</b>	<b>Branching Action</b>
	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

## Part 1 – 2 (Activity Diagram)

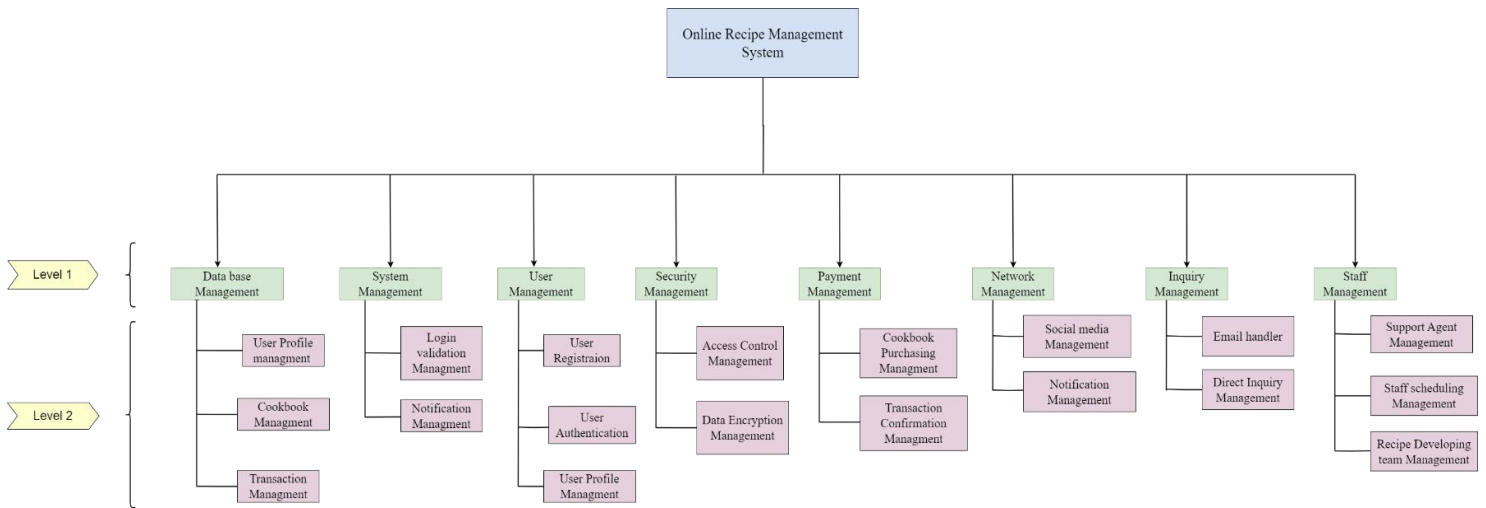


## Call action / Sub activities:

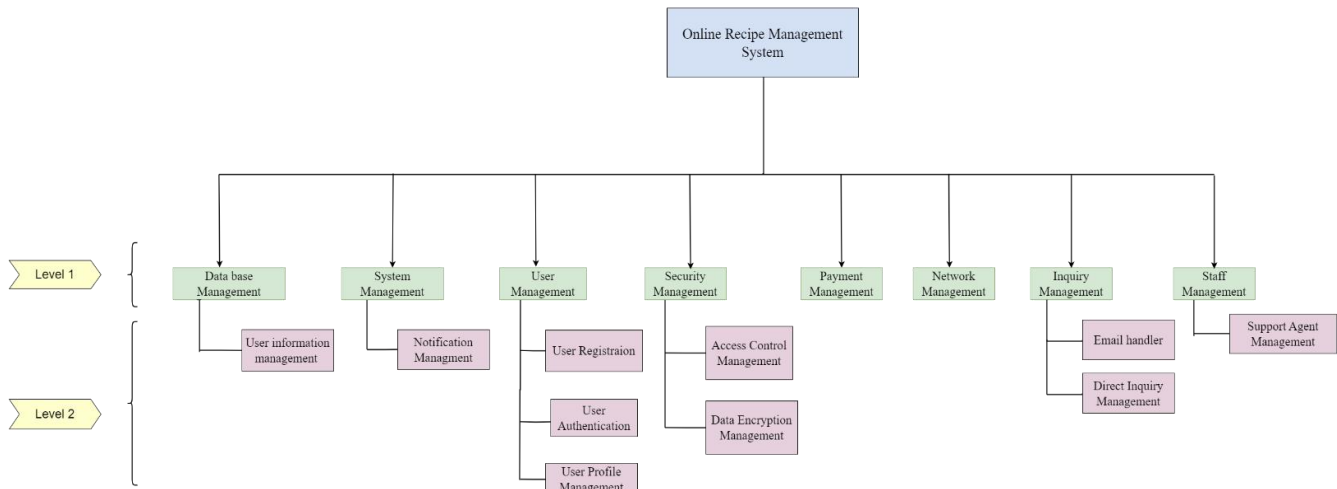




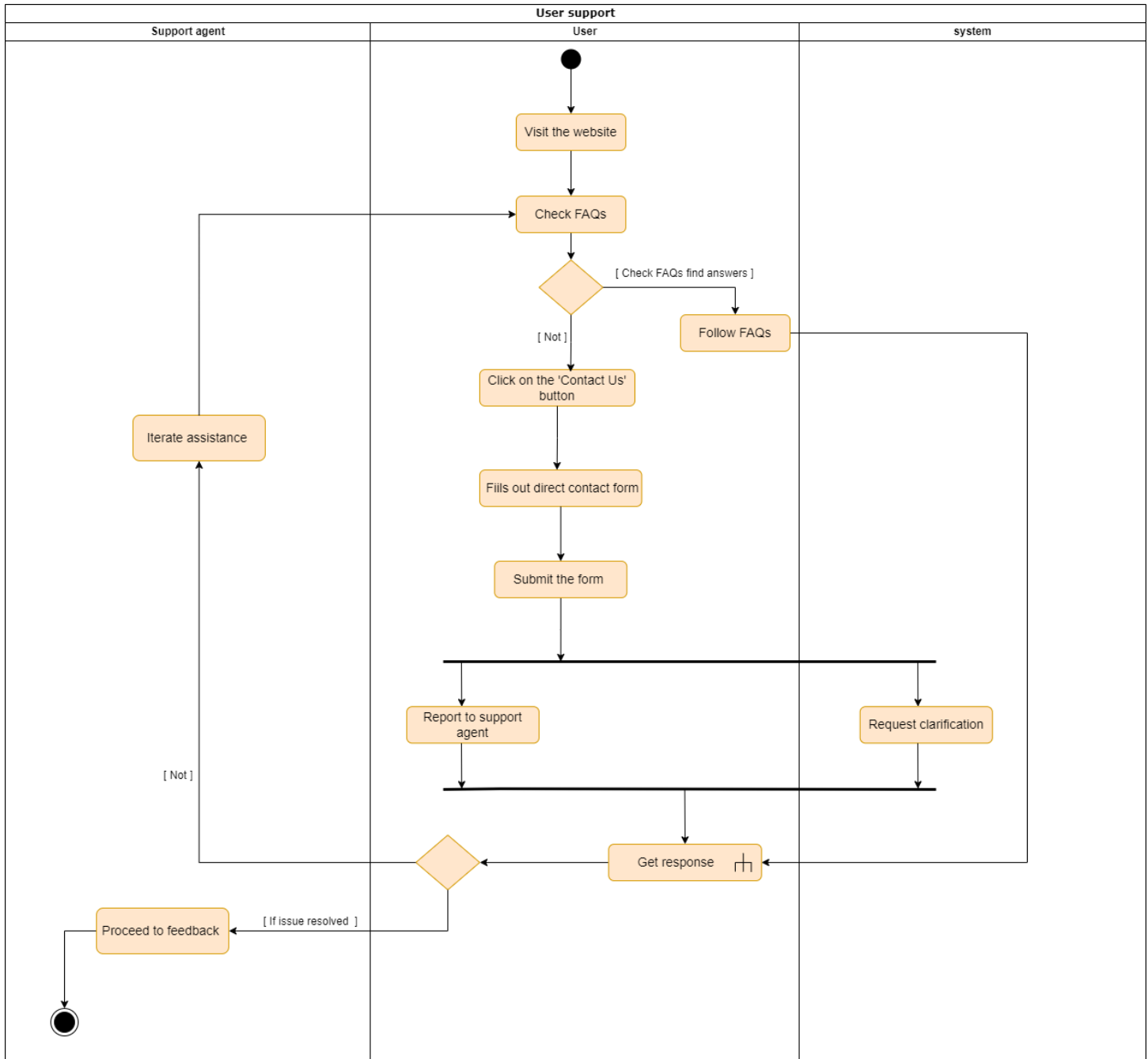
## Part 2 – 1

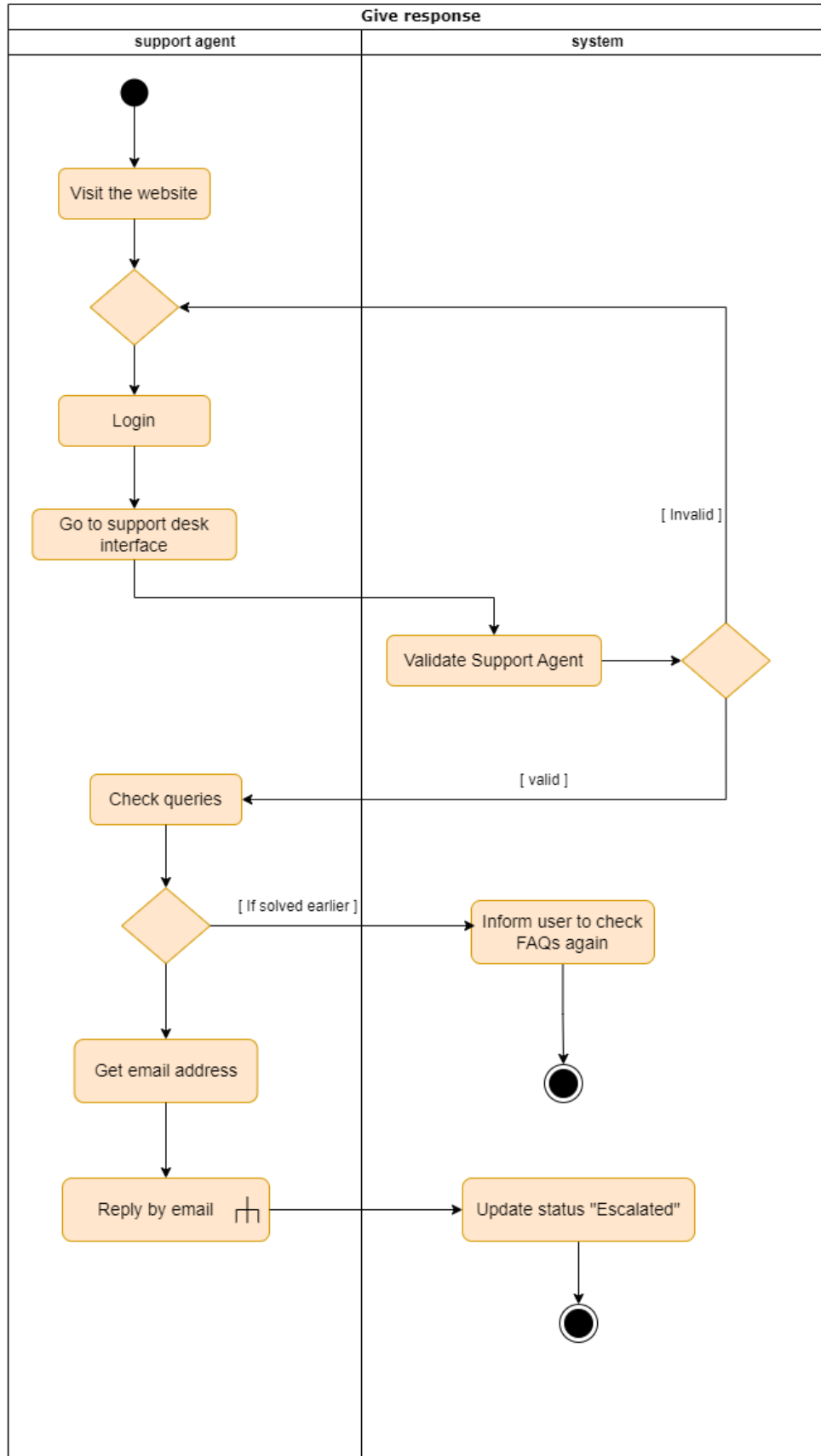


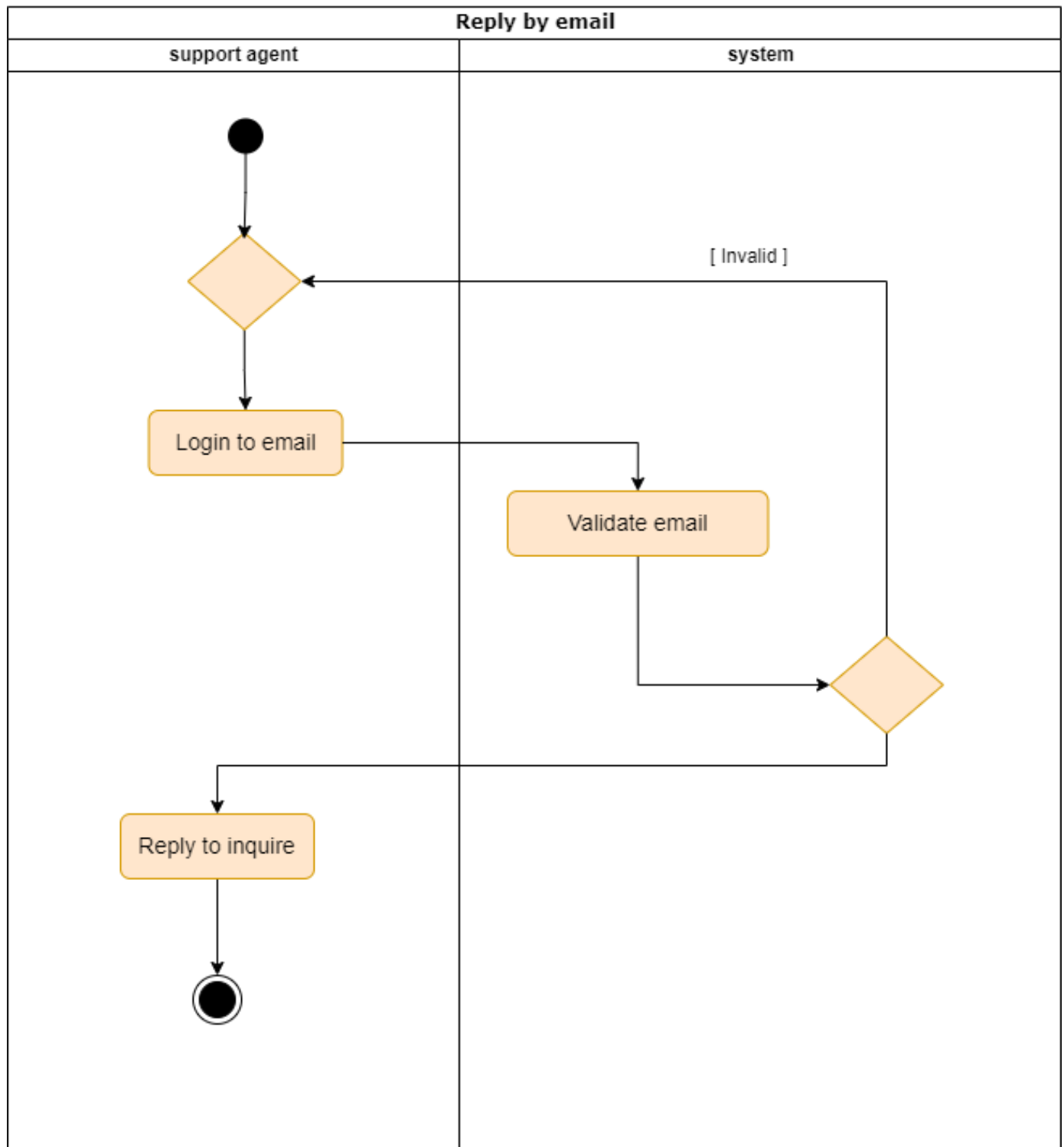
### Subsystems related to Inquire Management Process



## Part 2 – 2







**Assignment 2 Certify Sheet**

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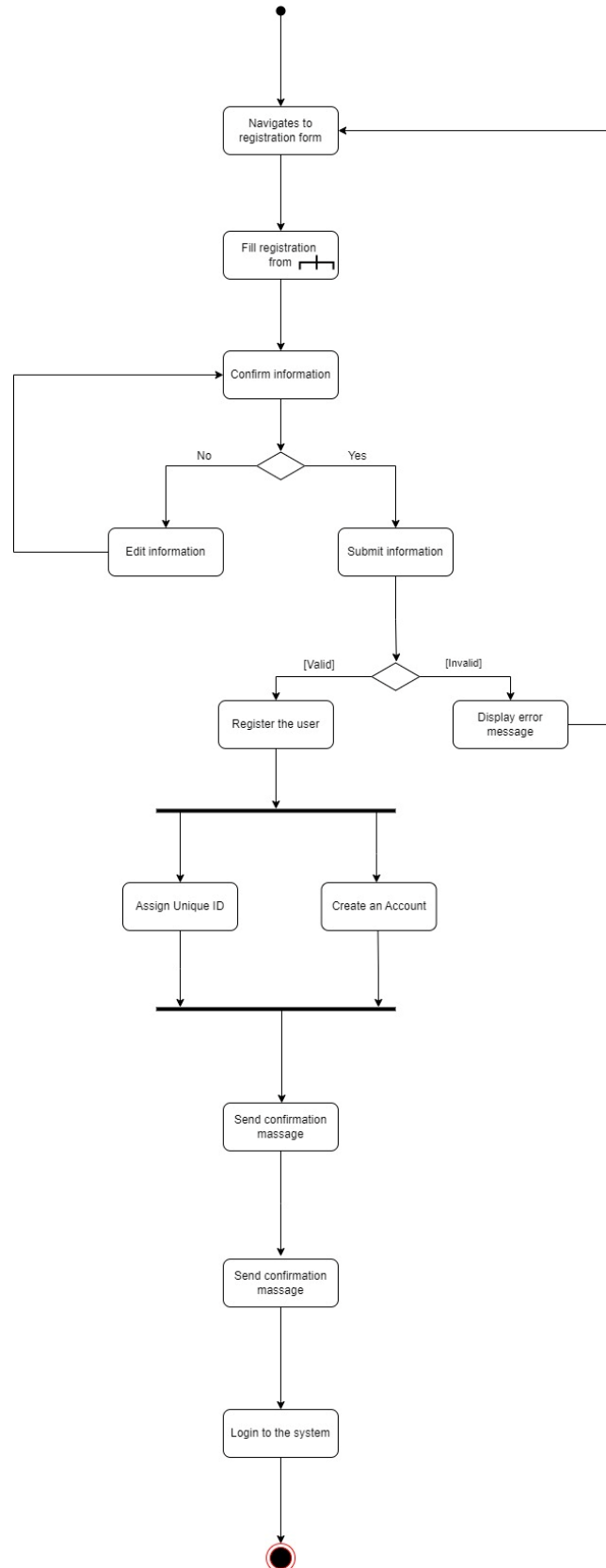
<b>Student Name</b>	<b>Student Registration Number</b>	<b>Date</b>	<b>Signature</b>
I.W.K HASARANGA	IT23228658	27/04/2024	

## Part 1-(1)

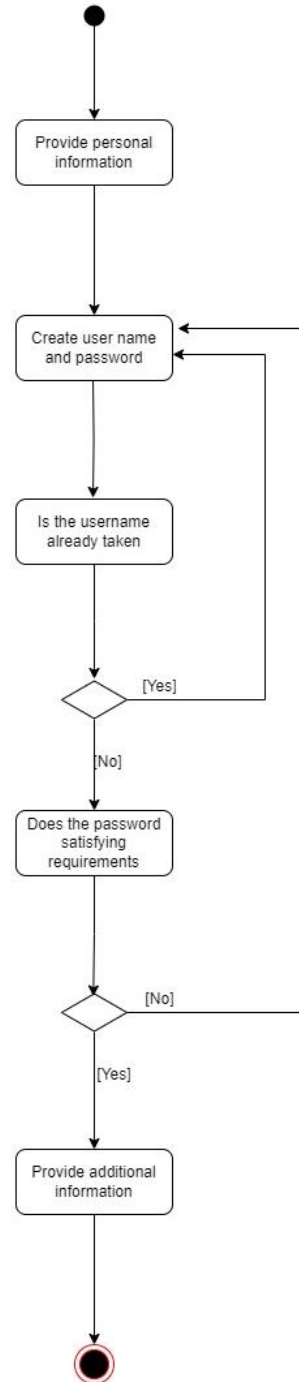
### Use Case Scenario

<b>Number</b>	05	
<b>Name</b>	Register	
<b>Summary</b>	Process of how a user can register to the system	
<b>Priority</b>	01	
<b>Pre-condition</b>	User must visit the website	
<b>Post-condition</b>	The user is successfully registered and can access the system	
<b>Primary actor</b>	Guest user	
<b>Triger</b>	A guest user wants to register to the Recipe Management System.	
<b>Main success scenario</b>	<b>Step</b>	<b>Action</b>
	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
<b>Extensions</b>	<b>Step</b>	<b>Branching Action</b>
	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

## Part 1-(2) Activity Diagram



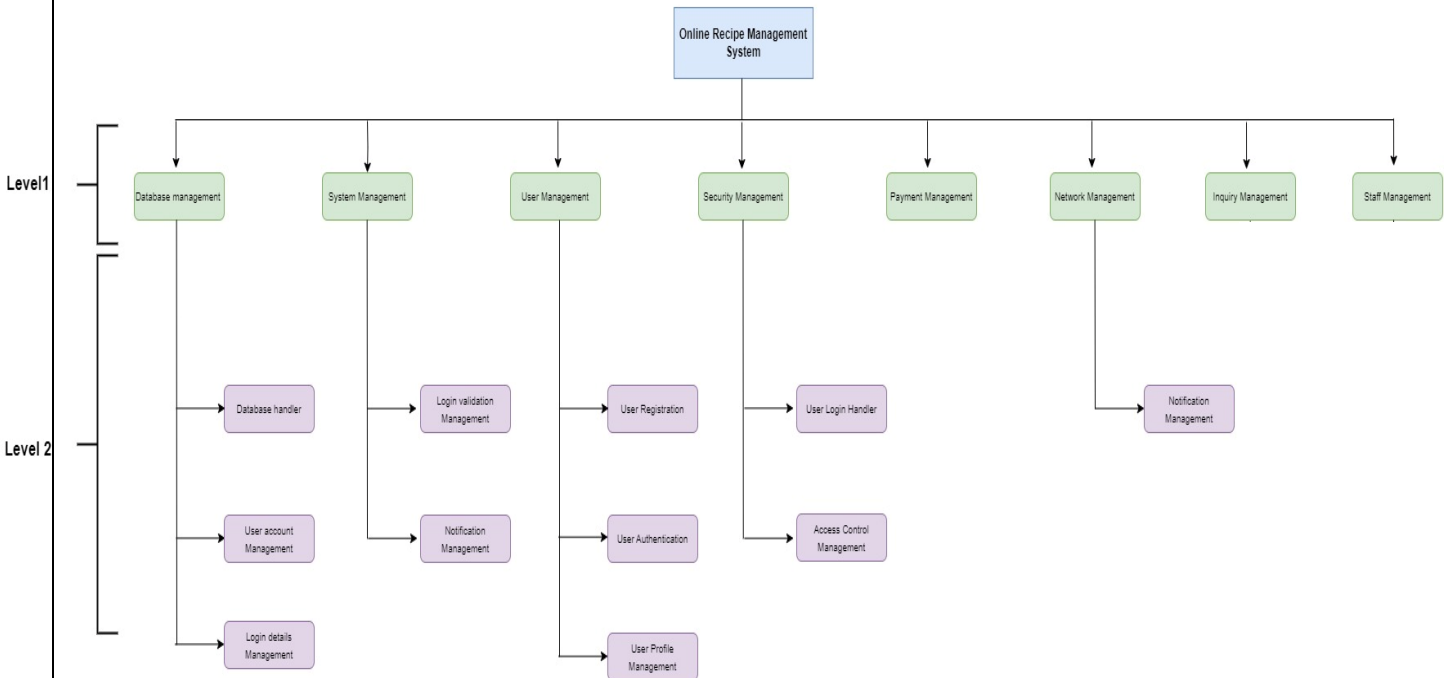
**Call action : Fill registration from**





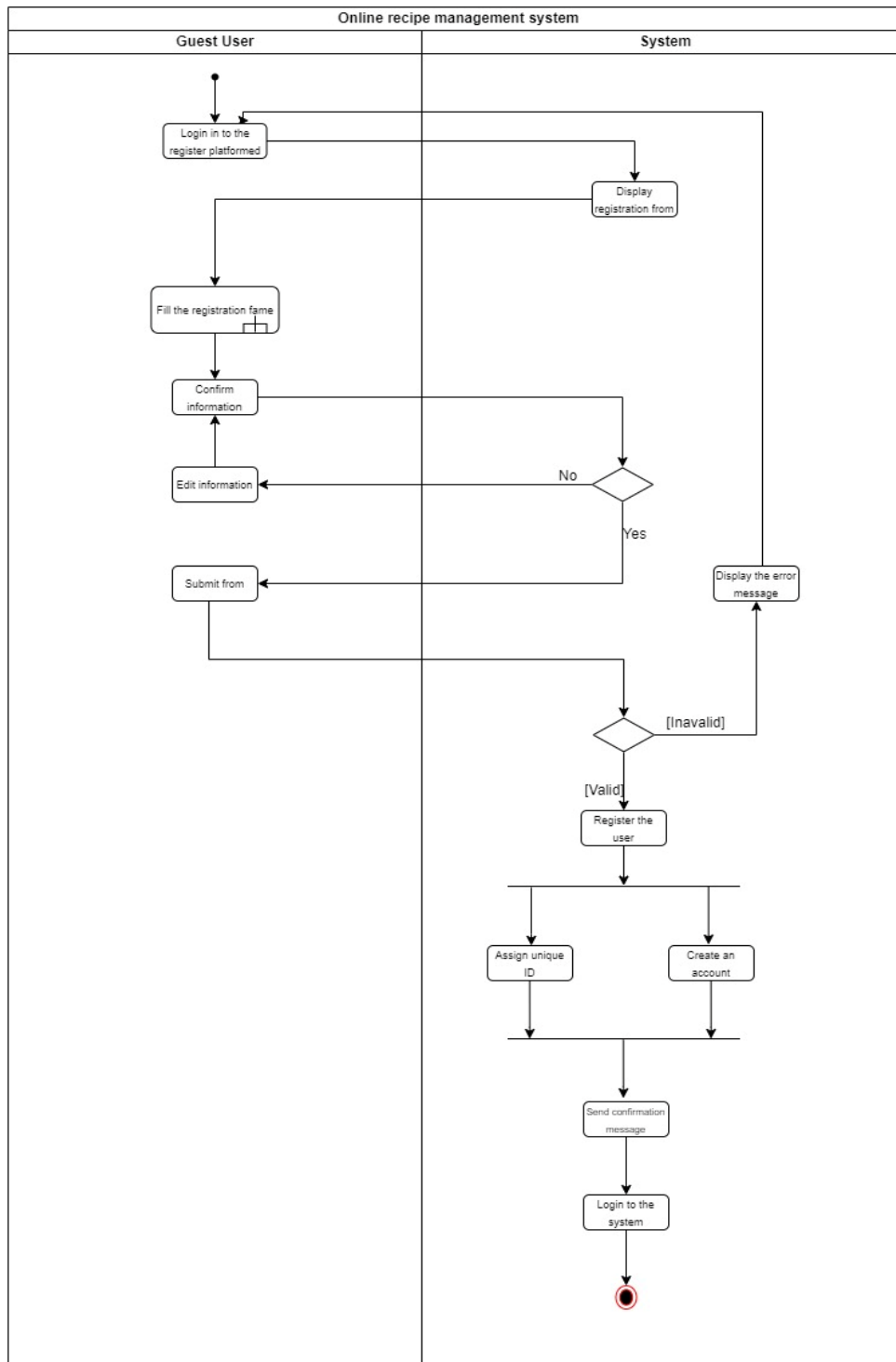
## Part 2-(1)

### Sub systems



## Part 2- (2)

### Activity Diagram with partitioning



# BSc (Hons) in Information Technology

## Assignment 2 - Marking Scheme

IT1060 - Software Process Modeling

2024 -February

PROJECT ID: MLB\_04.02\_03

CASE STUDY NAME: Online Recipe Management System

Part I	Max. Mark	IT23227804	IT23227354	IT23218758	IT23223912	IT23228658
1. Use Case Scenario	5 Marks					
2. Identifying Actions (at least 10)	10 Marks					
3. Use of correct notations	5 Marks					
4. Use of additional features a) Decision and Merge b) Fork and Join c) Iterations d) Call Actions	40 Marks					
Total Marks (Part I)	60 Marks					
Comments						

# BSc (Hons) in Information Technology

## Assignment 2 - Marking Scheme

IT1060 - Software Process Modeling

2024 -February

PROJECT ID: MLB\_04.02\_03

CASE STUDY NAME: Online Recipe Management System

Part II	Max. Mark	IT23227804	IT23227354	IT23218758	IT23223912	IT23228658
1. Identifying sub-systems a. Level 1 b. Level 2 and further	10 Marks 10 Marks					
2. Correct use of Swim Lanes	5 Marks					
3. Partitioning actions into correct Swim Lanes	10 Marks					
4. Creativity	5 Marks					
Total Marks (Part II)	40 Marks					
Total Marks	100 Marks					
Comments						