

National University of Computer & Emerging Sciences



Object Oriented Analysis and Design

Section C

Phase 1

Project Name: Sales Management System

Team # 1

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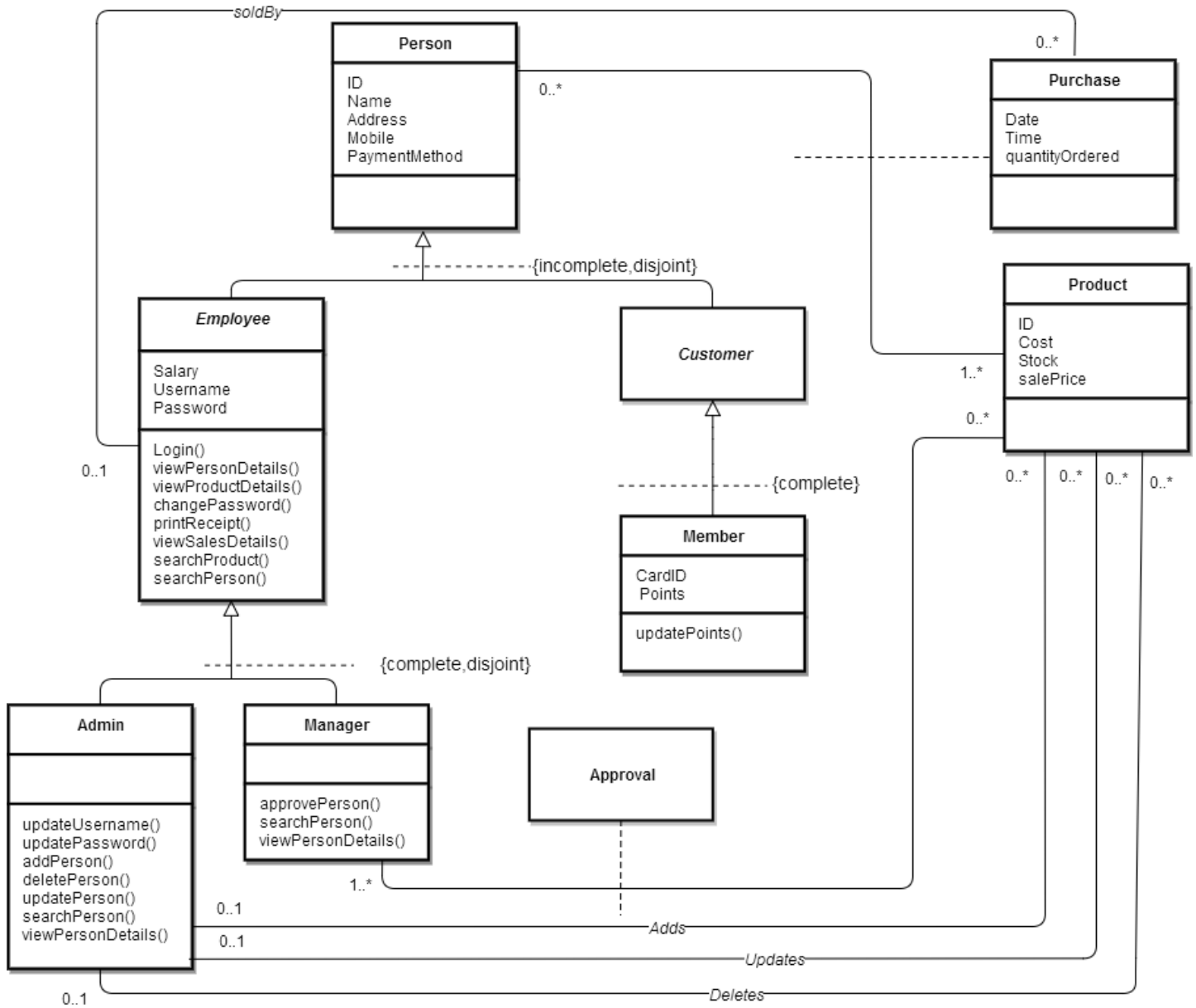
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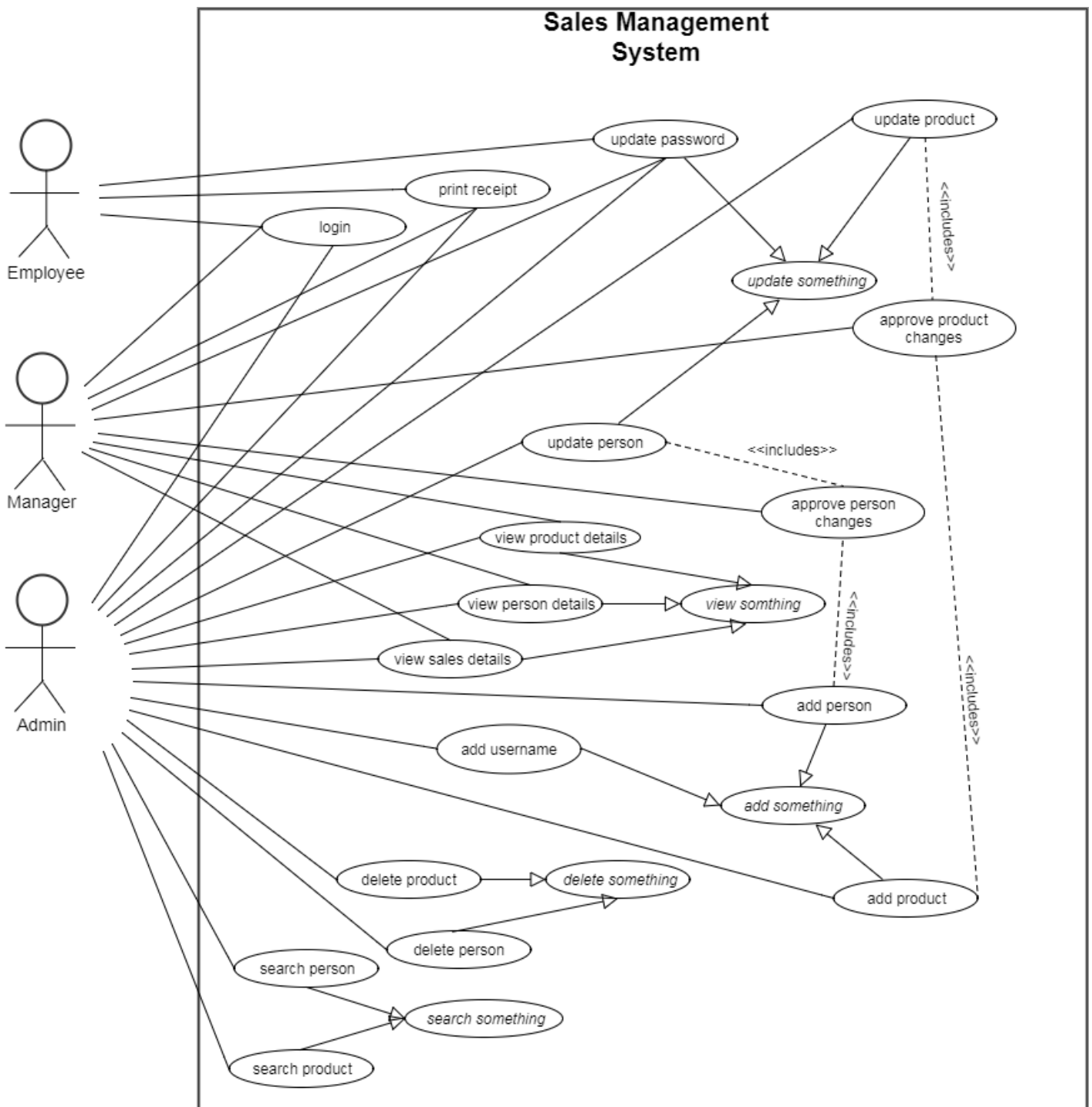
Table of Contents

Class Analysis Diagram	2
Use Case Diagram	3
Use Case Texts	4
Activity Diagrams	17
1. UC-1.....	17
2. UC-2.....	18
3. UC-3.....	19
4. UC-4.....	20
5. UC-5.....	21
6. UC-6.....	22
7. UC-7.....	23
8. UC-8.....	24
9. UC-9.....	25
10. UC-10.....	26
11. UC-11.....	27
12. UC-12.....	28
13. UC-13.....	29
14. UC-14.....	30
15. UC-15.....	31
16. UC-16.....	32
17. UC-17.....	33

Class Analysis Diagram



Use Case Diagram



*Note:
Assume that login is to be done before any other action takes place (use <<include>>).
Due to too much mess, it's not explicitly shown in the diagram.

Use Case Texts

Identifier	UC-1	
Name	Login	
Summary	Person (Admin, Employee, Customer) can login into the system	
Priority	High	
Actors	Person	
Pre-condition(s)	System is running in the database.	
Post-condition(s)	Person will be able to access his/her profile.	
Typical Course of Action		
S#	Actor Action	System Response
1	Enter ID.	
2	Enter Password.	
3		Checks ID.
4		If found, accept.
5		Checks Password.
6		If matched, accept.
7		Go to Person’s Profile.
Alternate Course of Action		
S#	Actor Action	System Response
4		If not found, reject.
5		Prompt user to enter ID again.
Alternate Course of Action		
S#	Actor Action	System Response
6		If not matched, reject.
7		Prompt Person to enter password again.

Identifier	UC-2
Name	Update Password
Summary	Person (Admin, Employee and Customer) can update their account passwords
Priority	Medium
Actors	Person (Admin, Employee and Customer)
Pre-condition(s)	Person is logged in with his/her profile.
Post-condition(s)	Password of Person has been updated to new password.

Typical Course of Action		
S#	Actor Action	System Response
1	Enter Old Password.	
2		Verify Old Password.
3		If verified, accept.
4	Enter new Password.	
5	Enter Confirm New Password.	
6		Check new and confirm new password.
7		If matched, accept.
8		Save Password.
9		Prompt message "Password updated successfully".
Alternate Course of Action 1 (Password not verified)		
S#	Actor Action	System Response
3		If not verified, reject.
4		Prompt Person to enter old password again.
Alternate Course of Action 2 (New & Confirm Password Mismatch)		
S#	Actor Action	System Response
7		If not match, reject.
8		Prompt Person to enter confirm new password again.

Identifier	UC-3	
Name	Print Receipt	
Summary	Print out the receipt from Order Details table	
Priority	High	
Actors	Employee, Manager	
Pre-condition(s)	Database connection is running, employee logged in, current order details have been entered in Order Details	
Post-condition(s)	Receipt successfully printed	
Typical Course of Action		
S#	Actor Action	System Response
1	Selects Print Receipt Option.	

2		Gets data from Order Details.
3		Check if the data is available in the database.
4		Data found.
5		Organizes data in receipt form.
6		Creates file.
7		Shows preview.
8	Clicks on Print.	
9		Sends file to printer.
Alternate Course of Action		
S#	Actor Action	System Response
4		Data not found.
5		Displays error message.

Identifier		UC-4
Name		Update Person
Summary		Change details of a person
Priority		Medium
Actors		Admin
Pre-condition(s)		Admin is logged in
Post-condition(s)		Change is valid leaving database consistent.
Typical Course of Action		
S#	Actor Action	System Response
Include UC-1		
1	Open admin panel	
2	Search a person	
3		Load details of the person
4	Make changes to details	
5	Submit changes	
6		Forward changes to store manager for approval
7		Display confirmation message
Alternate Course of Action 1 (Failed person search)		

S#	Actor Action	System Response
3		Display error message
Go to step 2		

Identifier	UC-5	
Name	Approve Product Changes	
Summary	Approval of product changes by manager	
Priority	High	
Actors	Manager	
Pre-condition(s)	Manager is logged in	
Post-condition(s)	Change is valid leaving database consistent.	
Typical Course of Action		
S#	Actor Action	System Response
Include UC-1		
1	Open manager panel	
2	Open list of product changes	
3		Displays the list of product changes made by admin
4	Selects product changes to approve	
5	Submit changes	
6		Approves the product changes
7		Displays confirmation message

Identifier	UC-6	
Name	Approve Person Changes	
Summary	Approval of Person changes previously made by manager	
Priority	High	
Actors	Manager	
Pre-condition(s)	Manager is logged in.	
Post-condition(s)	Change is valid leaving database consistent.	
Typical Course of Action		
S#	Actor Action	System Response
Include UC-1		

1	Open manager panel	
2	Open list of person changes	
3		Displays the list of person changes made by admin
4	Selects person changes to approve	
5	Submit changes	
6		Approves the person changes
7		Displays confirmation message

Identifier	UC-7	
Name	Update Product	
Summary	Modification for specific product.	
Priority	Medium	
Actors	Admin	
Pre-condition(s)	User has been logged in.	
Post-condition(s)	Send response to the manager for approval.	
Typical Course of Action		
S#	Actor Action	System Response
1	Clicks on product Information tab.	
2	Clicks on show product details button.	
3		Asks for product name and attributes.
4	Enters product’s name and attributes.	
5	Click submit button.	
6		Send response to manager with proposed features for approval.
Go to UC 5		
Alternate Course of Action 1 (Invalid Product Name)		
S#	Actor Action	Actor Action
6		Prompts a message: “Please enter the appropriate product name.”

Go to step 4		
Alternate Course of Action 2 (No Product in Database)		
S#	Actor Action	System Response
6		Prompts a message: "No product available."

Identifier		UC-8
Name		Search Person
Summary		This function searches for a person
Priority		High
Actors		Admin, Manager
Pre-condition(s)		User has been logged in.
Post-condition(s)		None.
Typical Course of Action		
S#	Actor Action	System Response
1	Enters person ID.	
2	Clicks submit button.	
3		Displays a message "Person found."
4		Displays the person details.
Alternate Course of Action 1 (Invalid Person Name)		
S#	Actor Action	System Response
3		Displays a message "Person not found."
4		Clears the enter product ID field.
Alternate Course of Action 2 (Null Person id)		
S#	Actor Action	System Response
3		Displays a message "Please enter a valid person id."
4		Clears the enter person ID field.

Identifier	UC-9
Name	View Person Details
Summary	Displays the summary of the details of Person.

Priority	Medium	
Actors	Admin, Manager	
Pre-condition(s)	User has been logged in.	
Post-condition(s)	None.	
Typical Course of Action		
S#	Actor Action	System Response
1	Clicks on details tab.	
2	Clicks on generates detail button.	
3		Displays the Person ID, Name, Address, Mobile Phone, Payment Method
Alternate Course of Action 1 (No Person ever made)		
S#	Actor Action	System Response
3		Prompts a message: "There is no Person."

Identifier	UC-10	
Name	Search Product	
Summary	This function searches for a specific product	
Priority	High	
Actors	Admin	
Pre-condition(s)	Product Information panel is opened.	
Post-condition(s)	None.	
Typical Course of Action		
S#	Actor Action	System Response
1	Enters product ID.	
2	Clicks submit button.	
3		Displays a message "Product found."
4		Displays the product details.
Alternate Course of Action 1 (Invalid Product Name)		
S#	Actor Action	System Response
3		Displays a message "Product not found."

4		Clears the enter product ID field.
Alternate Course of Action 2 (Null Product id)		
S#	Actor Action	System Response
3		Displays a message "Please enter a valid product id."
4		Clears the enter product ID field.

Identifier	UC-11	
Name	View Sale Details	
Summary	Displays the summary of the details of sales made in a month.	
Priority	Medium	
Actors	Admin, Manager	
Pre-condition(s)	Sales Information Panel is opened.	
Post-condition(s)	None.	
Typical Course of Action		
S#	Actor Action	System Response
1	Clicks on summary tab.	
2	Clicks on generates summary button.	
3		Displays the total profit made, total sales, total items sold, names of item, quantities and month
Alternate Course of Action 1 (No Sales ever made)		
S#	Actor Action	System Response
3		Prompts a message: "No sales made yet."

Identifier	UC-12
Name	View Product Details
Summary	Displays the details of a specific product.
Priority	Medium

Actors		Admin, Manager	
Pre-condition(s)		User has been logged in.	
Post-condition(s)		None.	
Typical Course of Action			
S#	Actor Action	System Response	
1	Clicks on Product Information tab.		
	Clicks on Show Product Details button.		
2		Asks for product name.	
3	Product name selected from dropdown menu.		
4		Displays the total quantity ordered from the beginning, total cost, total profit, price of the product, quantity in stock.	
Alternate Course of Action 1 (Invalid Product Name)			
S#	Actor Action	Actor Action	
4		Prompts a message: "Please enter the appropriate product name."	
Go to step 2			
Alternate Course of Action 2 (No Product in Database)			
S#	Actor Action	System Response	
4		Prompts a message: "No product available."	
Identifier		UC-13	
Name		Delete Product	
Summary		This function delete a specific product	
Priority		Medium	
Actors		Admin	
Pre-condition(s)		User is in Product Information panel.	
Post-condition(s)		Database is updated.	
Typical Course of Action			
S#	Actor Action	System Response	
1	Enters product ID.		
2	Clicks submit button.		
3		Shows a conformation tab.	

4	Clicks on yes.	
5		Delete that product.
Alternate Course of Action 1 (Invalid Product Name)		
S#	Actor Action	System Response
2		Displays a message "No Such Product found."
Alternate Course of Action 2 (User select no on conformation)		
S#	Actor Action	System Response
4	Clicks on no.	
5		Clears the enter product ID field.

Identifier	UC-14	
Name	Delete Person	
Summary	Delete all the information of that person.	
Priority	Low	
Actors	Admin	
Pre-condition(s)	User is in Person Information panel.	
Post-condition(s)	Database is updated.	
Typical Course of Action		
S#	Actor Action	System Response
1	Enter User ID.	
2	Clicks on Submit button.	
3		Show a conformation tab.
4	Clicks on yes.	
5		Checks if that user is not currently logged in.
6		Delete that user all data.
Alternate Course of Action 1 (Invalid User ID)		
S#	Actor Action	System Response
2		Displays a message “No User found.”
3		Clears the enter User ID field.
Alternate Course of Action 2 (User select no on conformation)		
S#	Actor Action	System Response
4	Clicks on no.	

5		Clears the enter user ID field.
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Identifier	UC-15	
Name	Delete Username	
Summary	That user cant further login but its data remain	
Priority	Low	
Actors	Admin	
Pre-condition(s)	User is in Person Information panel	
Post-condition(s)	Database is updated	
Typical Course of Action		
S#	Actor Action	System Response
1	Enter User ID.	
2	Clicks on Submit button.	
3		Show a conformation tab.
4	Clicks on yes.	
5		Checks if that user is not currently logged in.
6		Delete username and password only.
Alternate Course of Action 1 (Invalid User ID)		
S#	Actor Action	System Response
2		Displays a message "No User found."
3		Clears the enter User ID field.
Alternate Course of Action 2 (User select no on conformation)		
S#	Actor Action	System Response
4	Clicks on no.	
5		Clears the enter user ID field.

Identifier	UC-16
Name	Add Product
Summary	Add a new product in the database
Priority	High

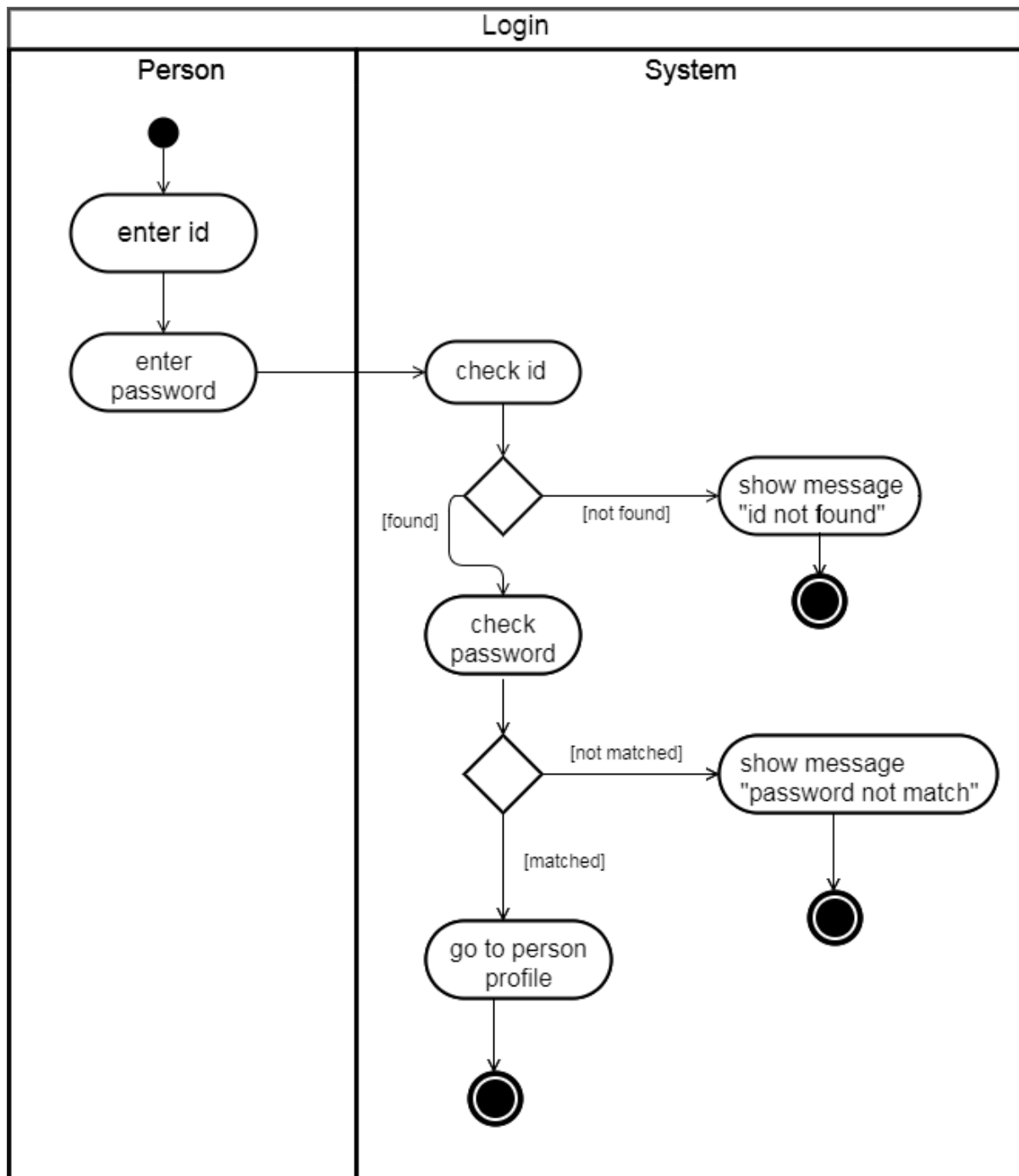
Actors		Admin
Pre-condition(s)		Database connection is running, admin logged in.
Post-condition(s)		Product is successfully added in the database.
Typical Course of Action		
S#	Actor Action	System Response
1	Enters product details.	
2		Search Database for duplicates.
3		If not found, accept.
4		Update product details in Database.
5		Prompt task is done.
Alternate Course of Action 1 (Redundancy)		
S#	Actor Action	System Response
3		If found, do not accept.
4		Prompt for unsuccessful addition.
Go to Step 1		

Identifier	UC-17	
Name	Add Person	
Summary	Add a new person (employee, customer) in database	
Priority	High	
Actors	Admin	
Pre-condition(s)	Database connection is running, admin logged in.	
Post-condition(s)	Record successfully added in the database.	
Typical Course of Action		
S#	Actor Action	System Response
1	Enter person details	
2		Search Database for ID duplicates.
3		If not found, accept.
4		Update database.

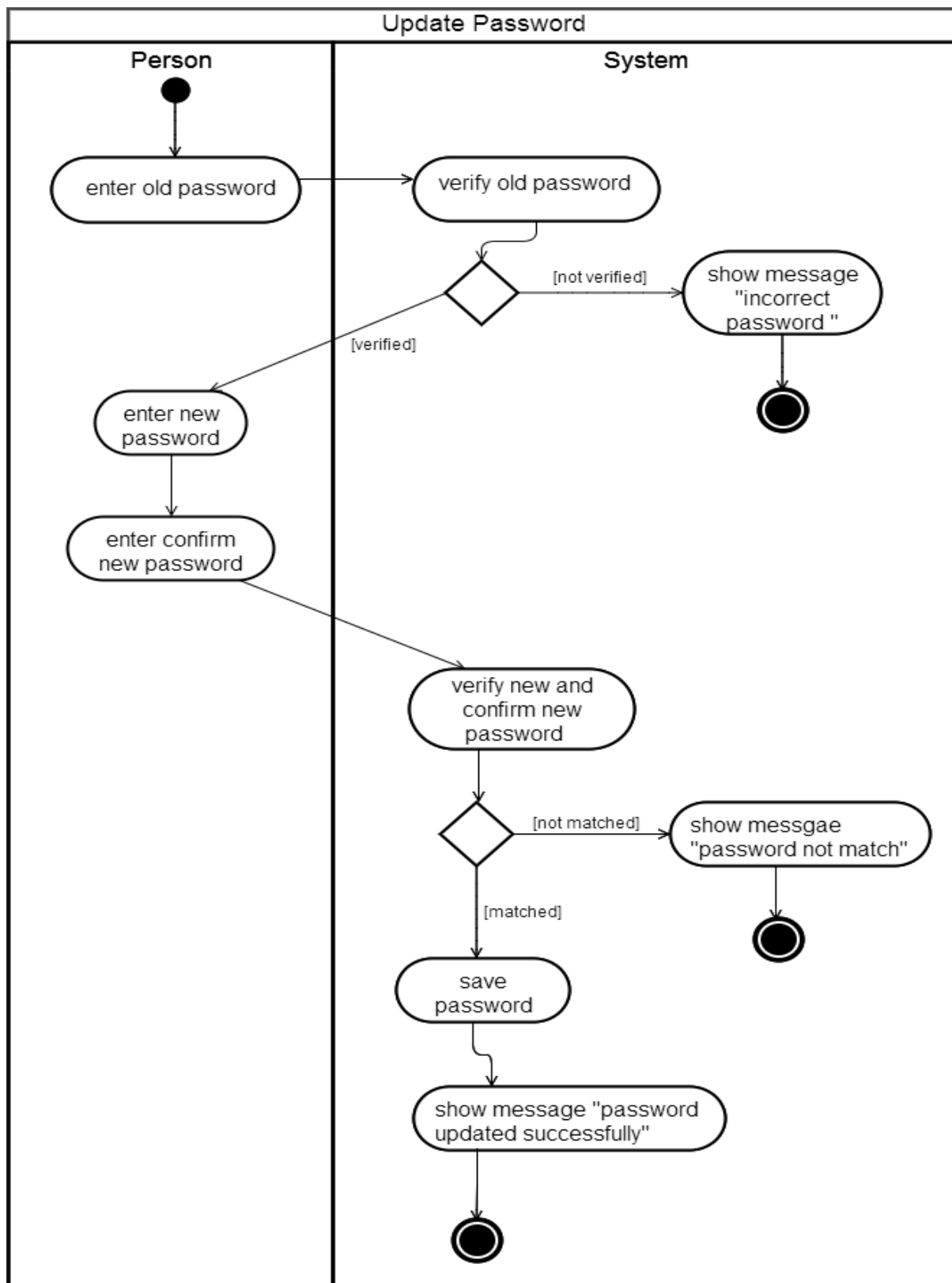
5		Prompt task is successful.
Alternate Course of Action 1 (Redundancy)		
S#	Actor Action	System Response
3		Search DB for ID duplicates.
4		If found, reject.
5		Prompt Error message.

Activity Diagrams

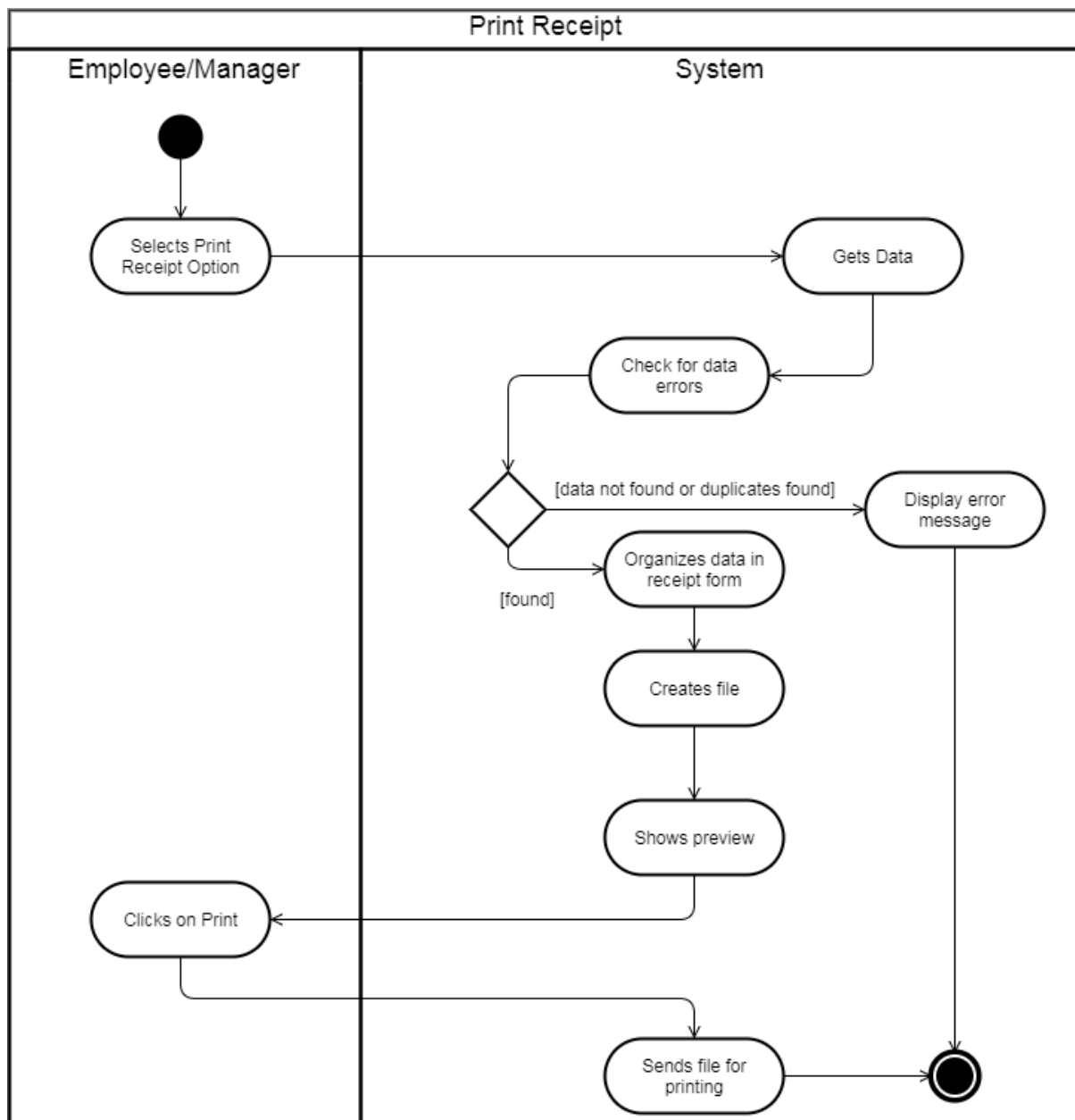
1. UC-1



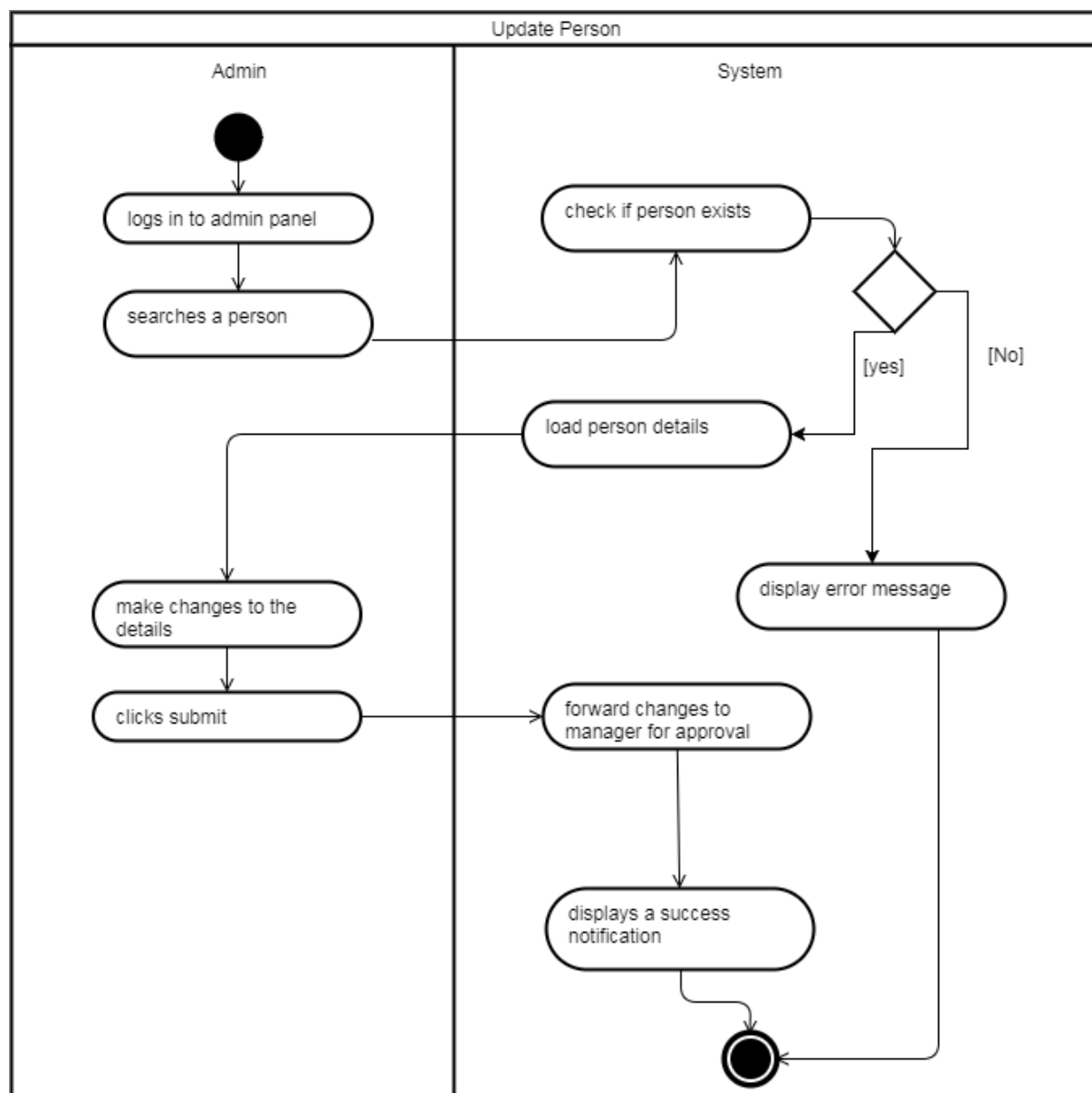
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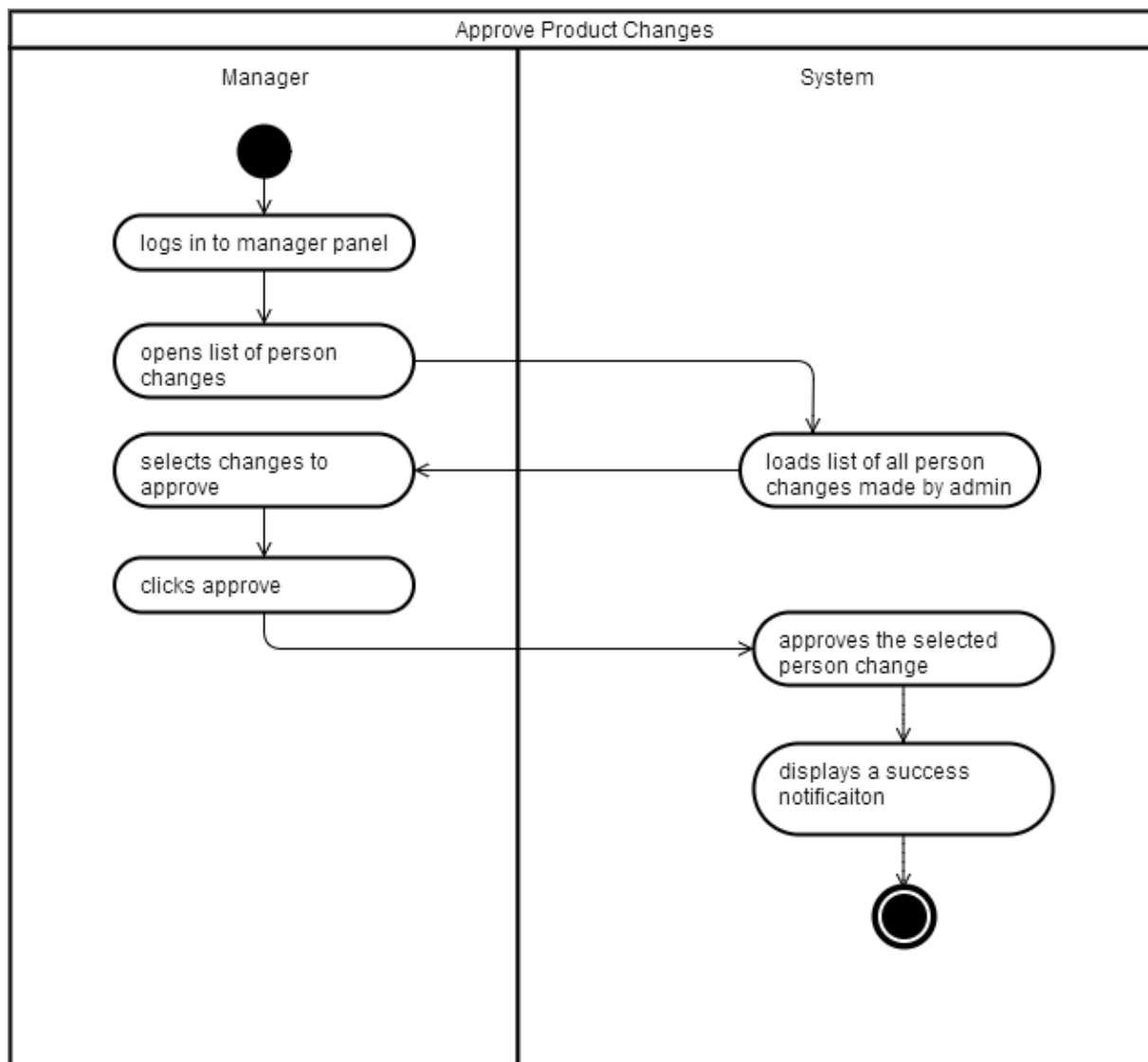
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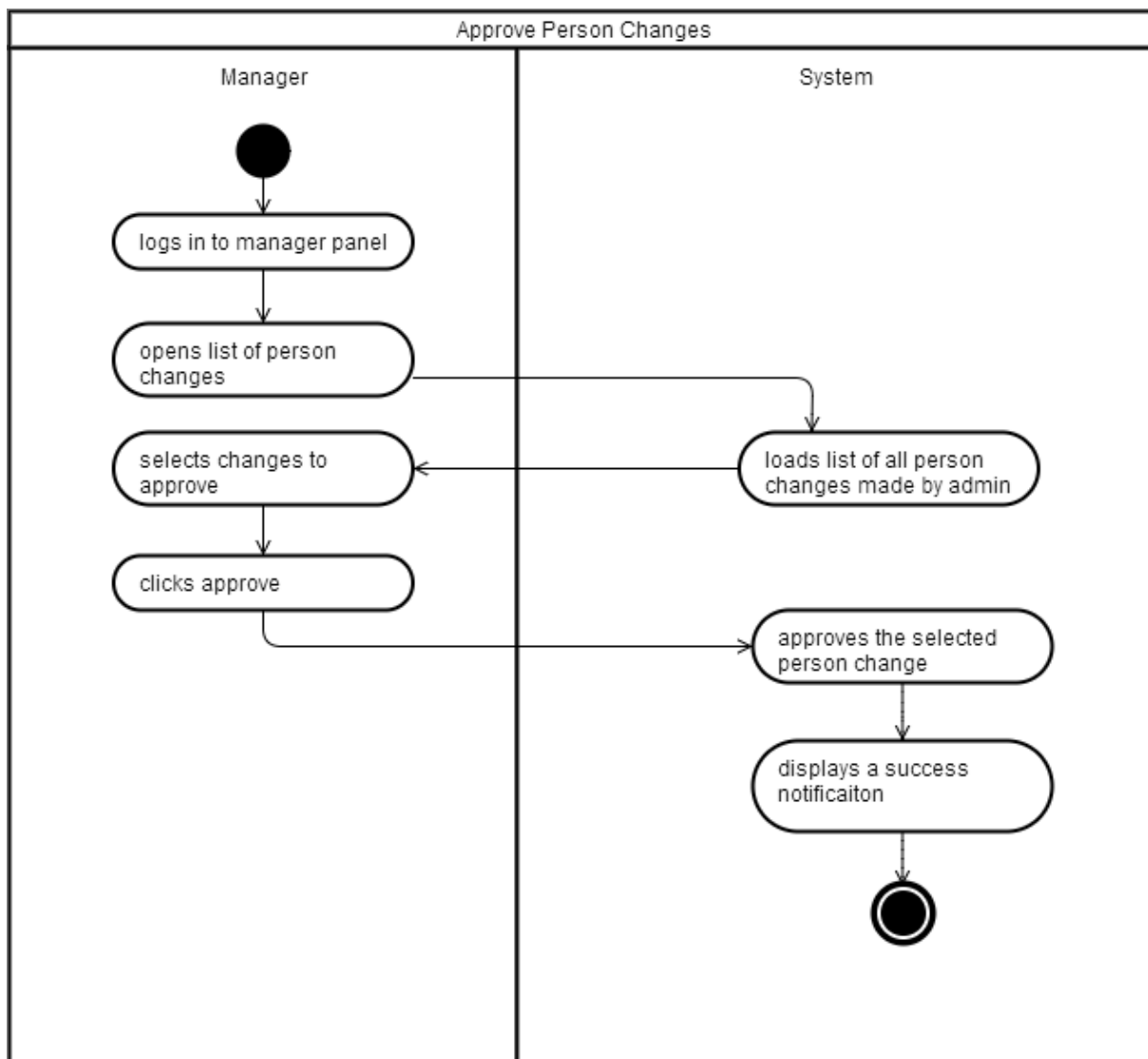
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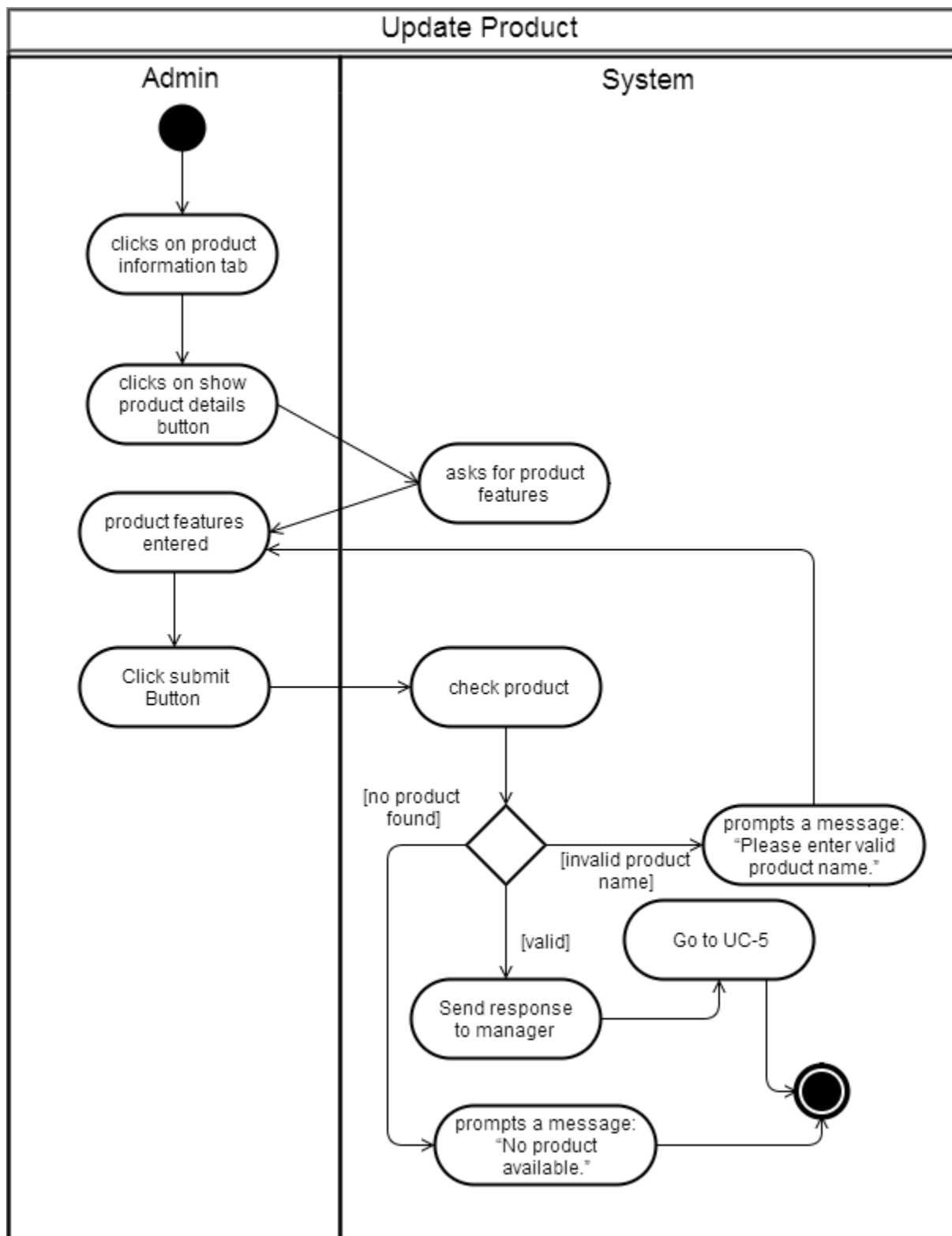
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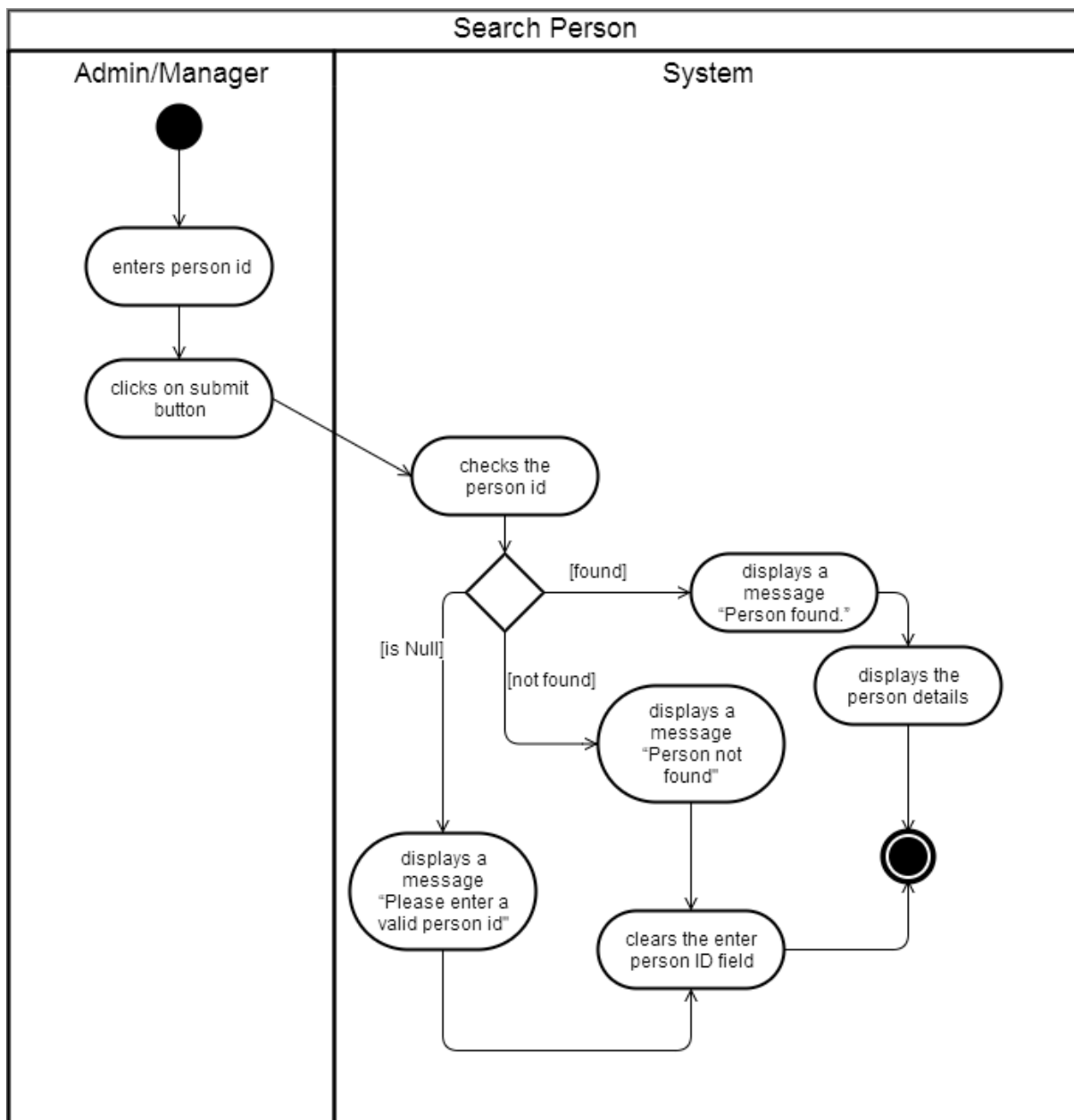
6. UC-6



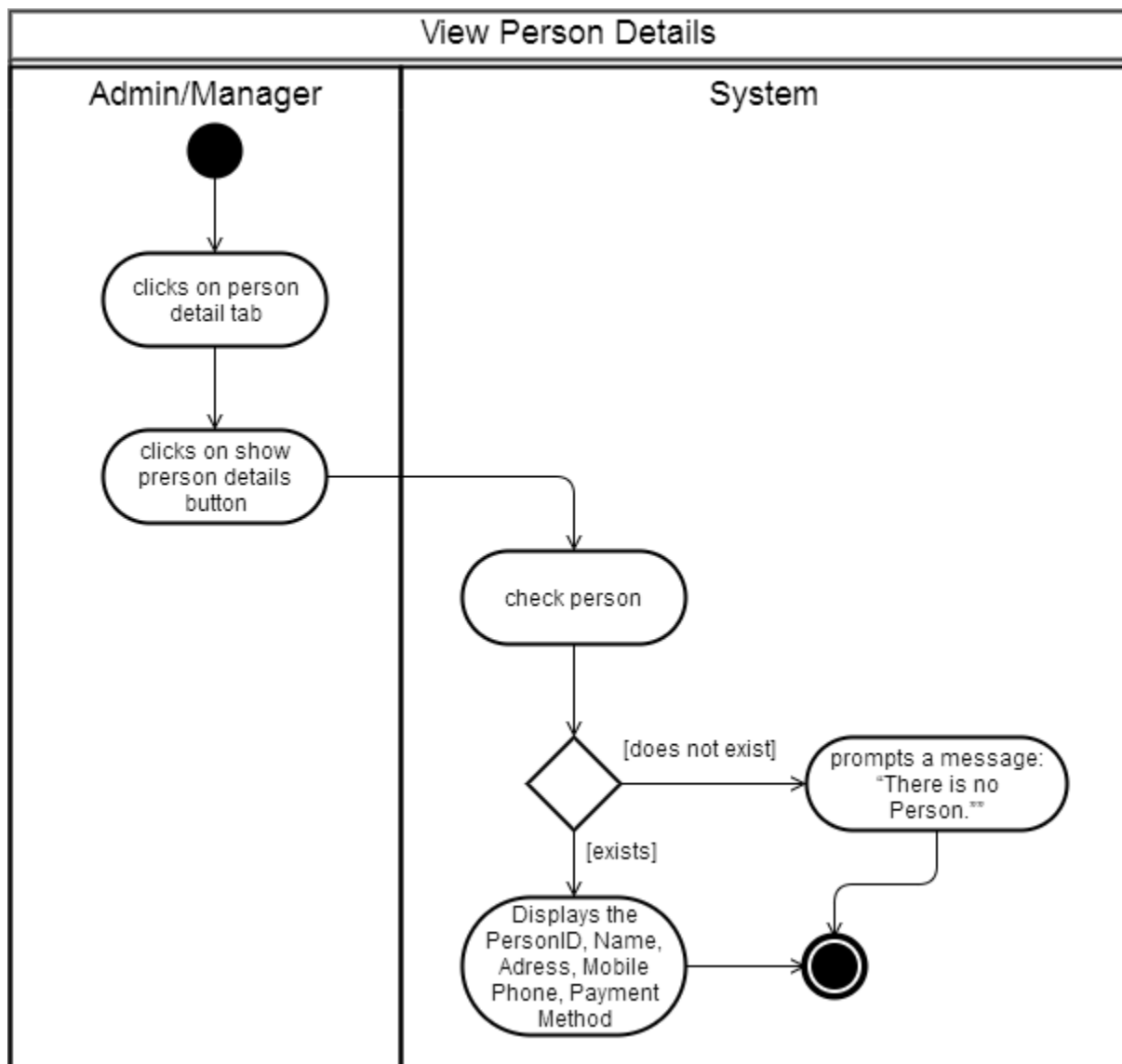
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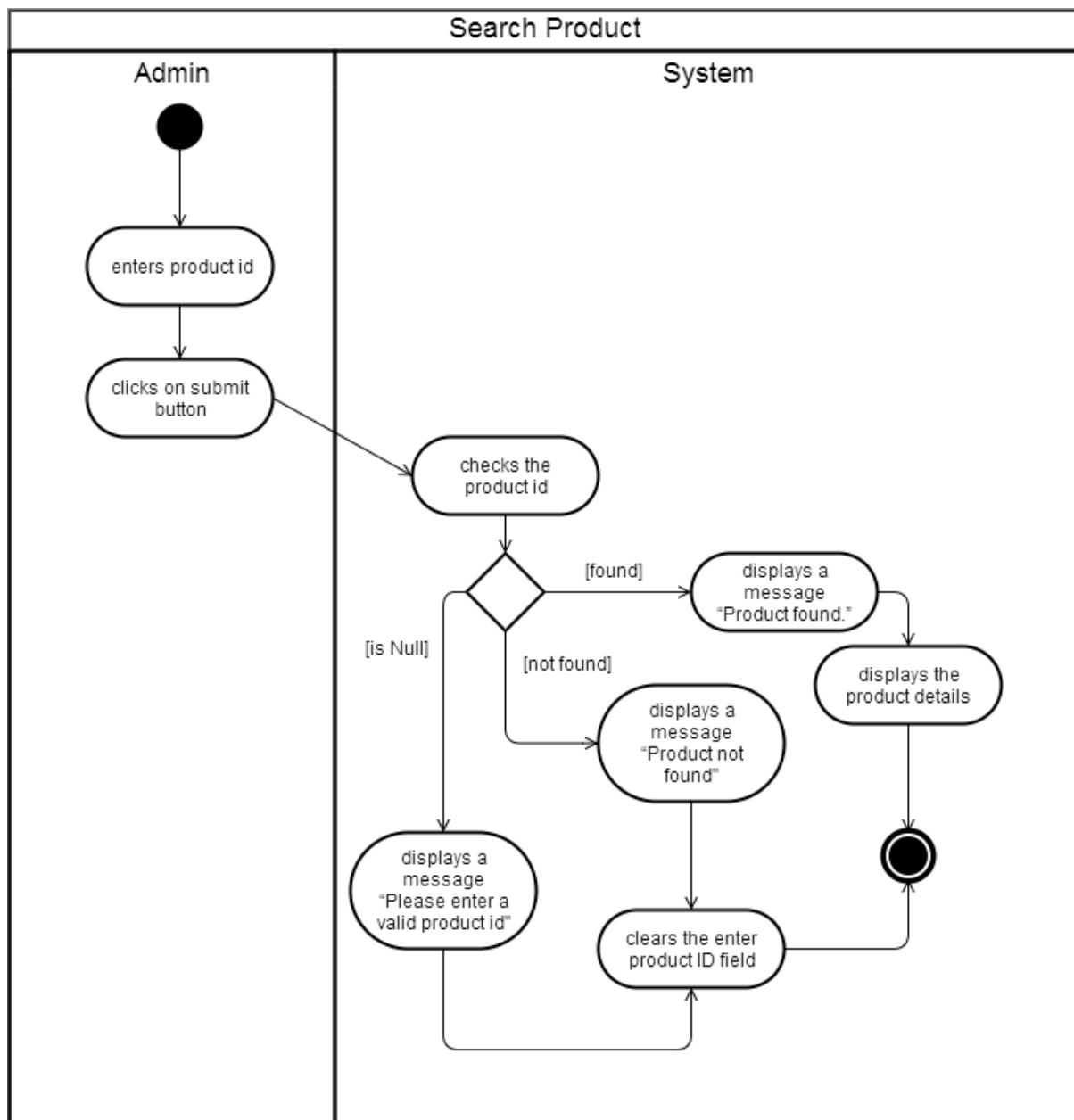
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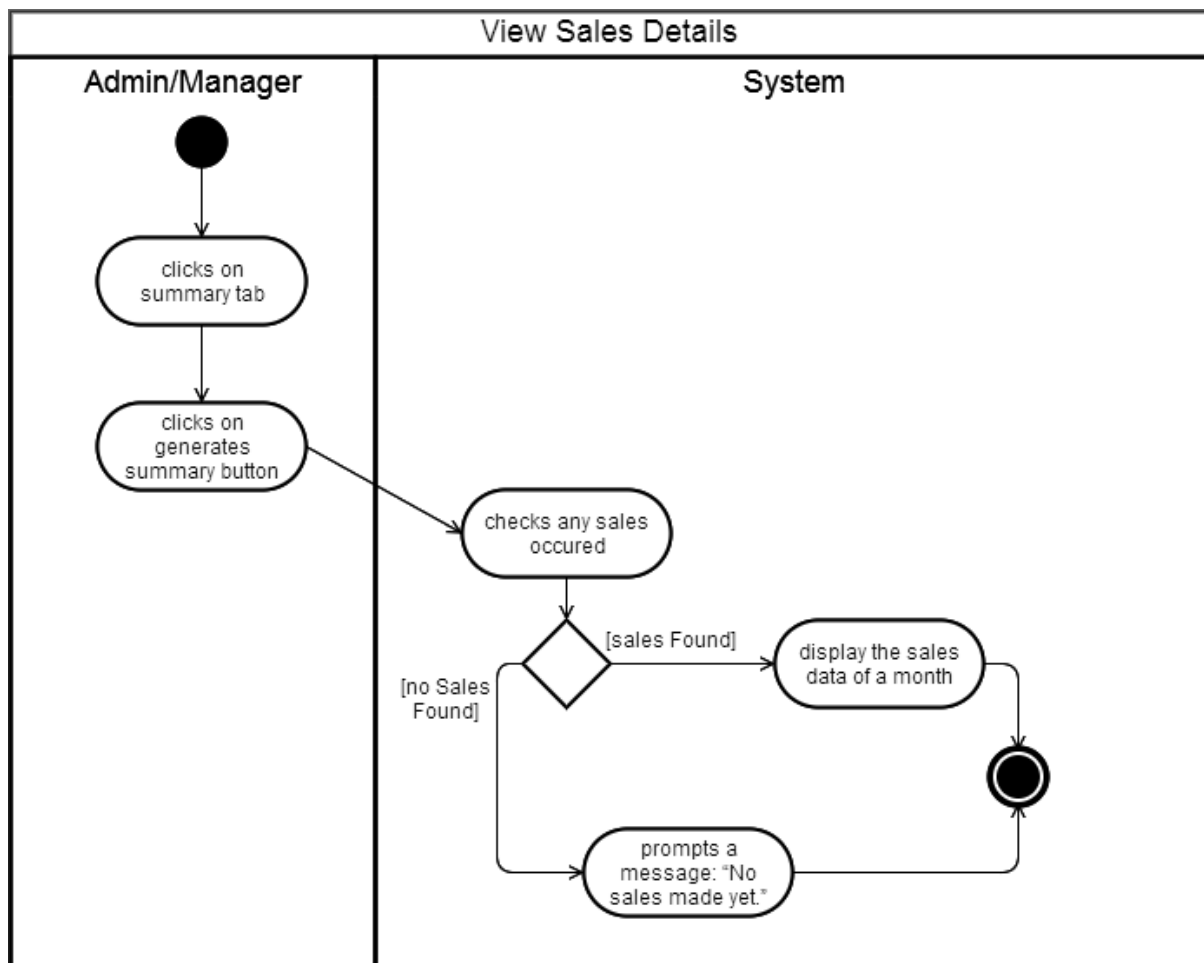
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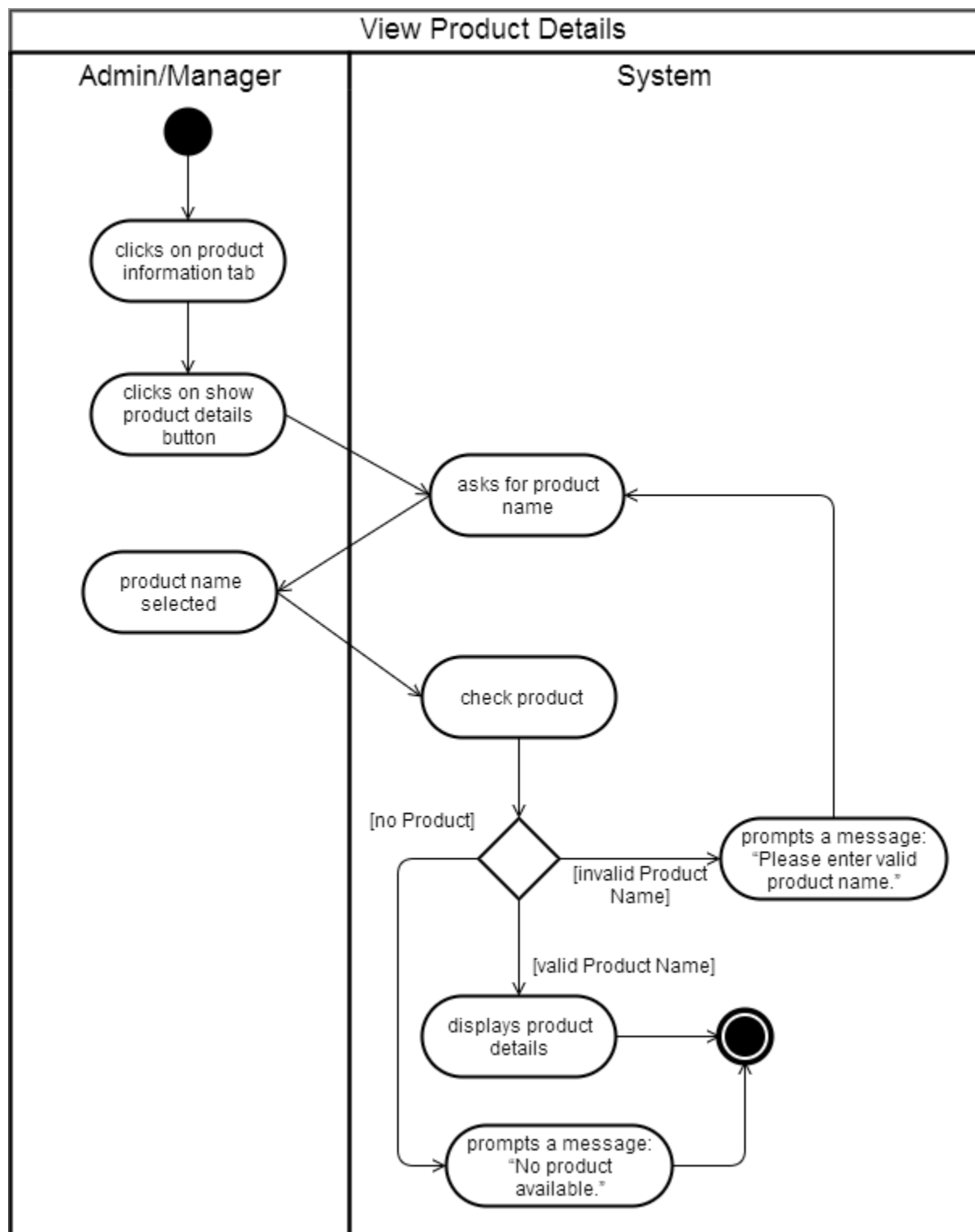
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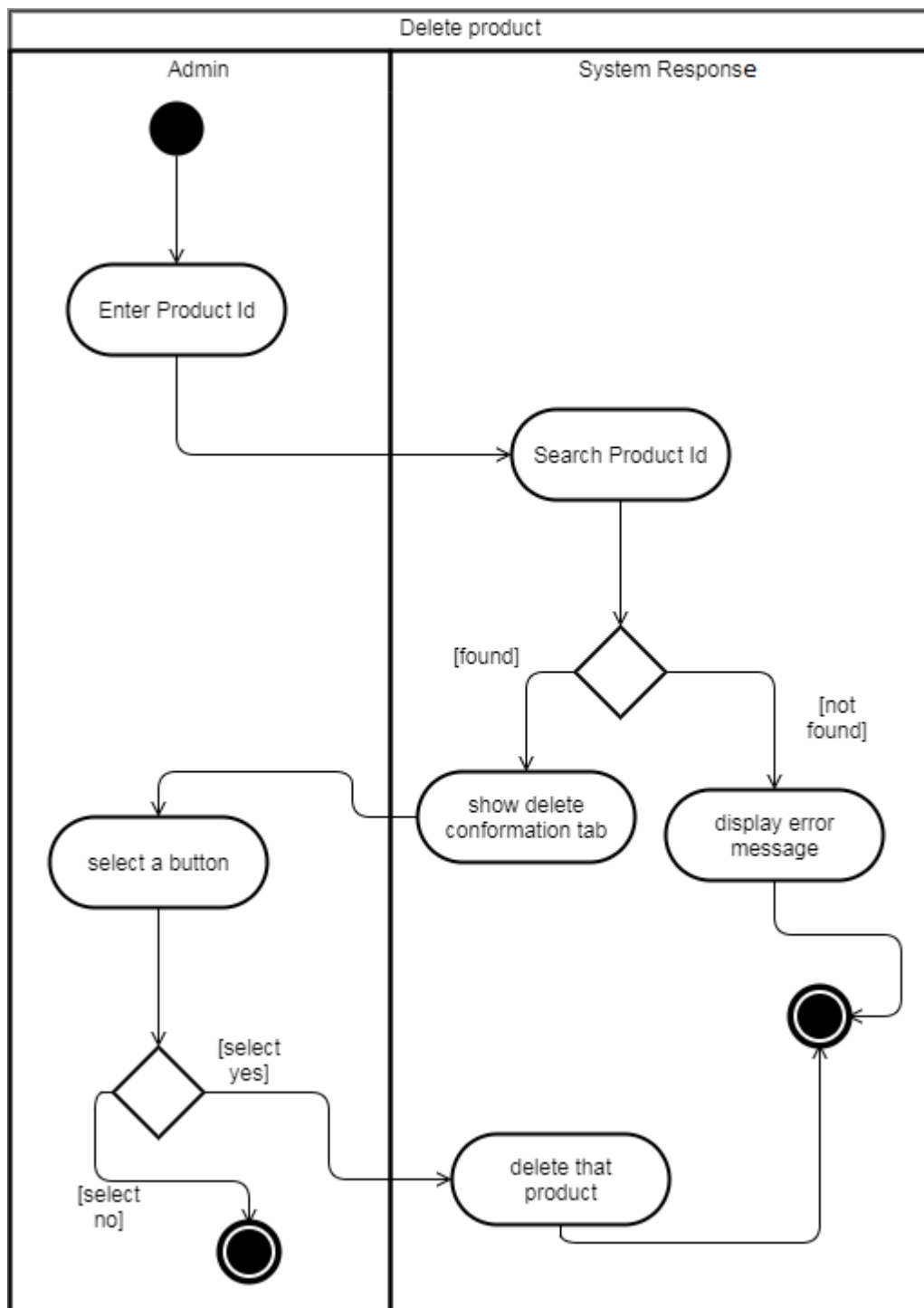
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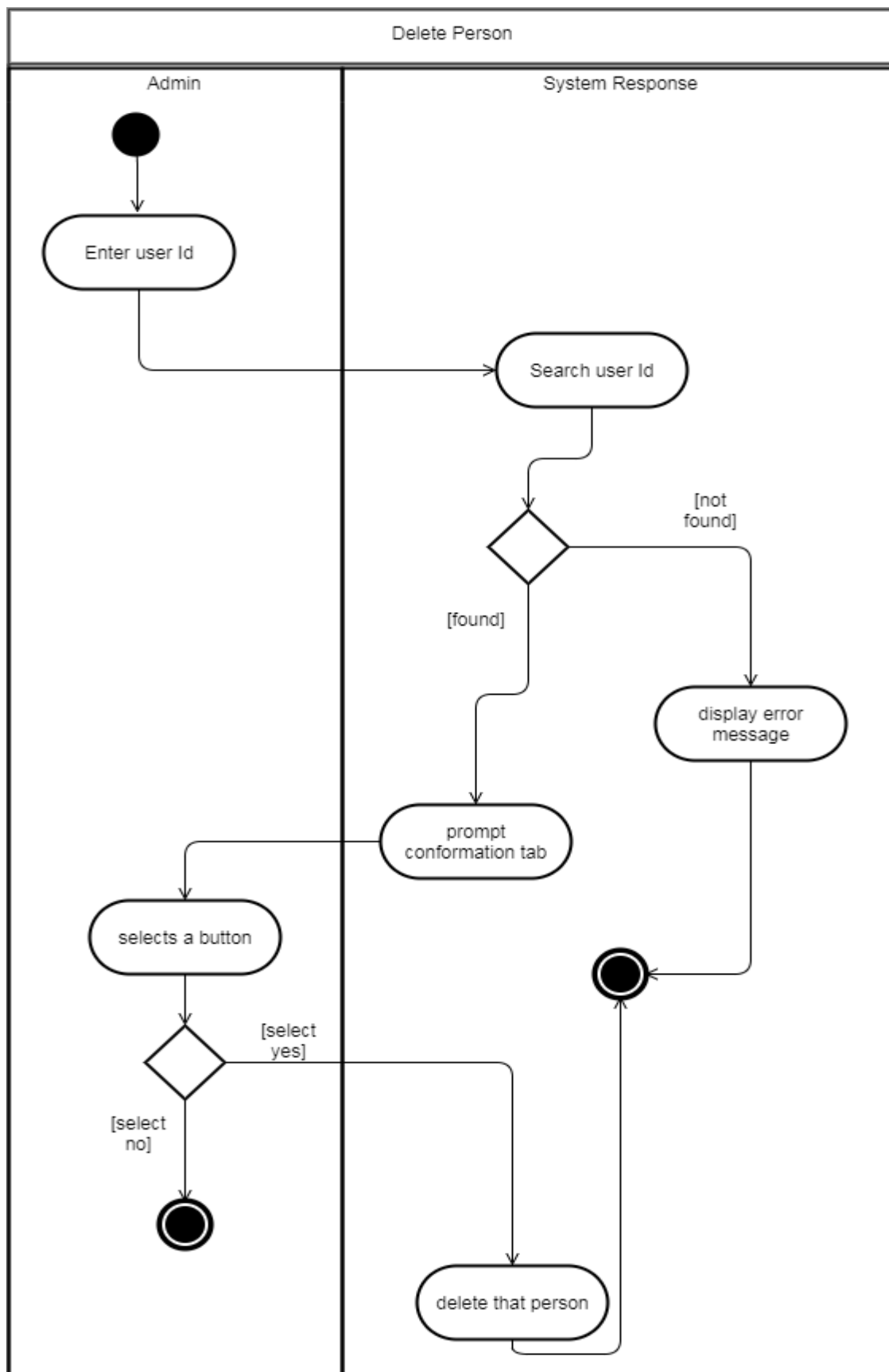
12. UC-12



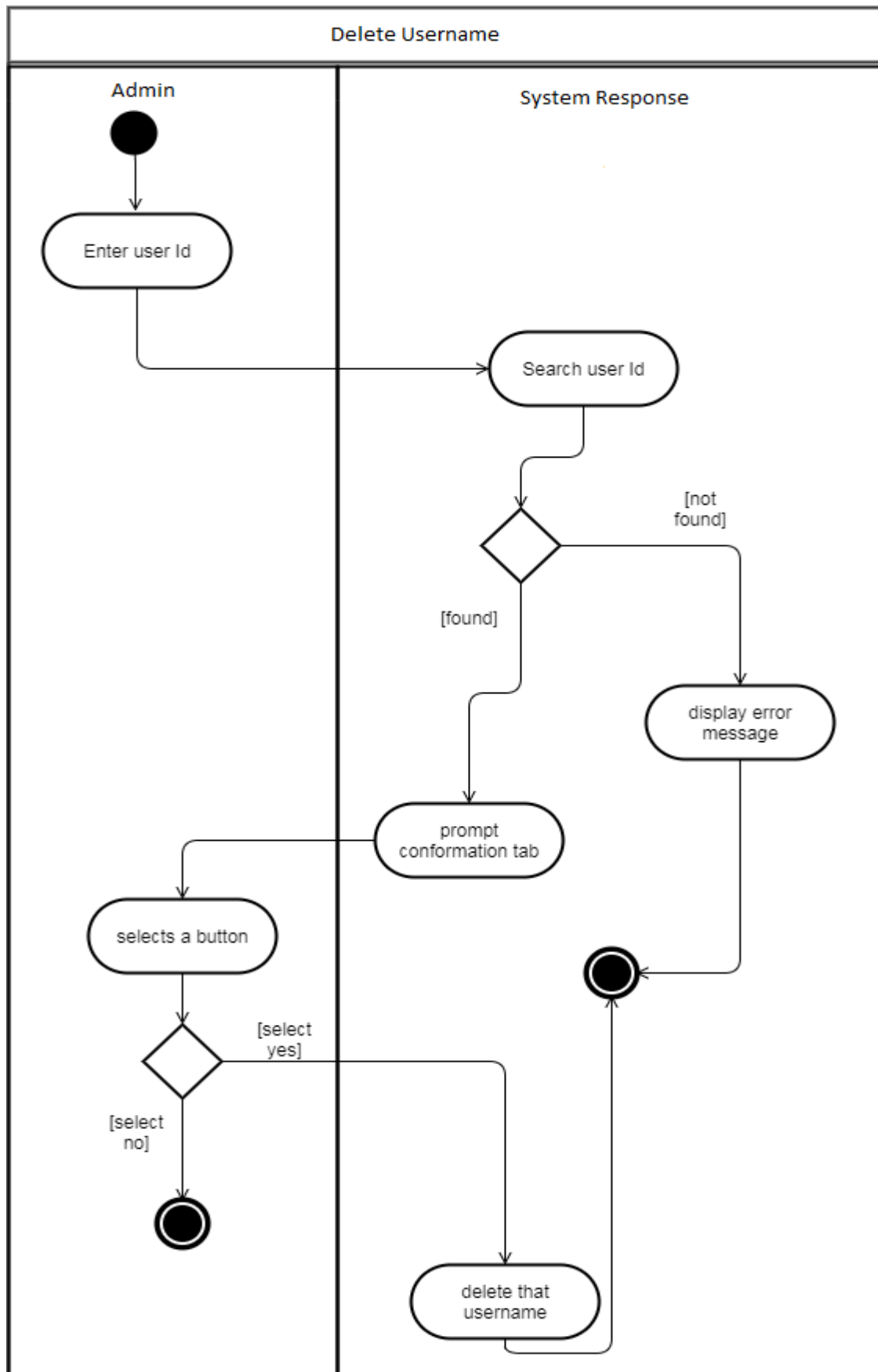
13.UC-13

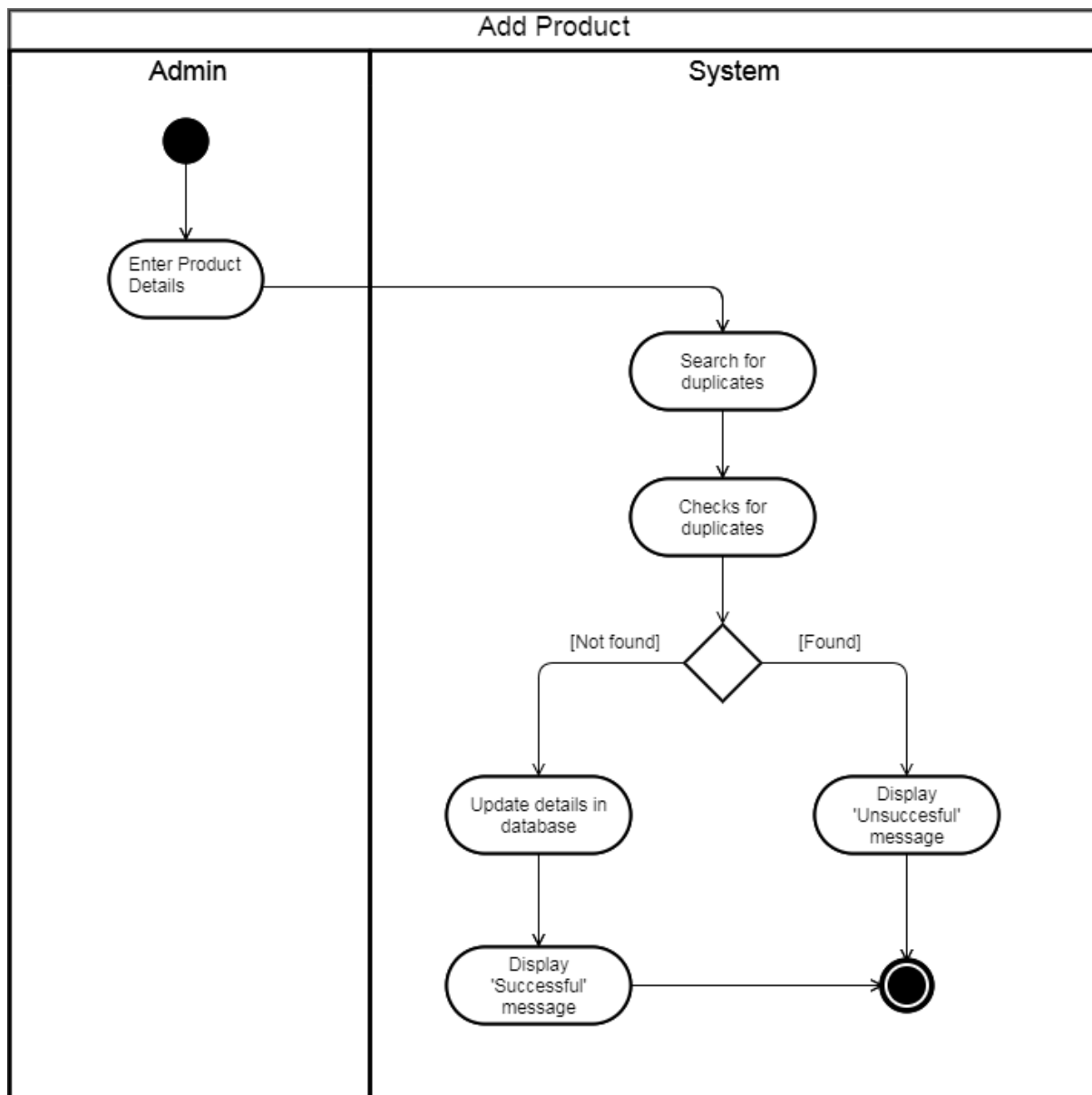


14. UC-14



15.UC-15



16.UC-16

17.UC-17

