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Homework 5

Use Case

Withdraw Money

Precondition: This use case assumes that the customer has logged into the ATM.	
Actor: **ATM Customer**	**System**: **ATM**
	0) ATM displays the Transaction Selection screen
1) **TUCBW** customer presses the Withdraw button on the Transaction Selection screen.	2) ATM asks the customer to enter the amount to be withdrawn.
3) Customer enters the amount and presses the Submit button.	4) ATM displays a confirmation of the amount of cash dispensed, and dispenses the cash.
5) **TUCEW** customer presses the OK button on the confirmation dialog and gets the correct amount of cash dispensed.	

Scenario (9.10)

Note we assume that "display" is an atomic operation in the system

0	ATM displays the *Transaction Selection screen*
1	TUCBW customer presses *Withdraw Button on Transaction Selection Screen*
2.1	If customer has nonnegative balance
2.2.1	ATM displays *withdrawal amount input field*
2.2.3	ATM displays *submit button*
2.2	else
2.2.1	*ATM* displays *"Insufficient Funds"*
3.1	Customer enters the *amount to withdraw*
3.2	Customer presses the *Submit button*

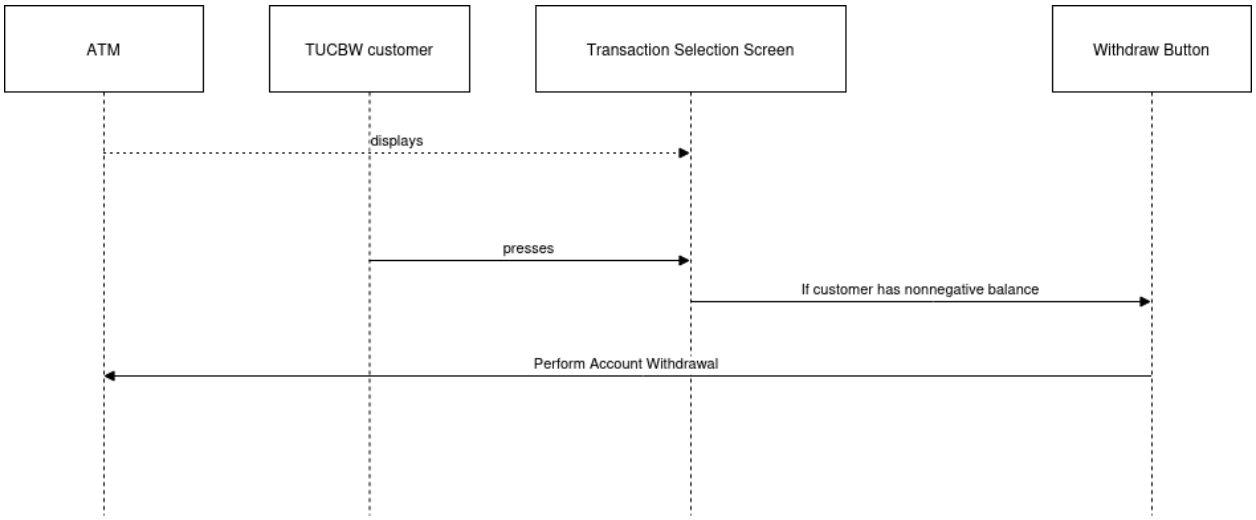
4.1	If amount to withdraw is less than or equal to account balance
4.1.2	ATM displays *customer confirmation*
4.1.3	If customer confirms
4.1.3.1	ATM dispenses *money*
4.1.4	else
4.1.4.1	ATM displays *"Have a nice day!"*
4.1.5	else
4.2	ATM displays *"Insufficient Funds"*
5.1	*ATM* displays *"OK" button*
5.2	If customer presses "OK" button
5.2.1	*ATM* gives *money* to customer
5.3	else
5.3.1	ATM takes back *money*
5.3.2	ATM displays *"Have a nice day!"*

Scenario Table (9.11)

#	Subject	Action	Other Data	Object Acted Upon
0	ATM	displays		Transaction Selection Screen
1	TUCBW customer	presses	Transaction Selection screen	Withdraw Button
2.1	If customer has nonnegative balance Account Balance			
2.2.1	ATM	displays		Withdrawal amount
2.2.3	ATM	displays		Submit button
2.2	else			

2.2.1	ATM	displays		"Insufficient Funds"
3.1	Customer	enters		Withdrawal Amount
3.2	Customer	presses		Submit button
4.1	If amount to withdraw is less than or equal to account balance			
4.1.2	ATM	displays		Customer confirmation
4.1.3	If customer confirms			
4.1.3.1	ATM	dispenses		money
4.1.4	else			
4.1.4.1	ATM	displays		"Have a nice day!"
4.1.5	else			
4.2	ATM	displays		"Insufficient Funds"
5.1	ATM	displays		"OK" button
5.2	If customer presses "OK" button			
5.2.1	ATM	gives	customer	money
5.3	else			
5.3.1	ATM	Takes back		money
5.3.2	ATM	displays		"Have a nice day!"

Informal/Analysis Sequence Diagrams (9.18)



Design Sequence Diagram (9.22)

