

Object Oriented Analysis & Design
(ICT2133)
Level II - Semester I
Assignment 1

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1) The fully dressed format use case for **placing an order by using an online shopping system.**

Use Case Name:	Place an order in online shopping system
Description:	Customer (user) accesses the system and logs in to his existing account by providing credentials. User makes the payment and places an order and the system provides a tracking number and an estimated delivery date. At the end, the customer receives a confirmation mail with all the important information.
Primary Actor:	Customer
Scope:	System under design
Stakeholders:	User System Payment Gateway (Provided by bank) Delivery Subsystem
Preconditions:	System is waiting for the user to login.
Success Guarantee (Postconditions):	Customer made the order.
Main Success Scenario (Basic Flow):	<ol style="list-style-type: none"> 1. User gives the username and the password and clicks on the login button. 2. System checks the user credentials. 3. System allows the user to login and display the shopping page. 4. System allows the user to search through the site and select the products the user wants. 5. System adds the items which the user has selected to the shopping cart. 6. User clicks on the checkout button. 7. System displays a page for review of the items and total price which the user has added to the cart and allows the user to modify the cart if needed. 8. User clicks on the Proceed to checkout button. 9. Ask the user to choose a delivery address. 10. Ask the user a telephone number.

	<ul style="list-style-type: none"> 11. Give options to the user to make the payment. 12. User selects the pay by card option. 13. Ask users to enter payment details. 14. Validate the card and confirm it's a valid payable card. 15. Connect to the payment gateway which is matched according to the card details. 16. Proceed to the payment and confirm the payment was successful. 17. Show the user the success message. 18. Provide the tracking number and estimated delivery date to the user. 19. Send an item is in transit confirmation email to the user. 20. Send item and delivery details to the delivery subsystem.
Extensions (Alternative Flows):	<ul style="list-style-type: none"> 3a. System detects an mismatch <ul style="list-style-type: none"> - 3a1. Display login error message and ask to re enter credentials or reset the password. - 3a2. Request user's registered email and if email is matched then send the reset link to that email. -3a3. When the user clicked on reset link, show reset page and after resetting the password show the login page to user. 6a. User clicks on logout button <ul style="list-style-type: none"> - 6a1. Save the shopping cart for future reference and logout the user from the system and end the session. 8a. User clicks on Modify cart button <ul style="list-style-type: none"> - 8a1. Allow the user to search through the site and add items to the cart or remove items to the cart. - 8a2. The user clicks on the Checkout button. 12a. User selects the cash on delivery option. <ul style="list-style-type: none"> - 12a1. Ask the user to choose a delivery address. - 12a2. Ask the user a telephone number. - 12a3. Provide the tracking number and estimated delivery date to the user. - 12a3. Send an item is in transit confirmation email to the user.

- 12a4. Send item and delivery details to the delivery subsystem.

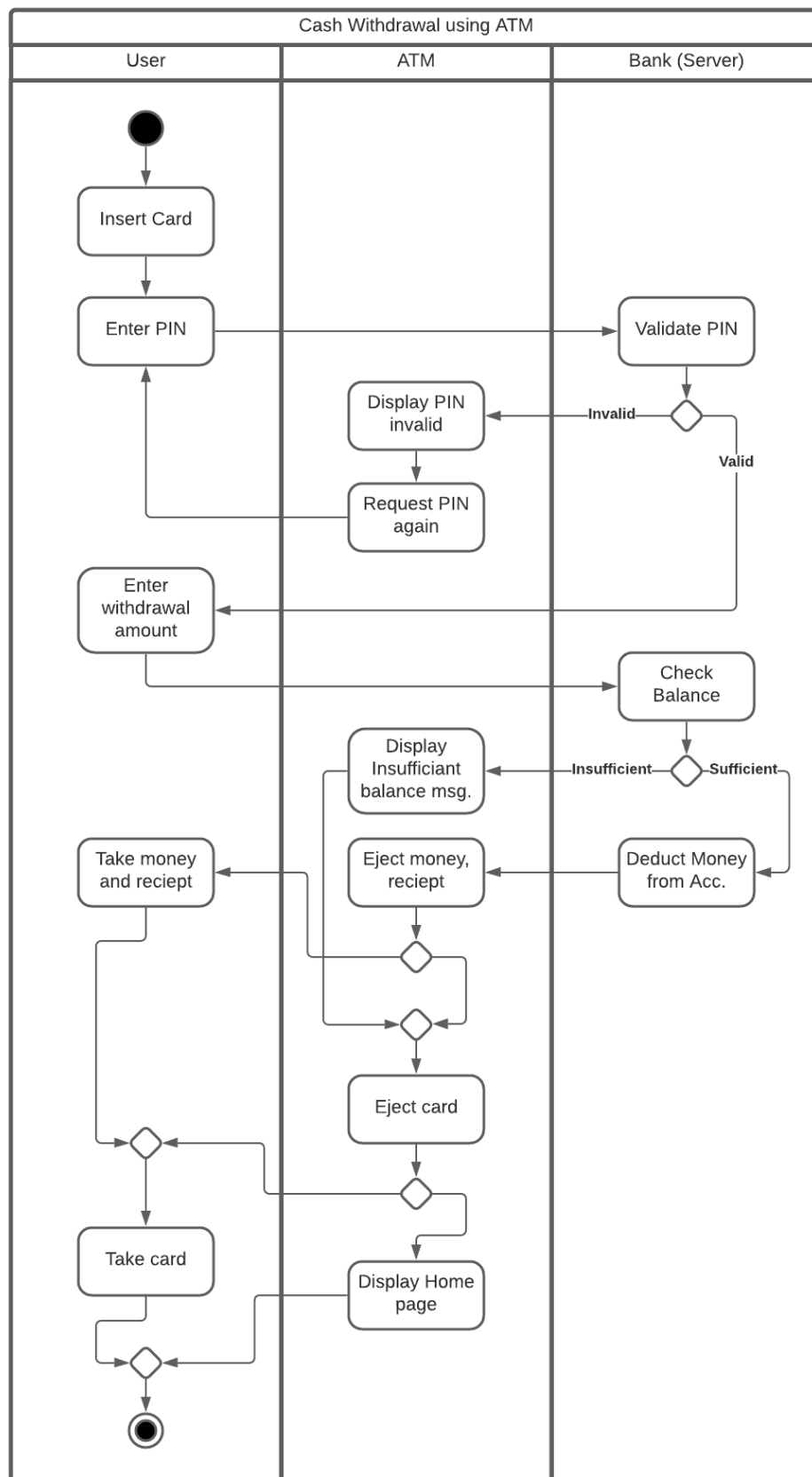
14a. Card details are invalid or there is an error processing the card.

- 14a1. Show an error message to the user and request to enter card details again.

- 14a2. Validate card again

T.P.O.

2) Activity diagram for **cash withdrawal** using an ATM



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