

Use Case Title	Withdraw Money from Account		
Version	0.5	Date	Aug. 5, 2004
Package	Transactions		
Summary	The customer wishes to withdraw some money from one of their accounts.		
Primary Actor	Customer		
Secondary Actors	Bank System		
Inherits			
Includes	...		
Extension Points	...		
Business Rules	<p>There is a daily limit on the withdrawal amount.</p> <p>The customer cannot break their account's overdraft rules.</p> <p>The customer can cancel up to the stage of confirming the withdrawal amount.</p> <p>Withdrawals can be made in combinations of \$20 and \$50 denomination notes.</p>		
Pre-condition(s)			

Typical Sequence of Events

Actor Stimulus	System Response
1. Customer inserts their card.	2. The ATM reads the card data and prompts for a PIN.
3. Customer enters their PIN.	4. The ATM sends the card number and PIN to the Bank to confirm customer identity.
5. The Bank System confirms that the card number and PIN is a valid match.	6. The ATM requests the customer to select a transaction.
7. Customer selects withdraw.	8. The ATM requests the customer to select an account.
9. Customer selects their account.	10. The ATM requests the customer to enter the amount to be withdrawn.
11. Customer enters the amount.	12. The ATM sends the transaction details to the Bank System for processing.
13. Bank System confirms the transaction is valid.	14. The ATM 14.1 ejects the card, 14.2 prints a receipt with the transaction details, 14.3 provides the customer with the requested amount of money.

Post-condition(s)	<p>The money has been given to the customer from the ATM.</p> <p>The transaction has been recorded.</p> <p>The customer's account has been updated.</p>
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Priority	Highest
Outstanding Issues	
Author	Richard Thomas

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Alternative Sequences of Events

Alternative 1: Invalid Card at step 1

Actor Stimulus	System Response
1. Customer inserts their card.	2.1 The ATM cannot read or interpret the card data, 2.2 it displays the invalid card error message and 2.3 ejects the card

Alternative 2: Expired Card at step 1

Actor Stimulus	System Response
1. Customer inserts their card.	2.1 The ATM reads the card data and determines that its expiry date is before the current date. 2.2 It displays the expired card error message and 2.3 ejects the card.

Alternative 3: Cancelled Card at step 1

Actor Stimulus	System Response
...	

Alternative 4: Invalid PIN at step 3

Actor Stimulus	System Response
3. Customer enters an invalid PIN.	4. The ATM sends the card number and PIN to the Bank to confirm customer identity.
5. The Bank System reports that the card number and PIN do not match.	6.1 The ATM displays the invalid PIN error message and 6.2 prompts the customer to re-enter their PIN. 6.3 The ATM keeps track of how many attempts the customer makes to enter the correct PIN.

Alternative 5: Too Many Invalid PIN Attempts at step 3

Actor Stimulus	System Response
...	

Alternative 6: ... at step

Actor Stimulus	System Response