SLIIT
Discover Your Future

BSc (Hons) in Information Technology

IT1060 – Software Process Modeling **February – 2024**

Assignment 2 Cover Sheet

CASE STUDY NAME	Online Fashion Store
PROJECT ID	24/Y1/S2/MTR-13

Group Details:

	Student Registration Number	Student Name
1	IT23380196	L.K.P. Yasith
2	IT23344556	Jayawickrama W.T. L
3	IT23189676	Withana N. K
4	IT23215306	R.V.P.P. Nimsara
5	IT23442498	Vidanapathirana L. S

Assignment 2 Certify Sheet

I hereby certify,

- [x] The attached is my own work and no further changes will be made.
- [x] I have contributed in this assignment to the best of my ability.

And I understand,

- [x] I may be subject to student discipline processes in the event of an act of academic misconduct by me including an act of plagiarism or cheating.

Student Details:

	Student Name	Student Registration Number	Date	Signature
1	L.K.P. Yasith	IT23380196	22/03/2024	
2	Jayawickrama W.T. L	IT23344556	22/03/2024	
3	Withana N. K	IT23189676	22/03/2024	
4	R.V.P.P. Nimsara	IT23215306	22/03/2024	
5	Vidanapathirana L. S	IT23442498	22/03/2024	

Introduction

Our online retail emporium offers a unique blend of technology and commerce, transforming the traditional shopping experience. With an extensive selection of products, including fashion, we partner with reputable brands and suppliers to provide high-quality merchandise. Our commitment to quality assurance is evident in every aspect of the shopping experience, from product selection to delivery.

Our team of professionals is dedicated to customer satisfaction, offering personalized assistance and prompt resolution of concerns. We strive to create a seamless shopping journey for every visitor. Our intuitive interface, optimized for various devices and platforms, allows for easy exploration and navigation.

Our commitment to innovation and adaptation is unwavering, as we continuously iterate and refine our offerings to stay ahead of industry trends. As a pioneer in digital retail, we are poised to shape the future of online shopping, pioneering innovative approaches that redefine convenience, accessibility, and consumer empowerment.

Our online shopping store serves as a testament to the transformative potential of technology-driven commerce, offering a superior amalgamation of choice, quality, and customer-centricity. We invite you to a realm where consumer satisfaction transcends boundaries, and the possibilities of digital commerce are boundless.

Use Case Scenario

Member 1:IT23380196 (Group Leader)

Section 1: New users can create account

Challenge: As first time drawing use case correctly is bit difficult.

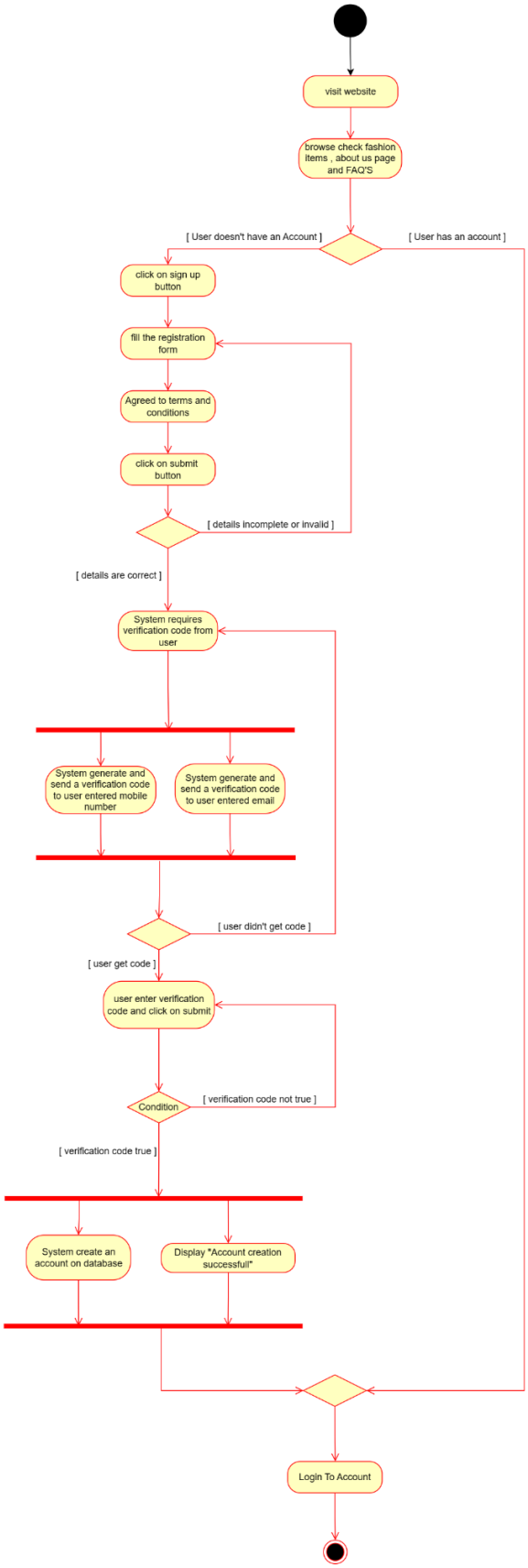
Identifying include and extend relationship.

Individual Contribution:

- Worked on the actor – New User.
- Generalized the use case for actor new User.
- Create use case scenarios for,
  - Account creation.

Number	01
Name	Account Creation.
Summary	New user creates a user account
Priority	04
Pre-condition	• Need to have an e-mail account which is not pre registered. • Need to have a contact number.
Post condition	• Agree to terms and conditions. • Verify the e-mail address
Primary actor	New User

Tigger	New user goes to the website	
Main scenario	**Step**	**Action**
	1	New user click on sign up button.
	2	System display the registration form and require details from user.
	3	New user fill the registration form.
	4	New user agree to the terms and conditions.
	5	New user submit form by clicking submit button.
	6	System sent verification code to the mail that user entered
	7	System display and require the verification code from new user.
	8	New user enter the verification code and submit.
	9	System display that account creation is successful message.
Extension	5 (a)	If details are incomplete or incorrect, System notify to complete with correct details.
	5(b)	If user entered pre-registered email , Suggest to enter valid email or to sign in.
	8 (a)	If email verification unsuccessful, System display account creation unsuccessful.
	8(b)	Suggest to new user to verify account using different method.
Open issues	System ask if the guest wants to see the customer's feedbacks on website	



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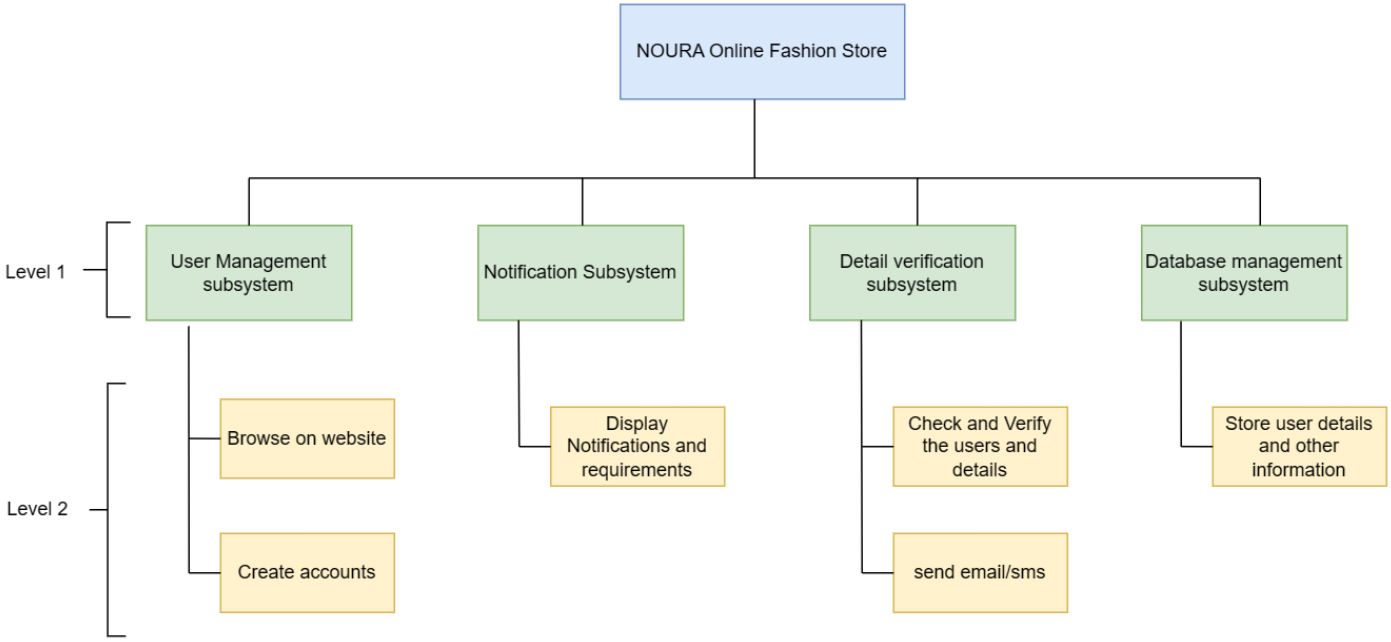
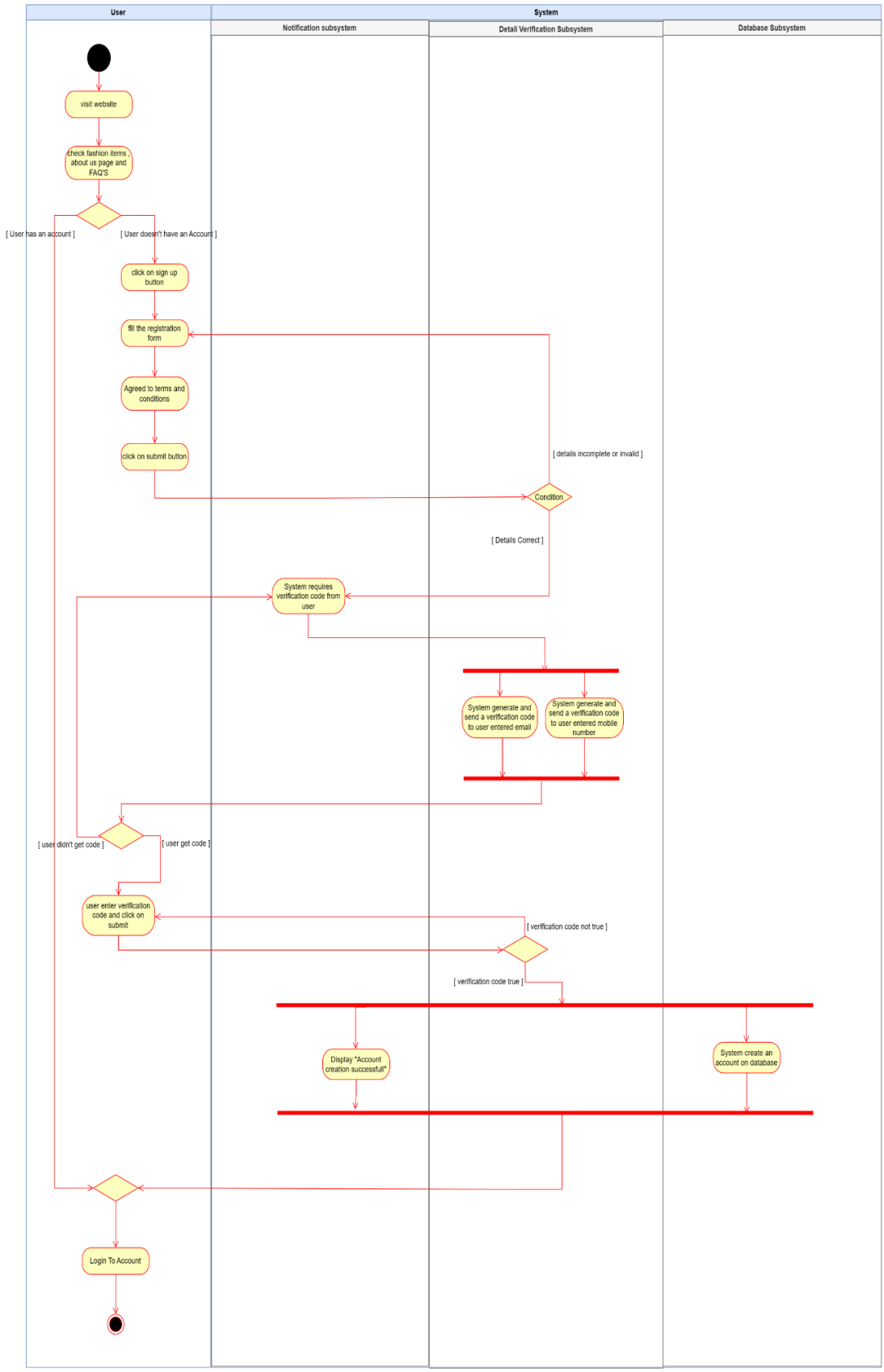

NOURA Online Fashion Store
Level 1
User Management subsystem
Notification Subsystem
Detail verification subsystem
Database management subsystem
Level 2
Browse on website
Create accounts
Display Notifications and requirements
Check and Verify the users and details
send email/sms
Store user details and other information



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Use Case Scenario

Member 2: IT23189676 (Withana N K)

Individual Contribution:

- Worked on the actor – Register User.
- Generalized the use case for actor Register User.
- Create use case scenarios for,
    - Buy items.

Section: Register users can login to the user accounts, search and buy an item.

Challenge: Identifying the user credentials.

Identifying include and extend relationship.

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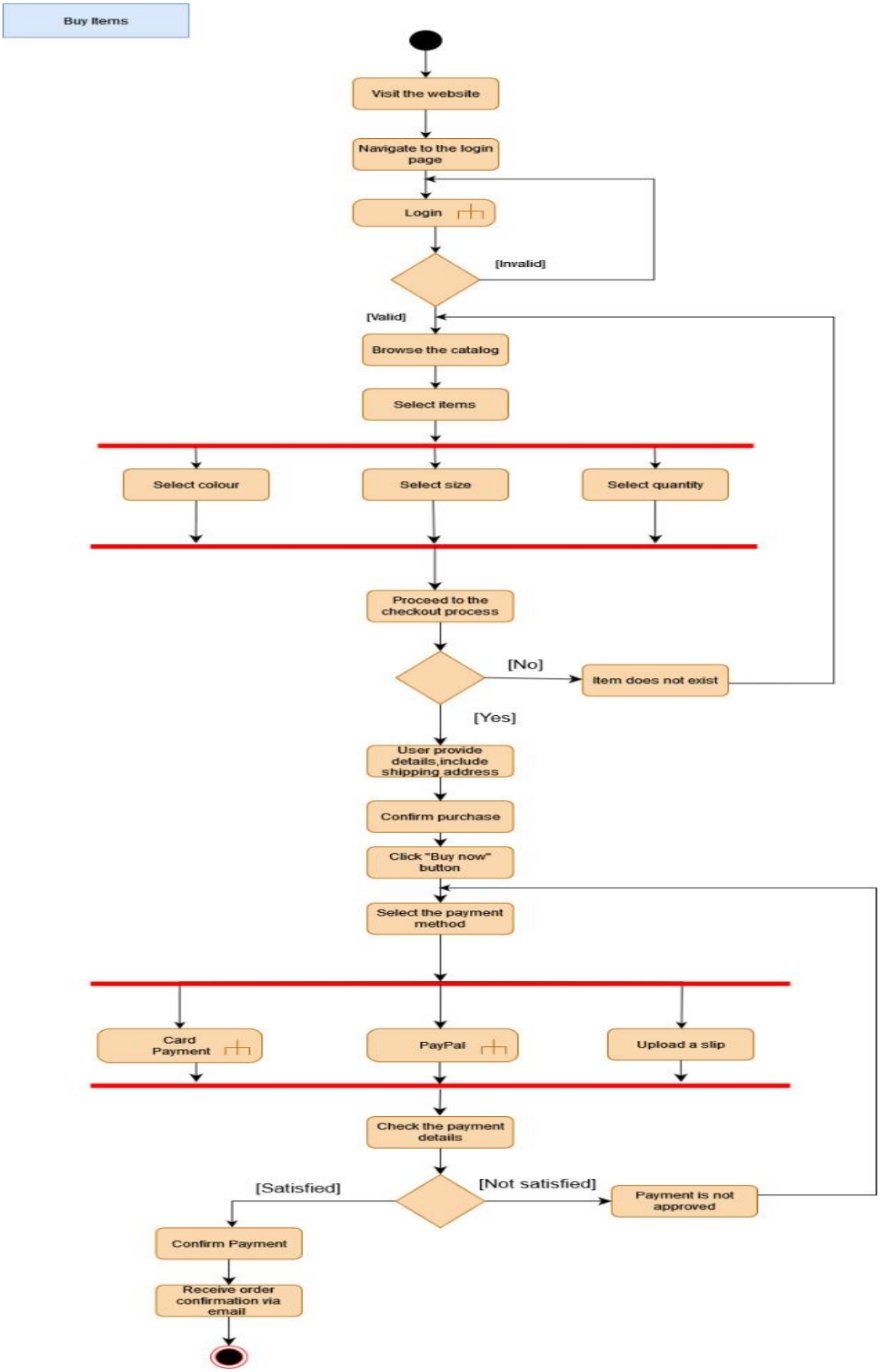
Number	03	
Name	Buy items	
Summary	Register User buy an item	
Priority	03	
Pre-condition	Register User has already browsed and searched items they wish to purchase.	
Post condition	The selected items are successfully purchased. Register User received confirmation of purchase.	
Primary actor	Register User	
Tigger	Register User log into the system and buy an items.	
Main scenario	**Step**	**Action**

	1	User browses the catalog and selects items they want to purchase.
	2	User proceeds to checkout process.
	3	User verifies shipping address and payment details.
	4	User confirms the purchase and complete the transaction by clicking the “Buy Now” button.
	5	The system processes the payment using the provided payment methods.
	6	Successful payment processing, the system updates the order status to “Confirmed” and generates order confirmation.
	7	The user receives and order confirmation via email.
Extension	1 (a)	The system will display an error message if the user can’t login to the system.
	2 (a)	If the any selected items become out of stock during the checkout process, the system will notify the user.
	5 (a)	If the payment method is card payment, (visa/ master) system will encrypt and stores card details.
	5 (b)	If the payment method is PayPal, system will retrieve user’s account. Details.
	5 (c)	If the payment method is uploading slip, system will provide guidance on acceptable file formats details.
	6 (a)	If the payment transaction fails, the system will notify the user of the payment failure.
	7(a)	After completing the purchase, the user may have the option to track the status of their order.
Open issues	Should the system ask feedback from the customer	



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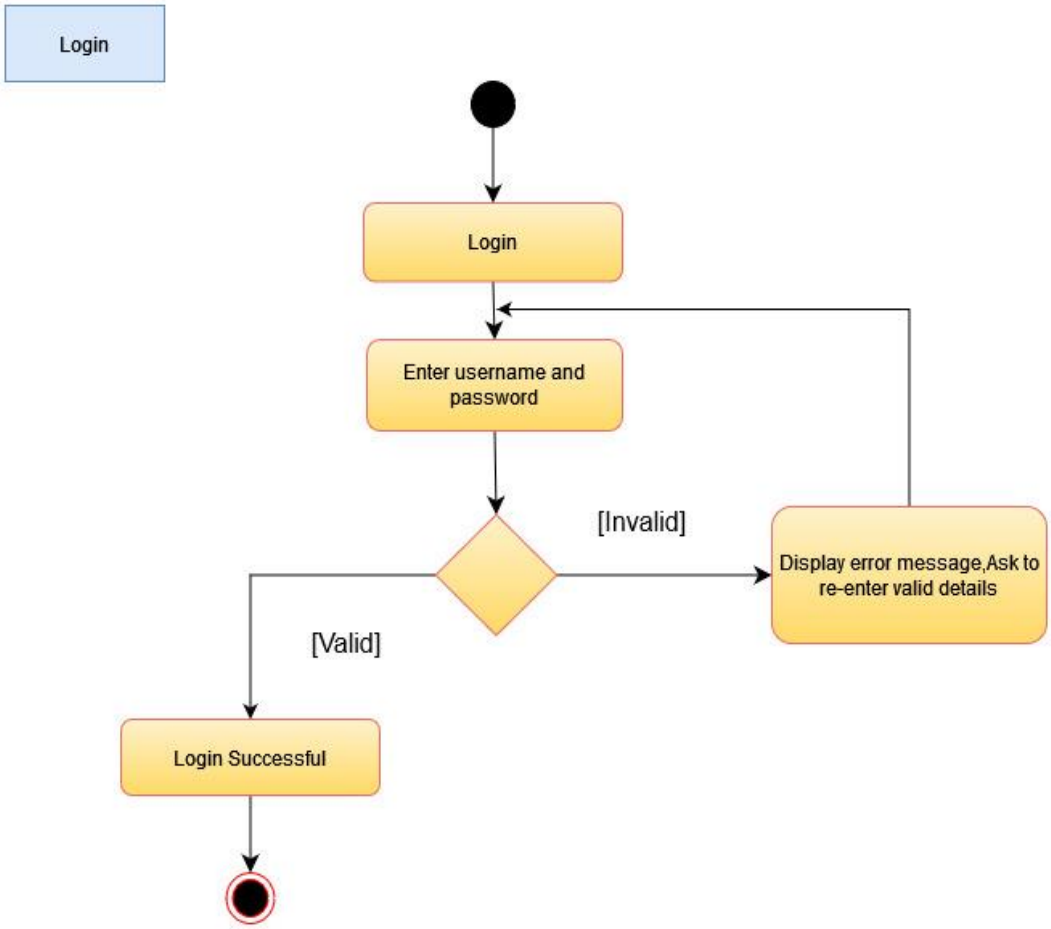

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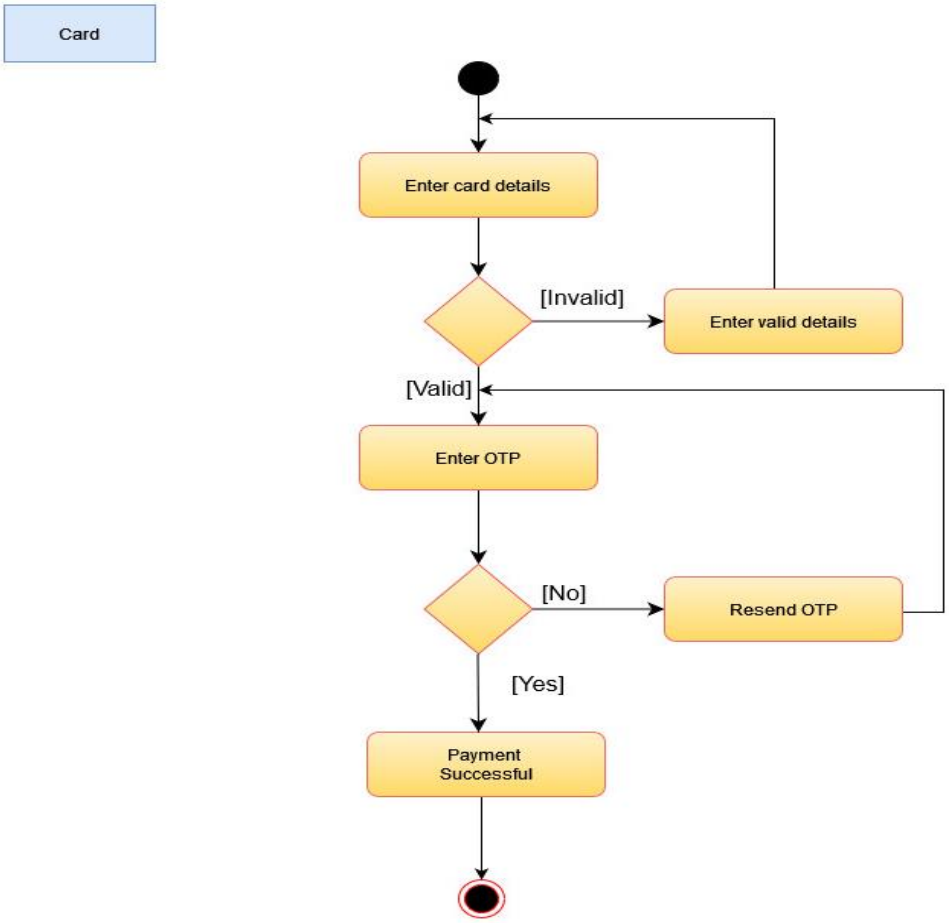

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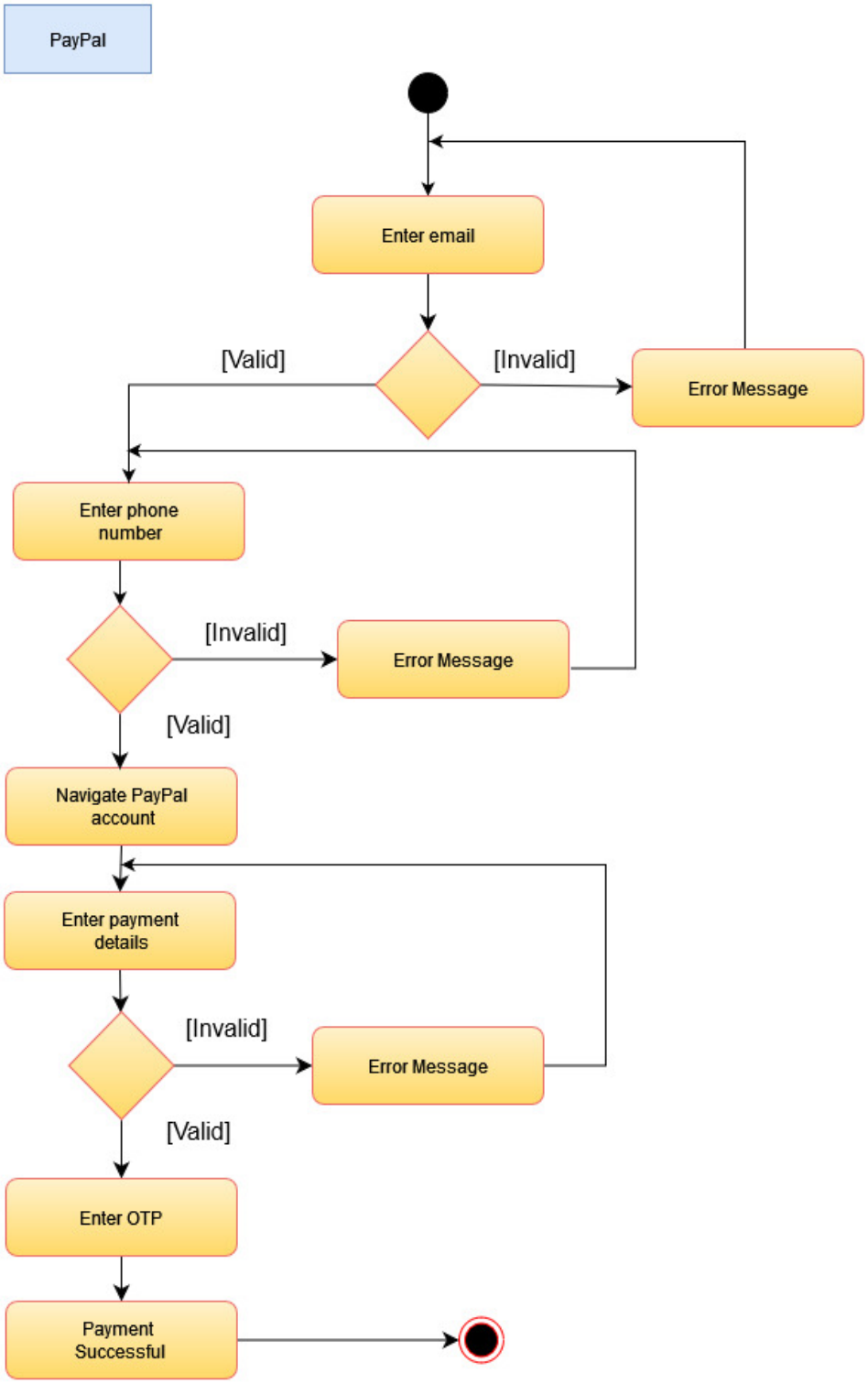
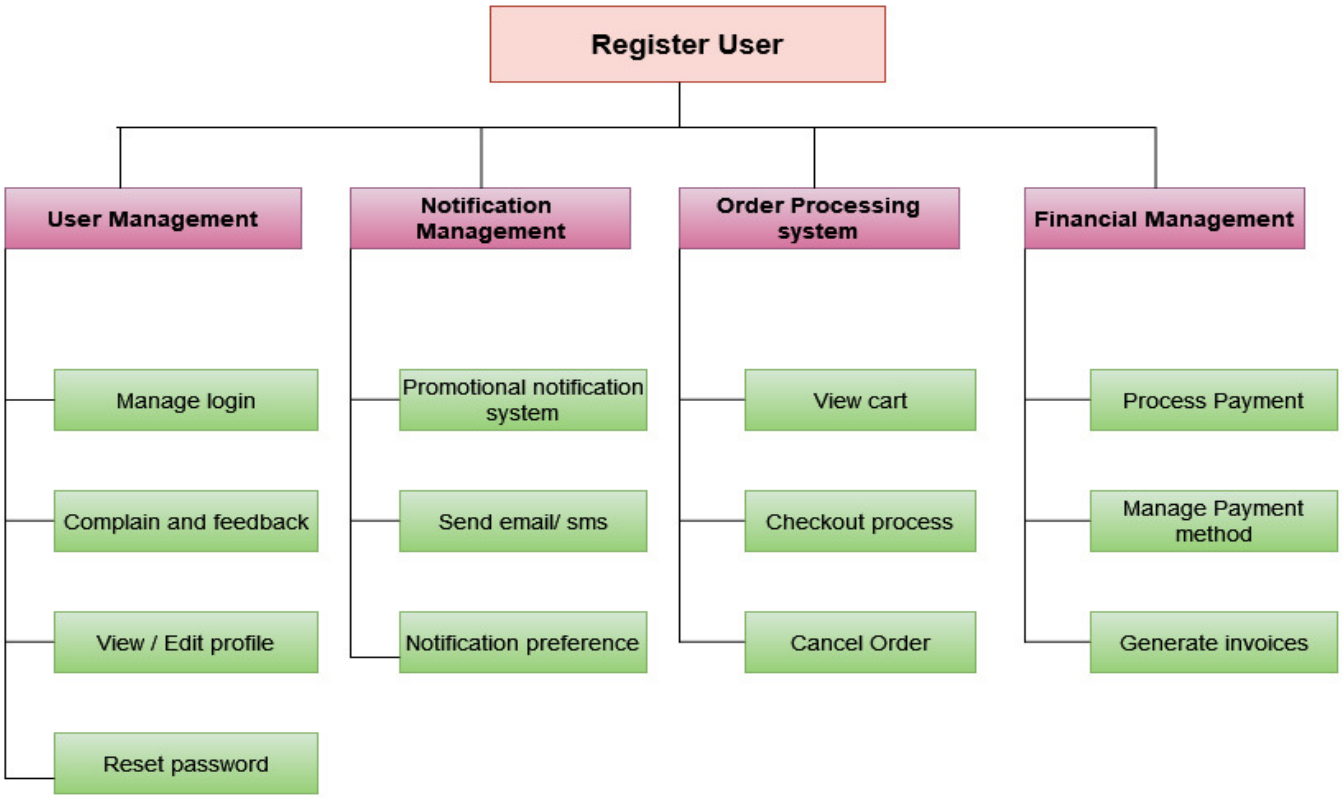
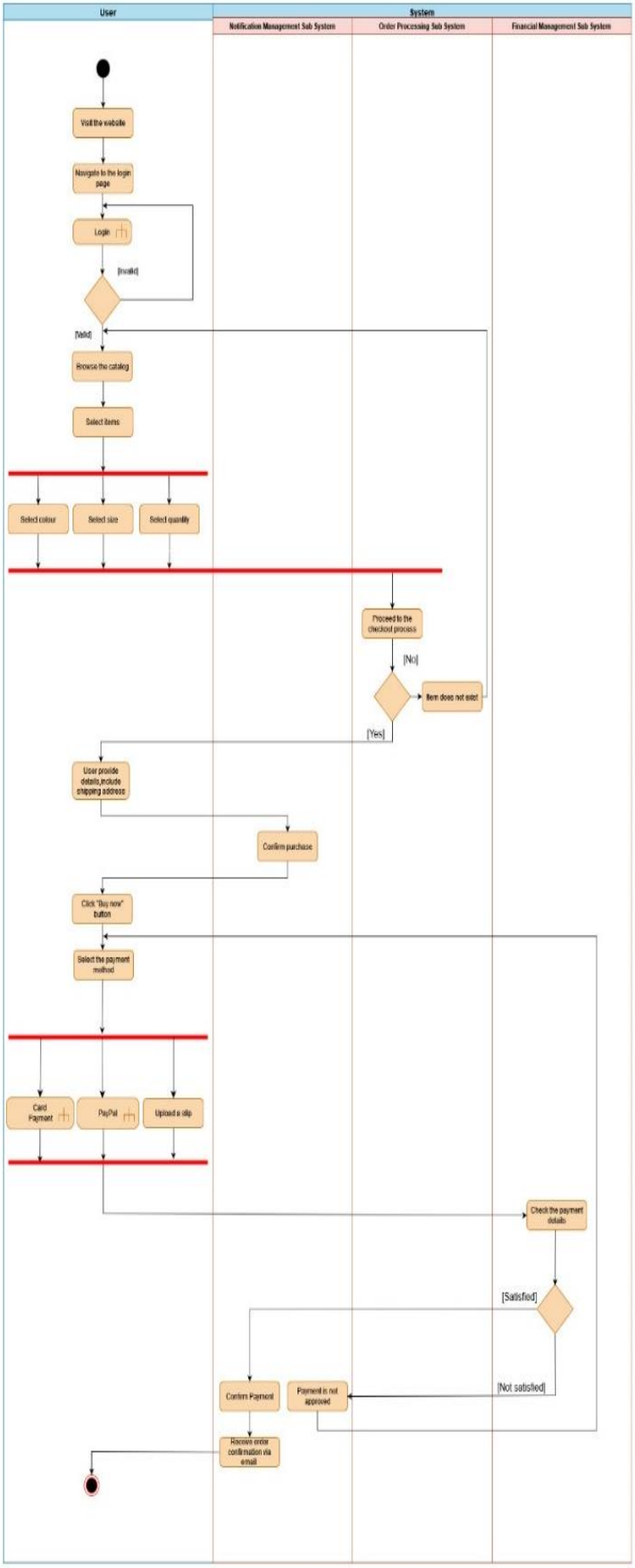

PayPal
Enter email
[Valid]
[Invalid]
Error Message
Enter phone number
[Invalid]
Error Message
[Valid]
Navigate PayPal account
Enter payment details
[Invalid]
Error Message
[Valid]
Enter OTP
Payment Successful


Register User
User Management
Notification Management
Order Processing system
Financial Management
Manage login
Complain and feedback
View / Edit profile
Reset password
Promotional notification system
Send email/ sms
Notification preference
View cart
Checkout process
Cancel Order
Process Payment
Manage Payment method
Generate invoices


User
System
Notification Management Sub System
Order Processing Sub System
Financial Management Sub System
Visit the website
Navigate to the login page
Login
[Invalid]
[Valid]
Browse the catalog
Select items
Select colour
Select size
Select quantity
Proceed to the checkout process
[No]
Item does not exist
[Yes]
User provide details include shipping address
Confirm purchase
Click "Buy now" button
Select the payment method
Card Payment
PayPal
Upload a slip
Check the payment details
[Satisfied]
[Not satisfied]
Confirm Payment
Payment is not approved
Receive order confirmation via email

Link –

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Use Case Scenario

Member 3: IT 23344556 (Jayawickrama W T L)

Individual Contribution:

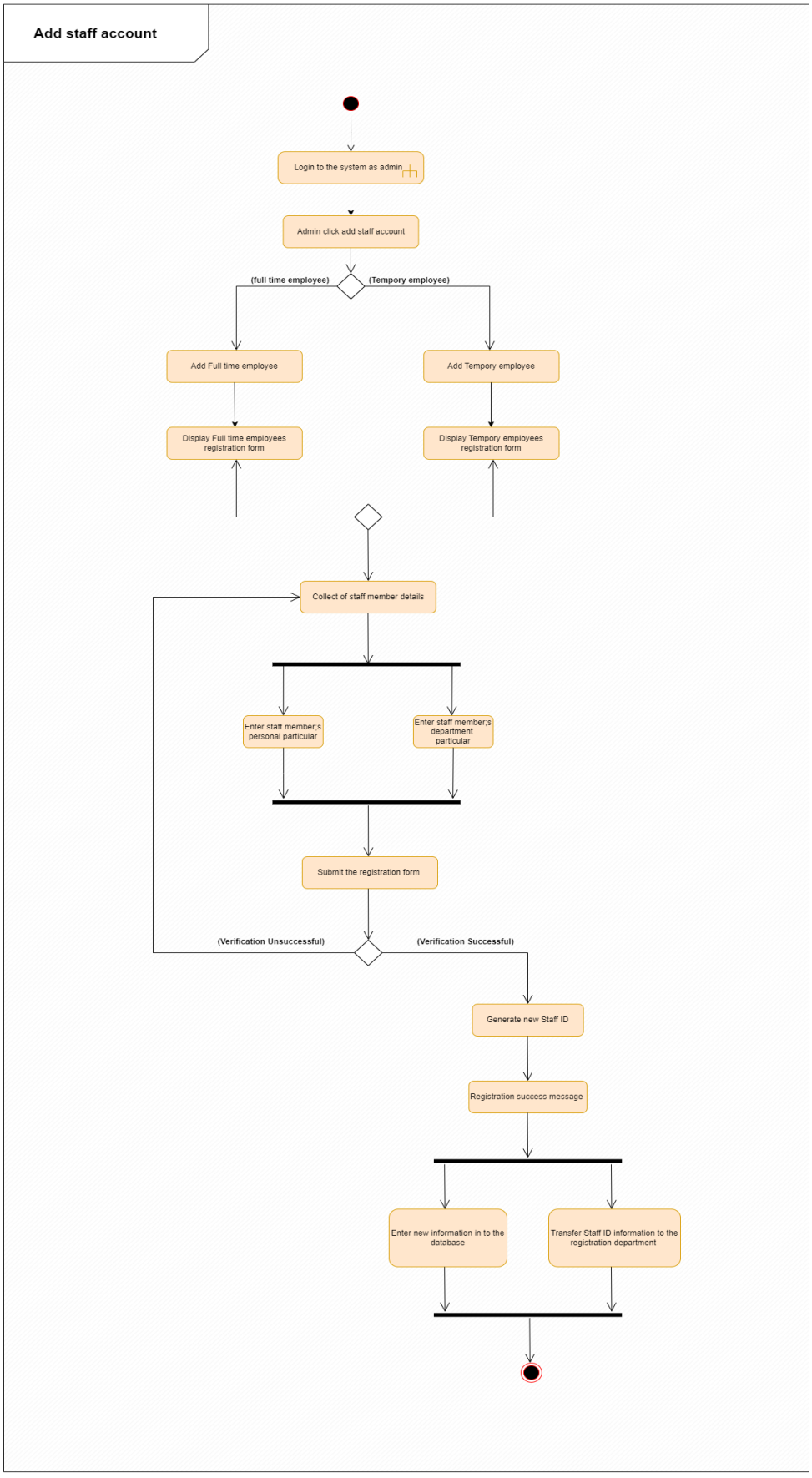
- Worked on the actor – System Administrator
- Generalized the use case for actor system administrator.
- Create use case scenarios for,
    - Add Staff Account.

Section: To add staff members, create new user accounts, configure security settings, and manage their access privileges within the system effectively.

Challenge: The intricate process of identifying and analysing the relationship between new staff members and their specific use cases can be challenging.

Number	05	
Name	Add staff account	
Summary	The administrator will create a new account for the staff.	
Priority	01	
Pre-condition	The administrator has logged into the system dashboard.	
Post condition	The administrator has the ability to add or update a specific account.	
Primary actor	System Administrator	
Tigger	The administrator selects the “add staff account” button.	
Main scenario	**Step**	**Action**

	1	The administrator clicks on the add staff button.
	2	The administrator will provide the necessary information and create a staff ID for the individual.
	3	The administrator has successfully registered.
	4	The system will display a message indicating that a new user has successfully registered onto the staff.
Extension	3 (a)	The system will display an error message if any errors occur during the validation process.
	4 (a)	The system will display "Registration Unsuccessful" if there is a duplication of the entered staff ID with the existing staff ID.
Open issues	The system should notify the individual that they have been registered as a staff member.	


Add staff account
Login to the system as admin
Admin click add staff account
(full time employee)
(Tempory employee)
Add Full time employee
Add Tempory employee
Display Full time employees registration form
Display Tempory employees registration form
Collect of staff member details
Enter staff member;s personal particular
Enter staff member;s department particular
Submit the registration form
(Verification Unsuccessful)
(Verification Successful)
Generate new Staff ID
Registration success message
Enter new information in to the database
Transfer Staff ID information to the registration department

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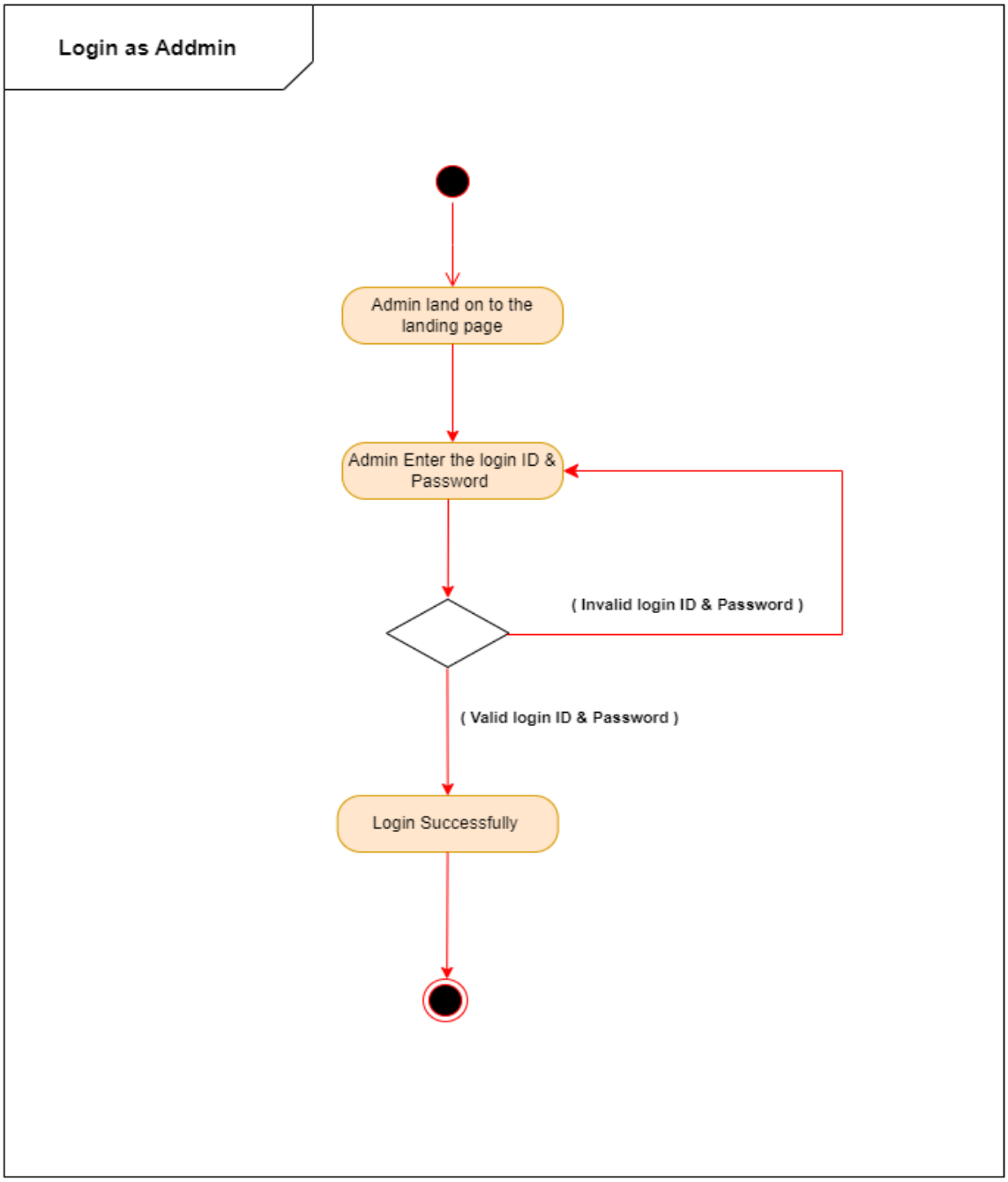

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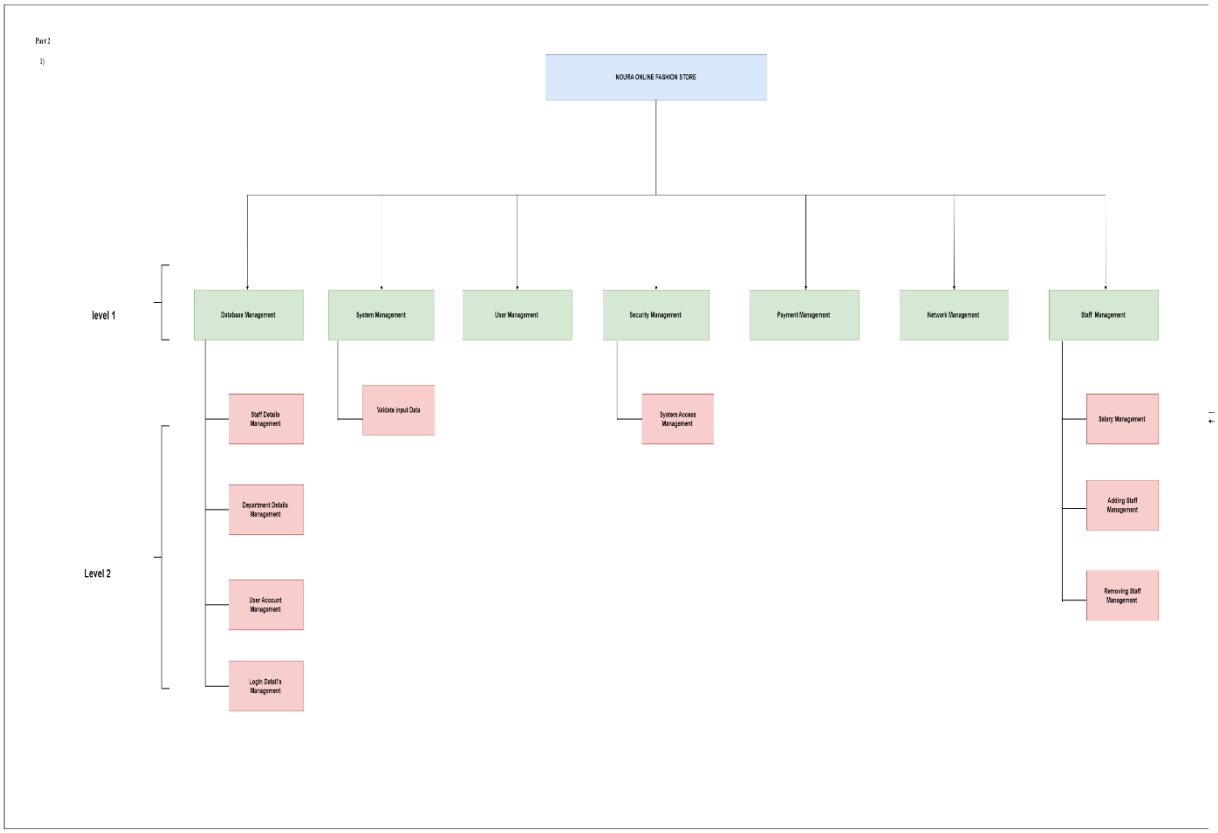
Part 1)



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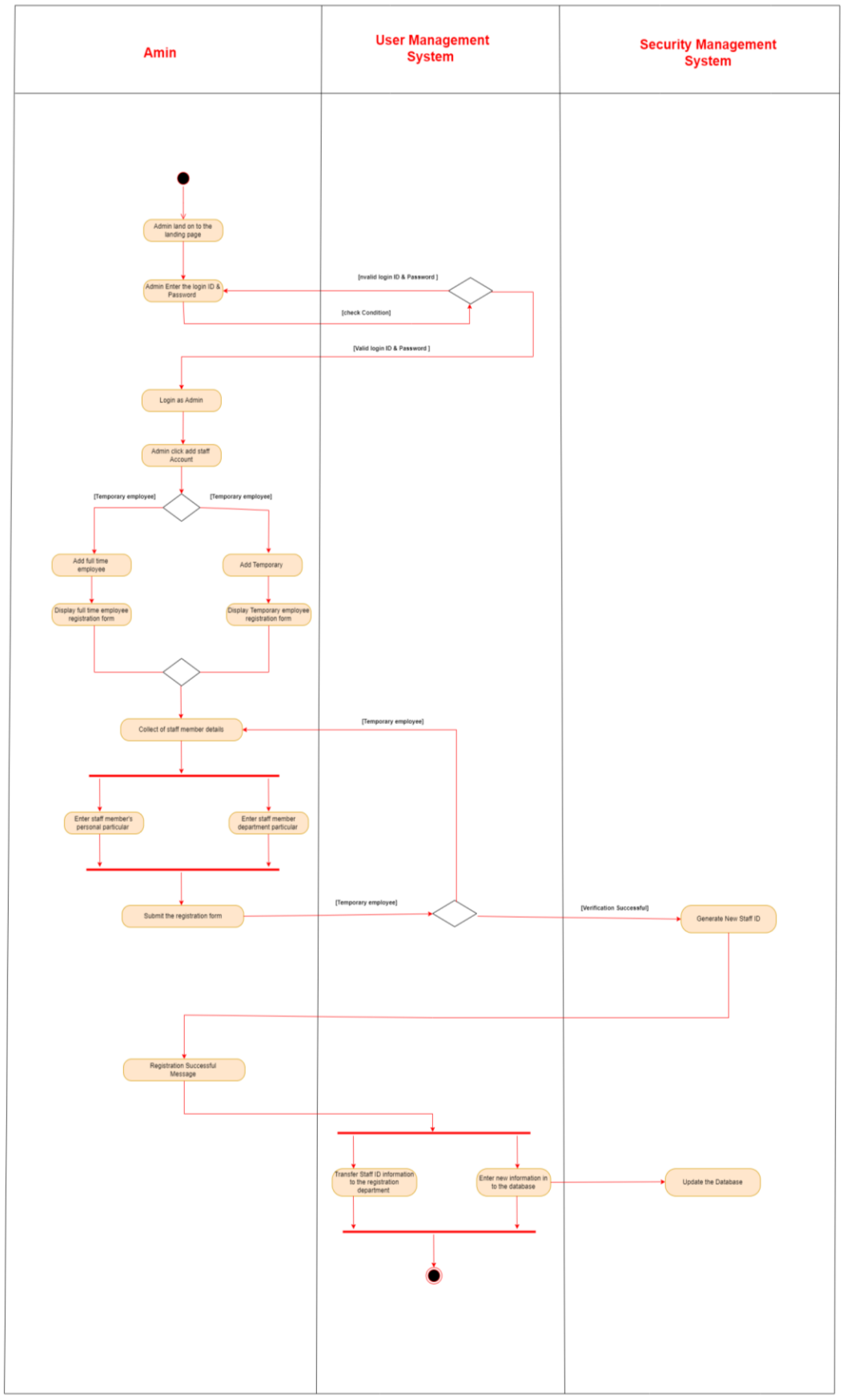

Amin
User Management System
Security Management System
Admin land on to the landing page
Admin Enter the login ID & Password
[invalid login ID & Password]
[check Condition]
[Valid login ID & Password]
Login as Admin
Admin click add staff Account
[Temporary employee]
[Temporary employee]
Add full time employee
Add Temporary
Display full time employee registration form
Display Temporary employee registration form
Collect of staff member details
[Temporary employee]
Enter staff member's personal particular
Enter staff member department particular
Submit the registration form
[Temporary employee]
[Verification Successful]
Generate New Staff ID
Registration Successful Message
Transfer Staff ID information to the registration department
Enter new information in to the database
Update the Database

Link –
https://drive.google.com/file/d/1fKPE7-i4J82XQnnOTOJYPHcvenirMxo1/view?usp=sharing

Use Case Scenario

Member 4: IT23215306 (R.V.P.P. Nimsara)

Individual Contribution:

- Worked on the actor – Bank.
- Generalized the use case for actor bank.
- Create use case scenario for,
    - Authorized or decline the payment.
    - Generate Financial Report.

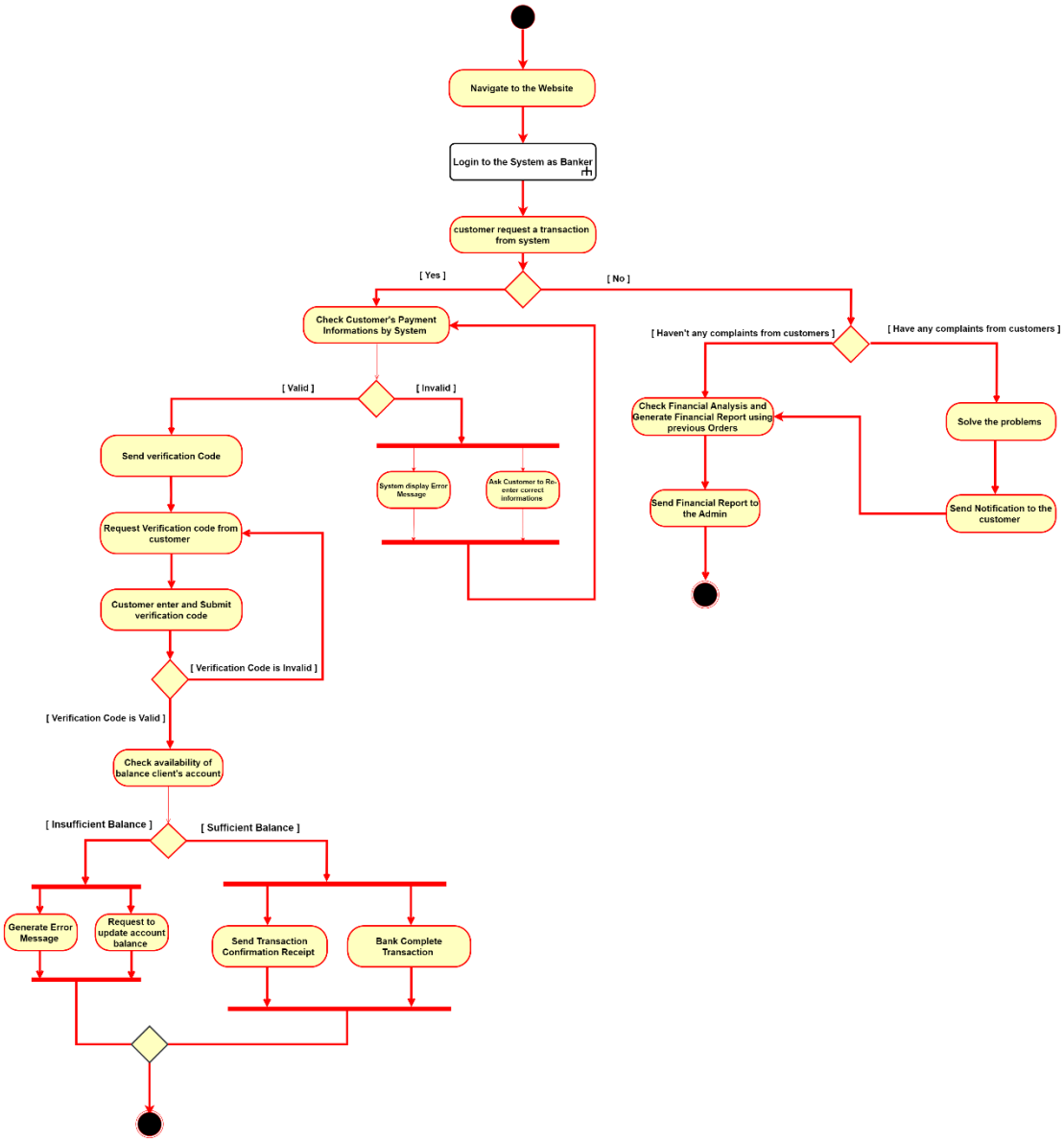
Section: The task involves managing the payment process.

Challenge: The process of comprehending and identifying the connections between actors and the use cases can be a complex task.

Number	06	
Name	Validate the payment and Generate Financial Report.	
Summary	Receipt and allocation of monetary resources.	
Priority	05	
Pre-condition	• The consumer has chosen a selection of items. • The client has opted for bank transfer as the method of payment.	
Post- condition	The administrator has the power to add or modify a new account.	
Primary actor	Bank	
Tigger	Authorized or declined the payment.	
Main scenario	**step**	**Action**
	1.	Visit the website.

	2.	Login to the system as Banker with login ID and password.
	3.	Check customer's payment information by system.
	4.	Send verification code to customer.
	5.	Request verification code from customer.
	6.	Check availability of balance of customer's account.
	7.	Send transaction confirmation and complete transaction.
	8.	Check financial analysis and generate financial report using previous orders.
	9.	Send financial report to the Admin.
Extension	**Step**	**Branching Action**
	2(a)	System notifies guest that entered User ID or password invalid.
	3(a)	Notifies that customer's payment information invalid.
	3(b)	System display error message to re-enter correct information again.
	5(a)	Notifies that customer entered verification code invalid.
	6(a)	System notify that customer's bank account balance insufficient.
	6(b)	Generate error message.
	6(c)	Request to update account balance.
Open issues	The system inquires whether the customer desires to receive an email confirmation.	

Handle the financial Process



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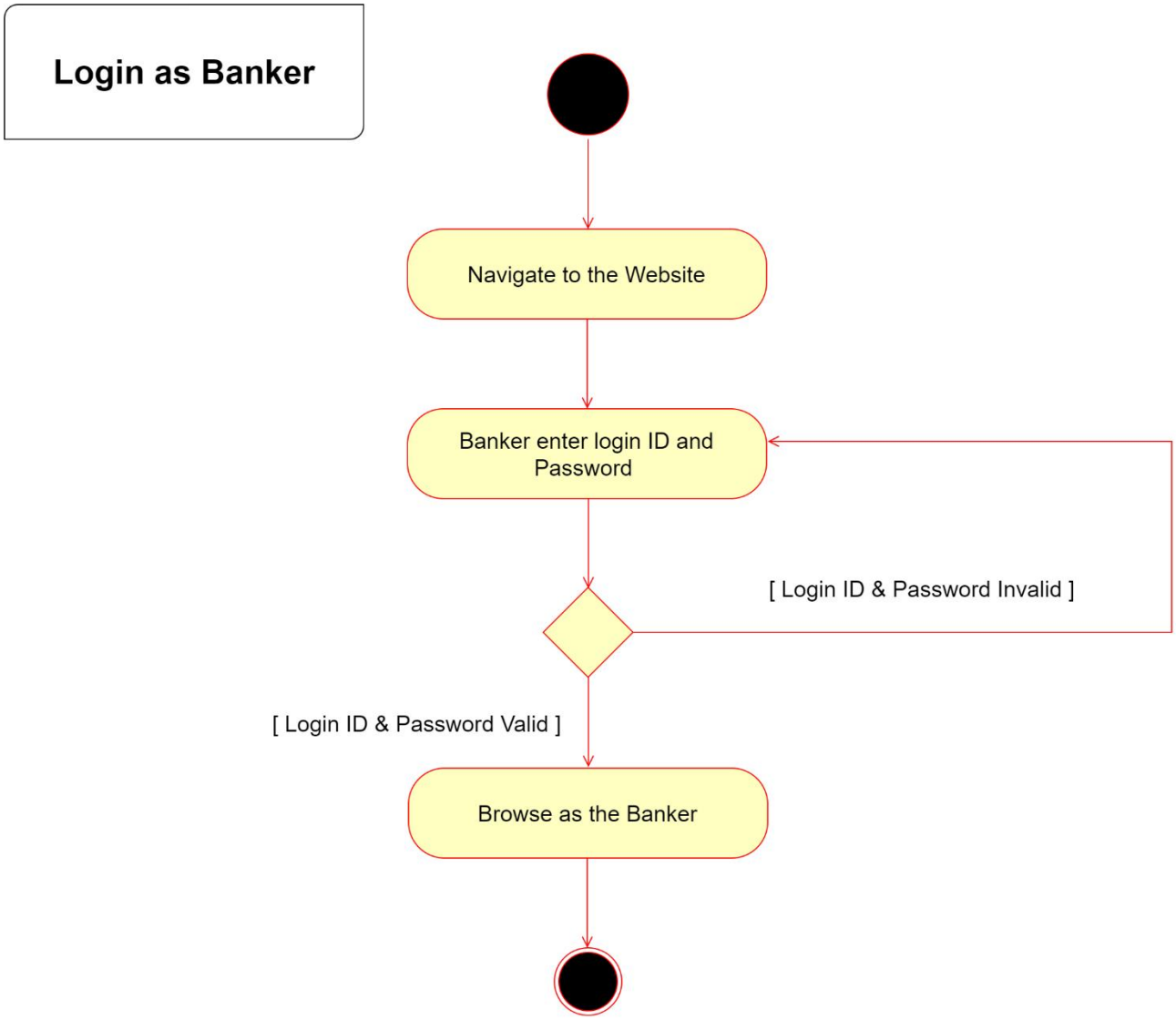
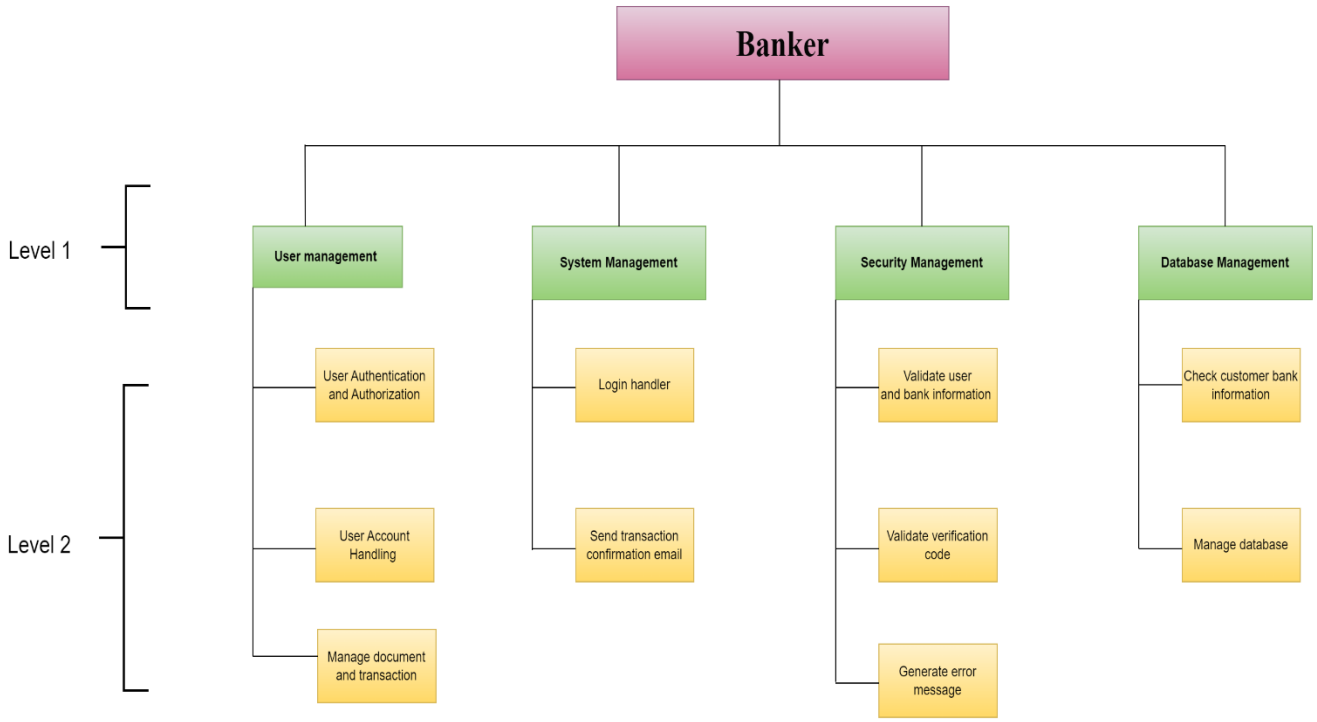
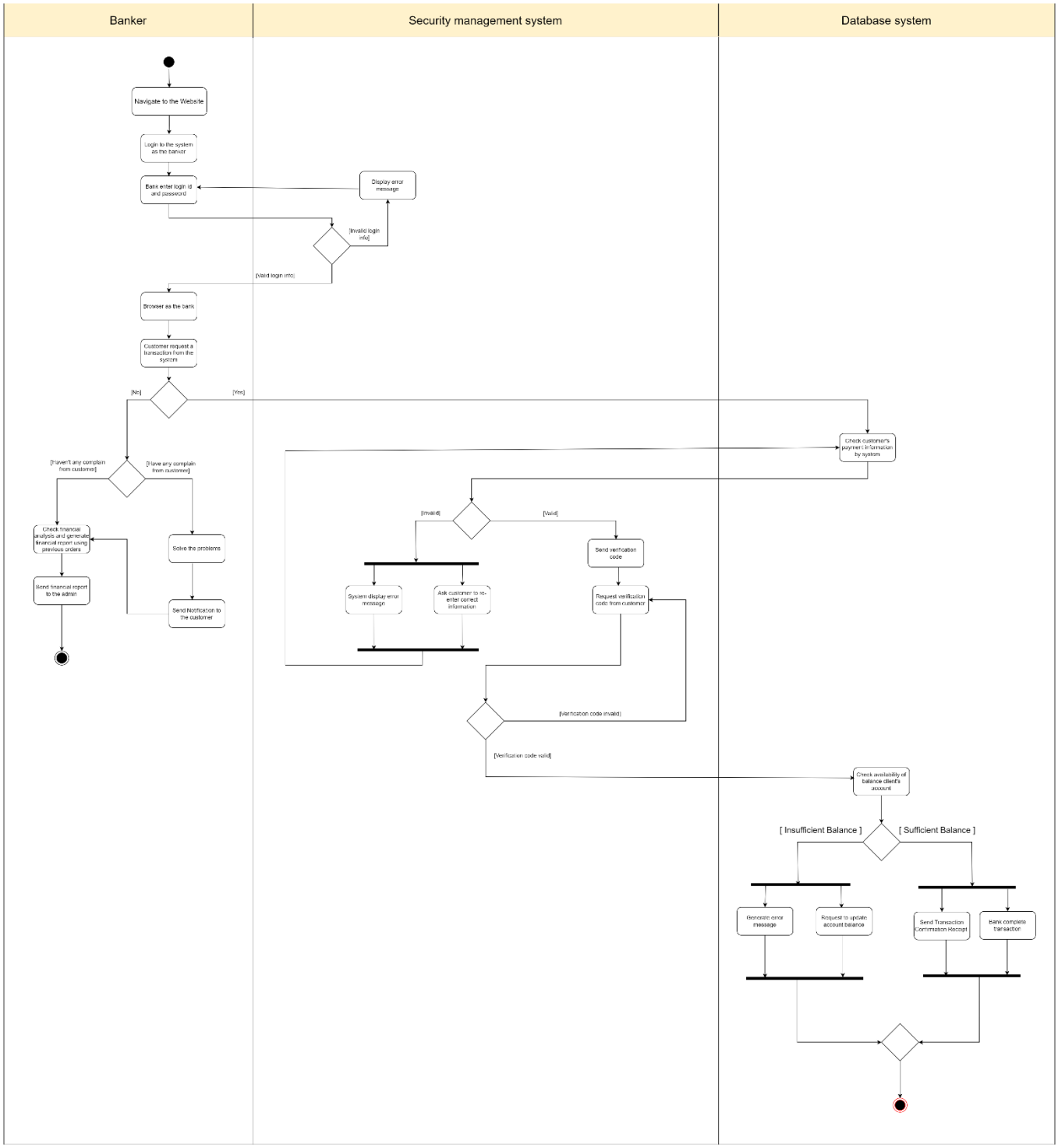

Login as Banker
Navigate to the Website
Banker enter login ID and Password
[Login ID & Password Invalid]
[Login ID & Password Valid]
Browse as the Banker


Banker
Level 1
Level 2
User management
System Management
Security Management
Database Management
User Authentication and Authorization
User Account Handling
Manage document and transaction
Login handler
Send transaction confirmation email
Validate user and bank information
Validate verification code
Generate error message
Check customer bank information
Manage database



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Use Case Scenario

Member 5: IT23442498 (Vidanapathirana L S)

Individual Contribution:

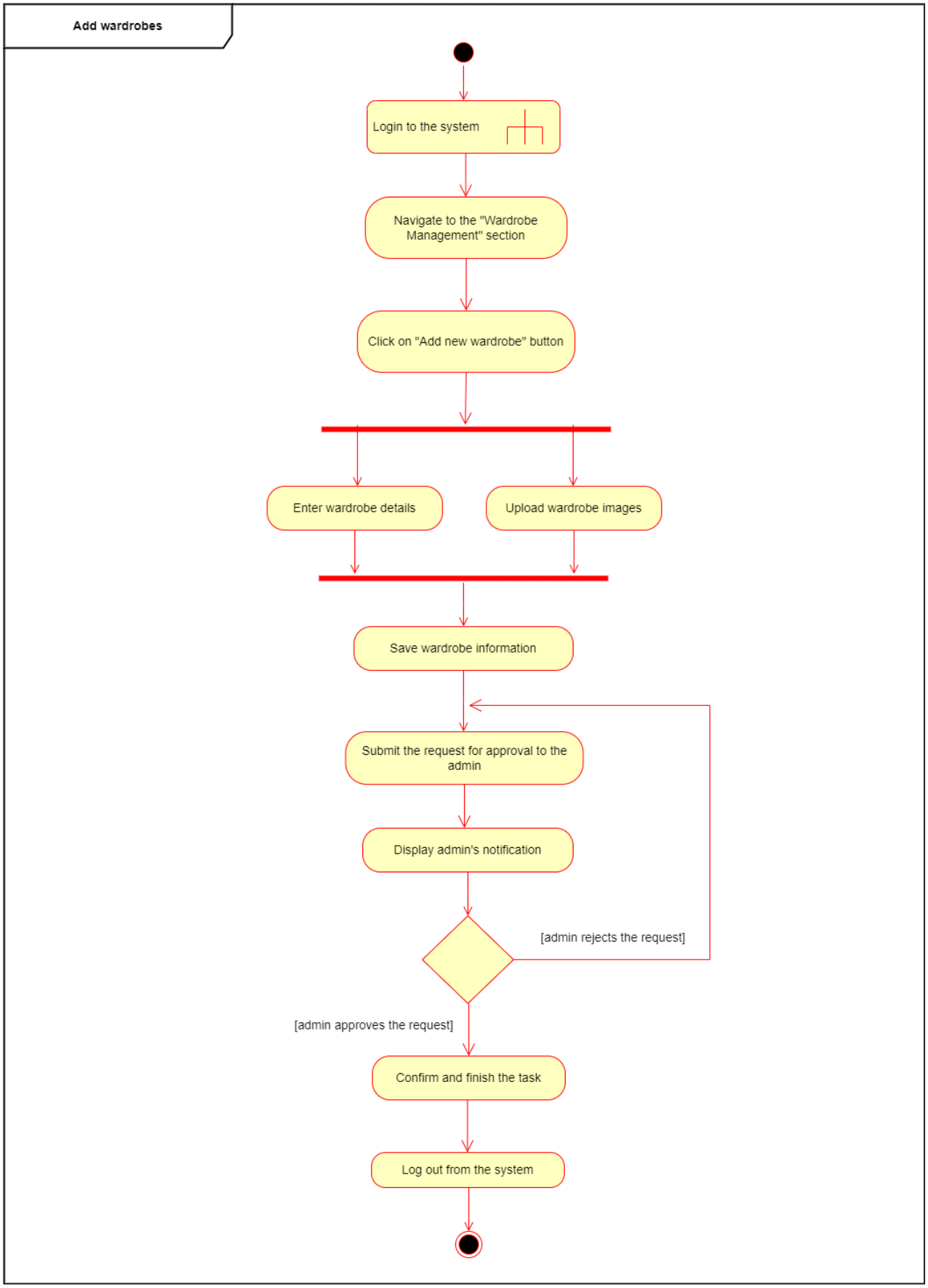
- Worked on the actor – Fashion Designer
- Generalized the use case for actor fashion designer.
- Create use case scenarios for,
    - Add wardrobes.

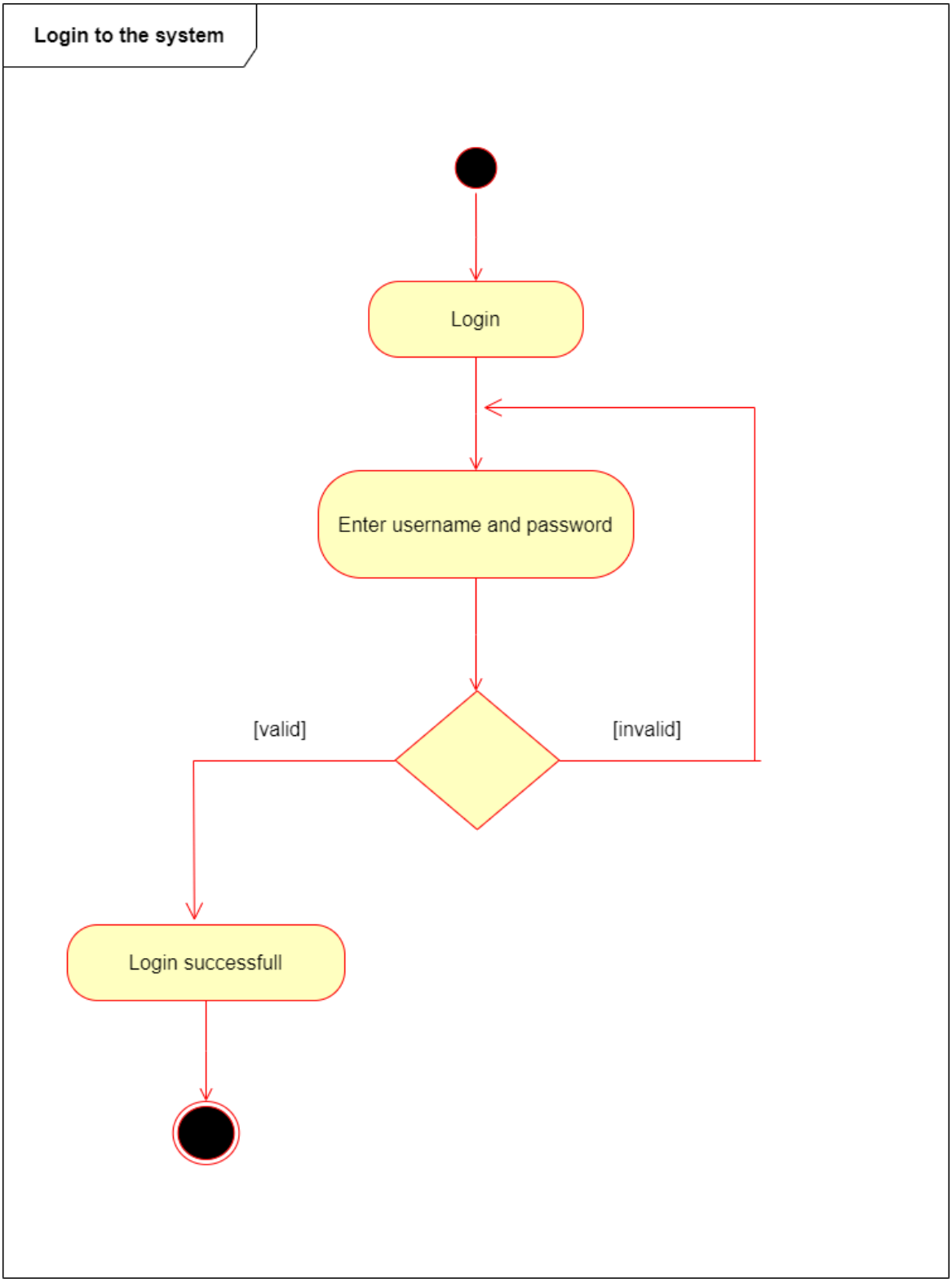
Section: The fashion designer can create and manage new clothing items within their collection.

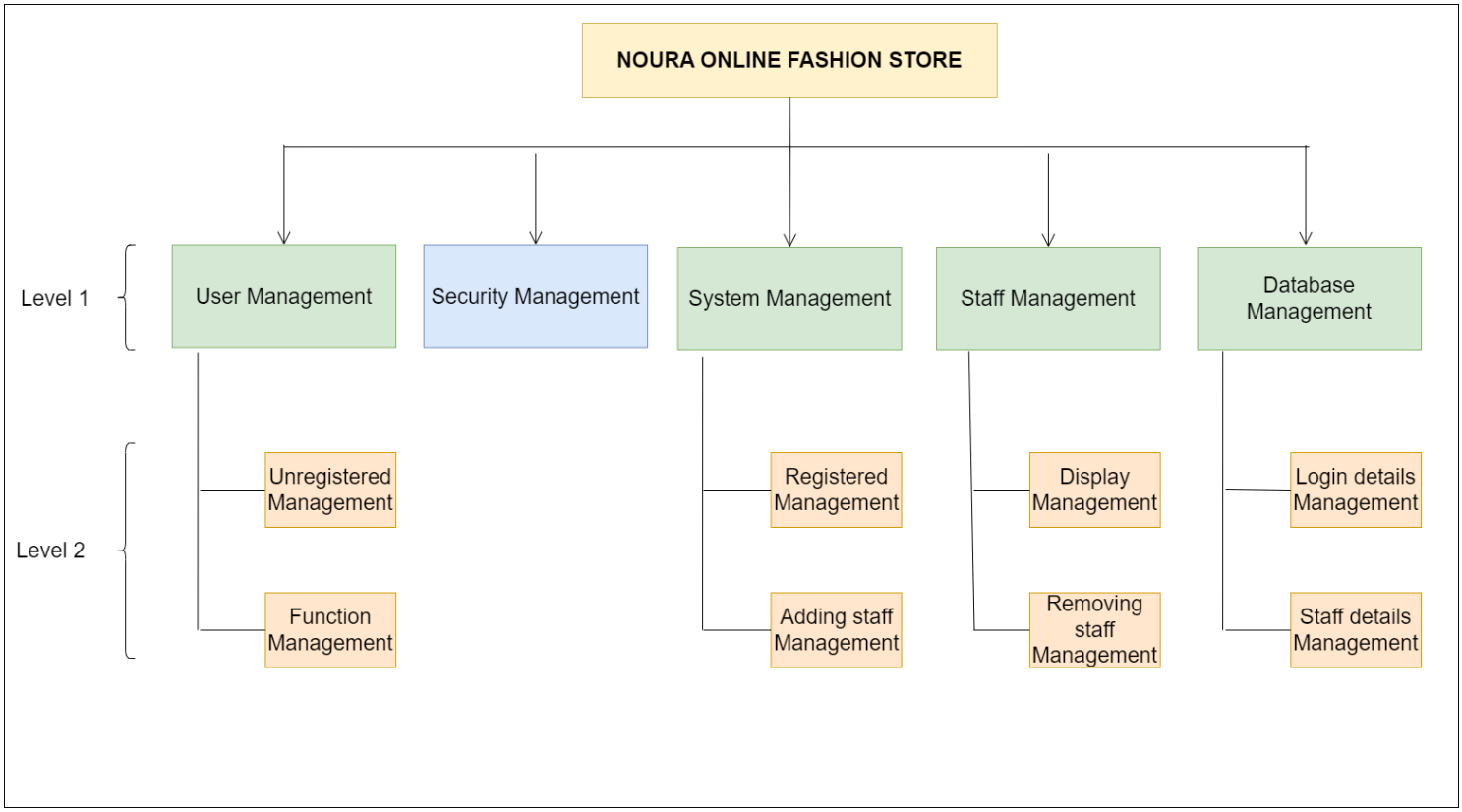
Challenge: Curating and integrating new wardrobe pieces seamlessly into the existing collection.

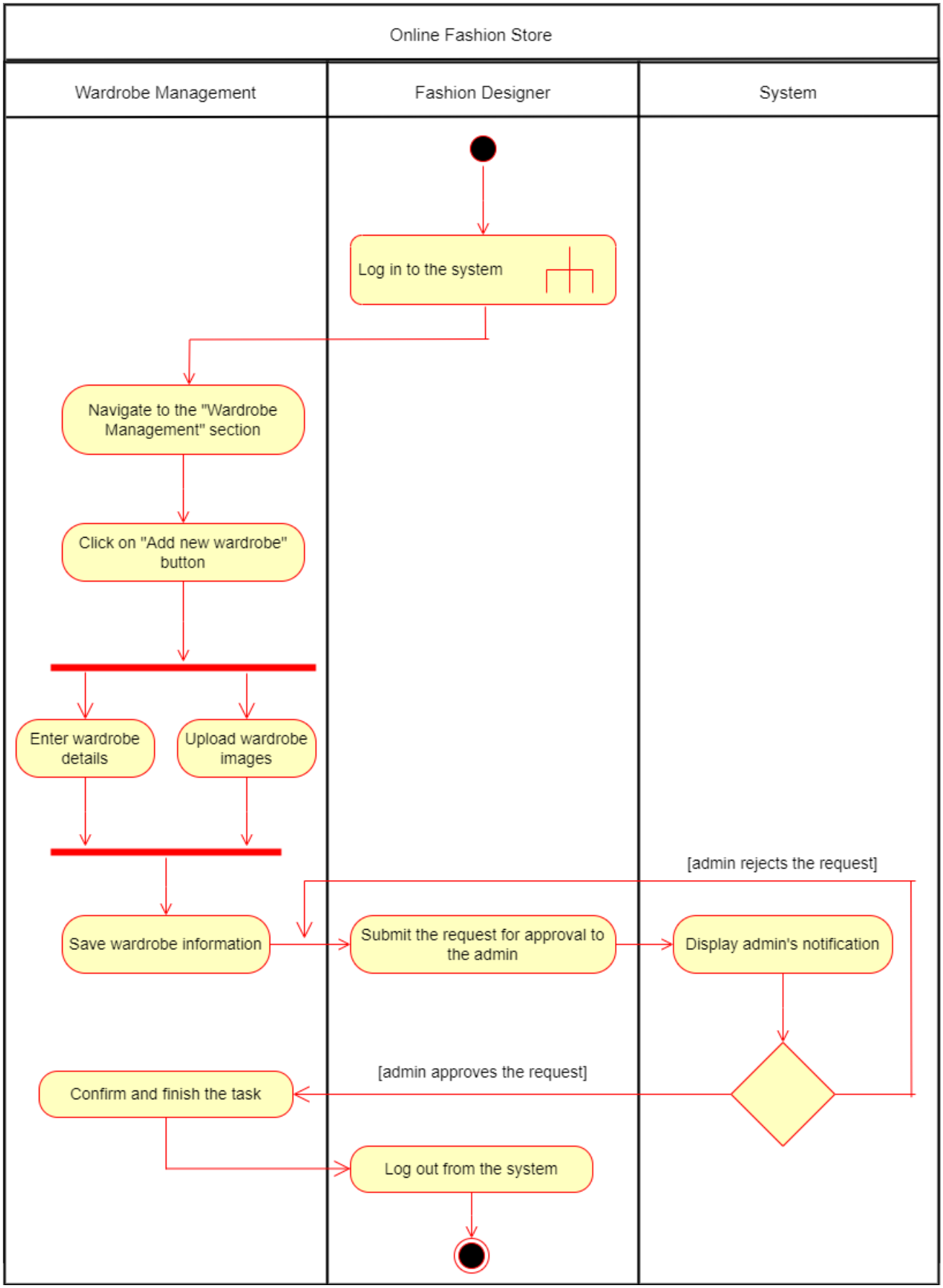
Number	07	
Name	Add wardrobes	
Summary	The administrator receives the notifications regarding approvals.	
Priority	02	
Pre-condition	The fashion designer has access to the design platform or system. The designer has appropriate permission to add new wardrobe items.	
Post condition	The item is accessible and visible within the design platform.	
Primary actor	Fashion Designer	
Tigger	The fashion designer decides to introduce a new wardrobe.	
Main scenario	**Step**	**Action**

	1	The fashion designer logs into the system and navigates to the "Add wardrobe" section.
	2	The fashion designer fills out the required details for the new wardrobe.
	3	The fashion designer submits the request for approval to the admin.
	4	The fashion designer receives notification of the admin's decision.
Extension	4 (a)	If the admin rejects the request, the fashion designer may revise the details and resubmit the request for approval.
	4 (b)	If you admin approves the request, the fashion designer may proceed with utilizing the newly added wardrobe in their fashion designs.
Open issues	How to handle the different clothing categories.	


Add wardrobes
Login to the system
Navigate to the "Wardrobe Management" section
Click on "Add new wardrobe" button
Enter wardrobe details
Upload wardrobe images
Save wardrobe information
Submit the request for approval to the admin
Display admin's notification
[admin rejects the request]
[admin approves the request]
Confirm and finish the task
Log out from the system

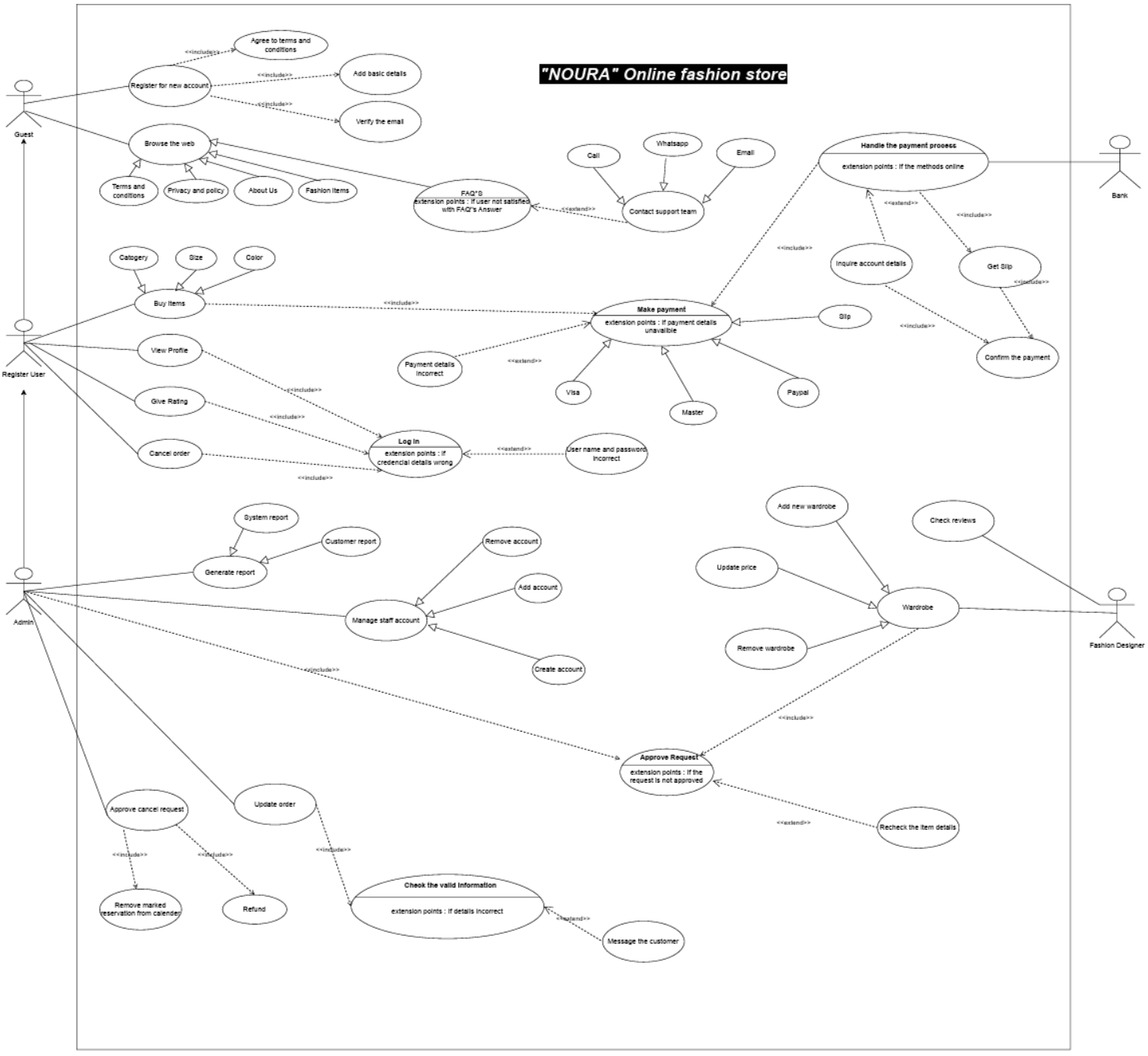

Login to the system
Login
Enter username and password
[valid]
[invalid]
Login successfull


NOURA ONLINE FASHION STORE
Level 1
User Management
Security Management
System Management
Staff Management
Database Management
Level 2
Unregistered Management
Function Management
Registered Management
Adding staff Management
Display Management
Removing staff Management
Login details Management
Staff details Management


Online Fashion Store
Wardrobe Management
Fashion Designer
System
Log in to the system
Navigate to the "Wardrobe Management" section
Click on "Add new wardrobe" button
Enter wardrobe details
Upload wardrobe images
Save wardrobe information
Submit the request for approval to the admin
Display admin's notification
[admin rejects the request]
[admin approves the request]
Confirm and finish the task
Log out from the system

Use Case Diagram
and
Use Case Scenarios

“NOURA” Online Fashion Store



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SLIIT Discover Your Future

BSc (Hons) in Information Technology

Assignment 2 – Marking Scheme

IT1060 – Software Process Modeling 2022 -July

PROJECT ID: 24/Y1/S2/MTR-13 **CASE STUDY NAME: Online Fashion Store**

Part I	*Max. Mark*	*IT Number•*	*IT Number-*	*IT Number-*	*IT Number-*	*IT Numbe r-*
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						

PROJECT ID: ..... **CASE STUDY NAME:** .....

Part II	Max. Mark	IT Number	IT Number	IT Number	IT Number	IT Number
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						