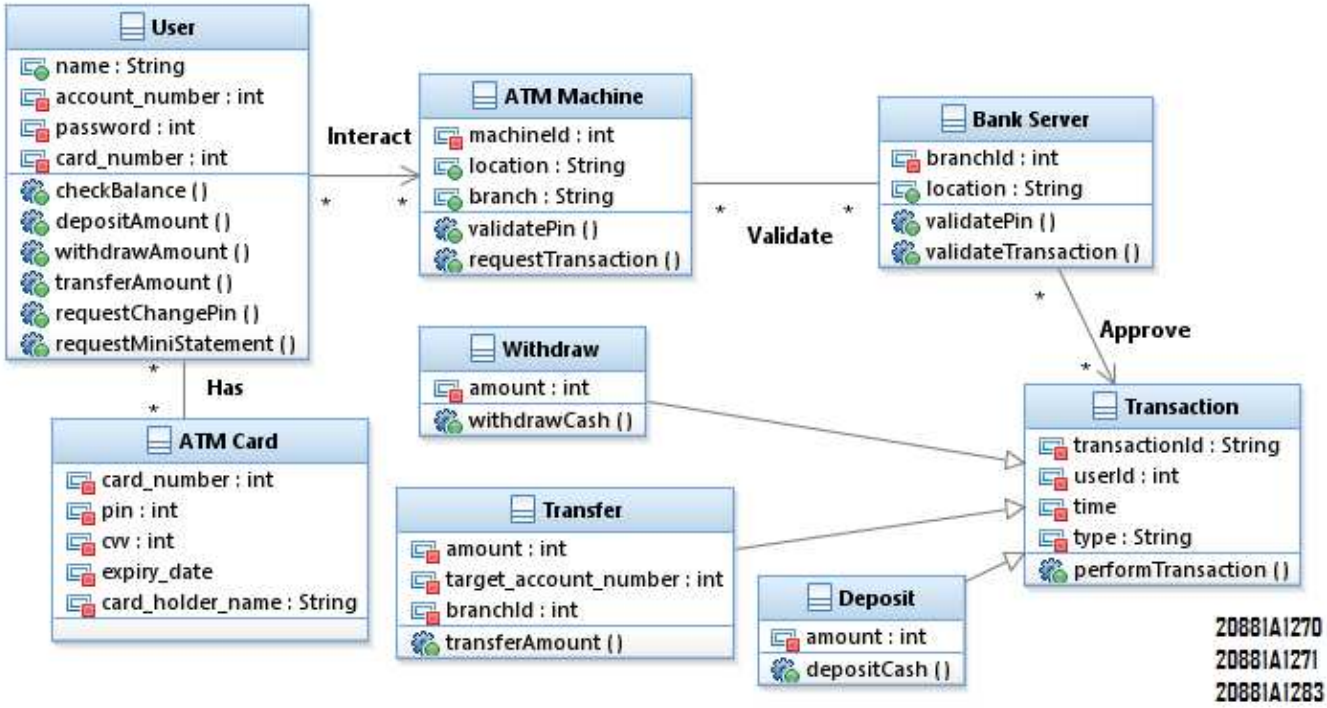
Automated Teller Machine [Class Diagram]



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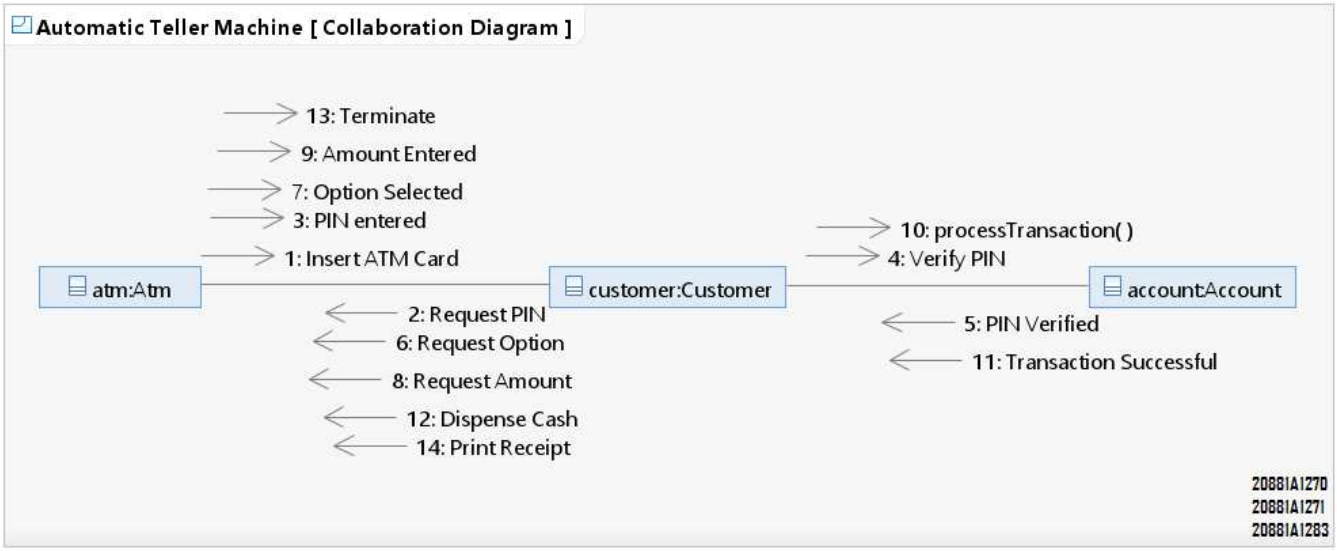
Automatic Teller Machine [Collaboration Diagram]
13: Terminate
9: Amount Entered
7: Option Selected
3: PIN entered
1: Insert ATM Card
10: processTransaction( )
4: Verify PIN
atm:Atm
customer:Customer
account:Account
2: Request PIN
6: Request Option
8: Request Amount
12: Dispense Cash
14: Print Receipt
5: PIN Verified
11: Transaction Successful
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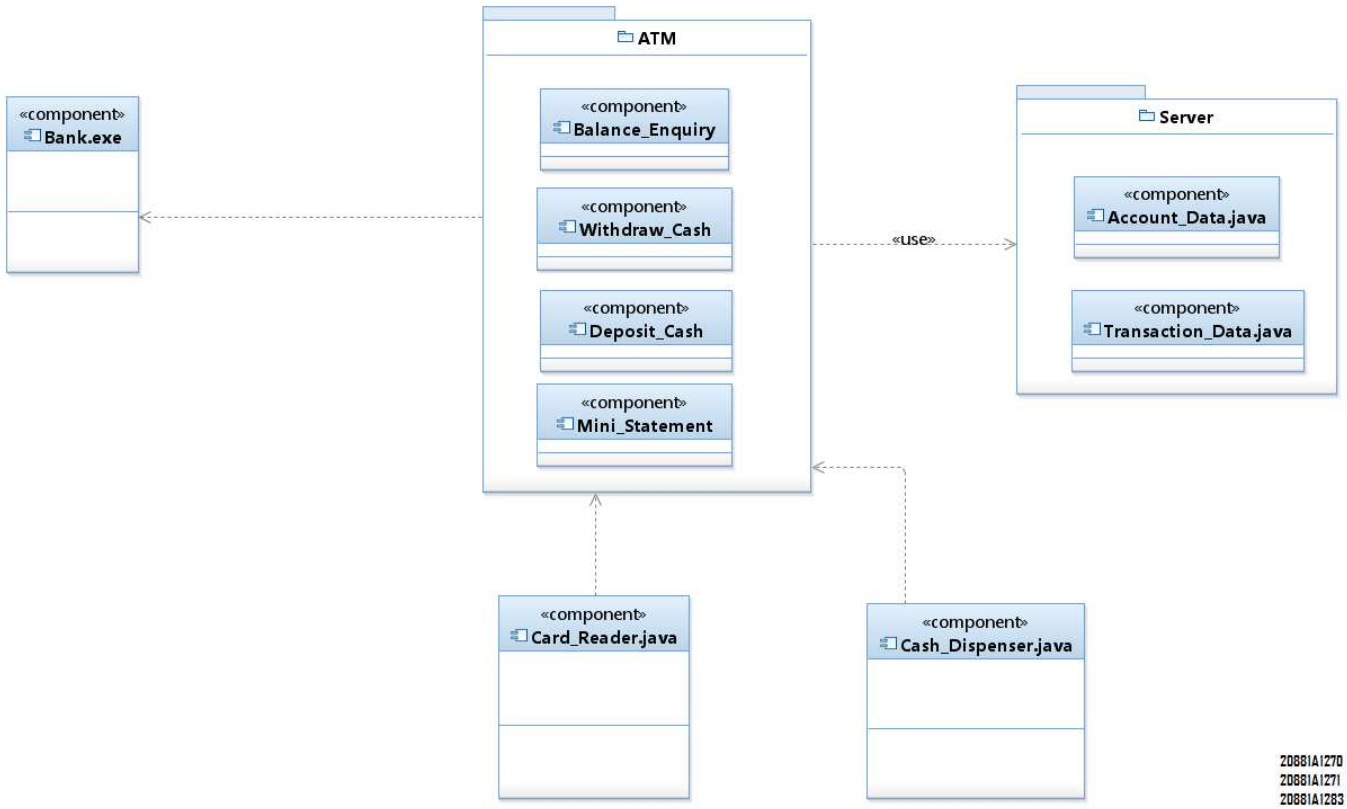
Automated Teller Machine [Component Diagram]



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Automated Teller Machine [Deployment Diagram]

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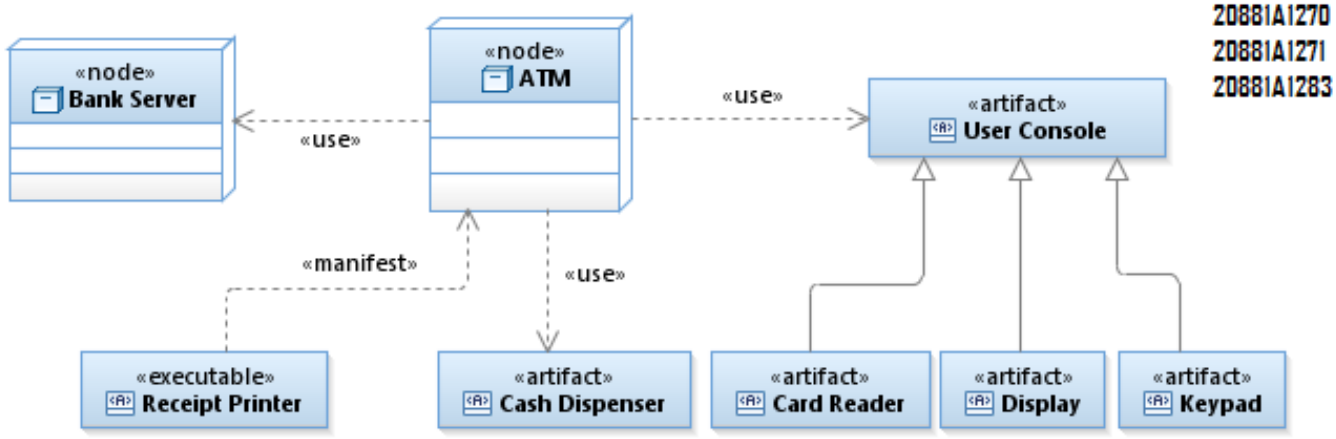
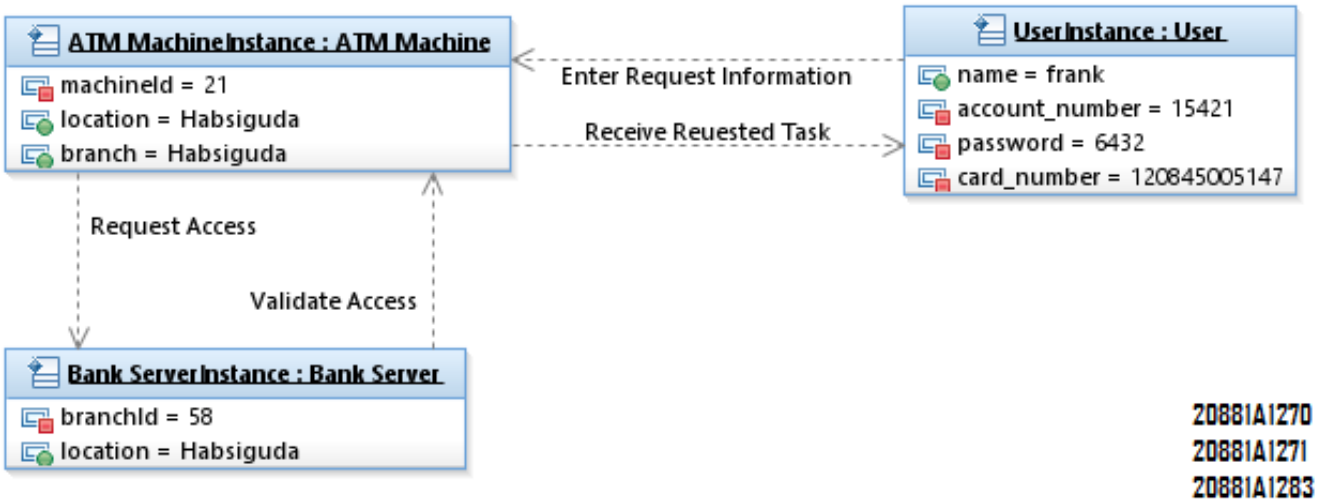


Automated Teller Machine [Object Diagram]



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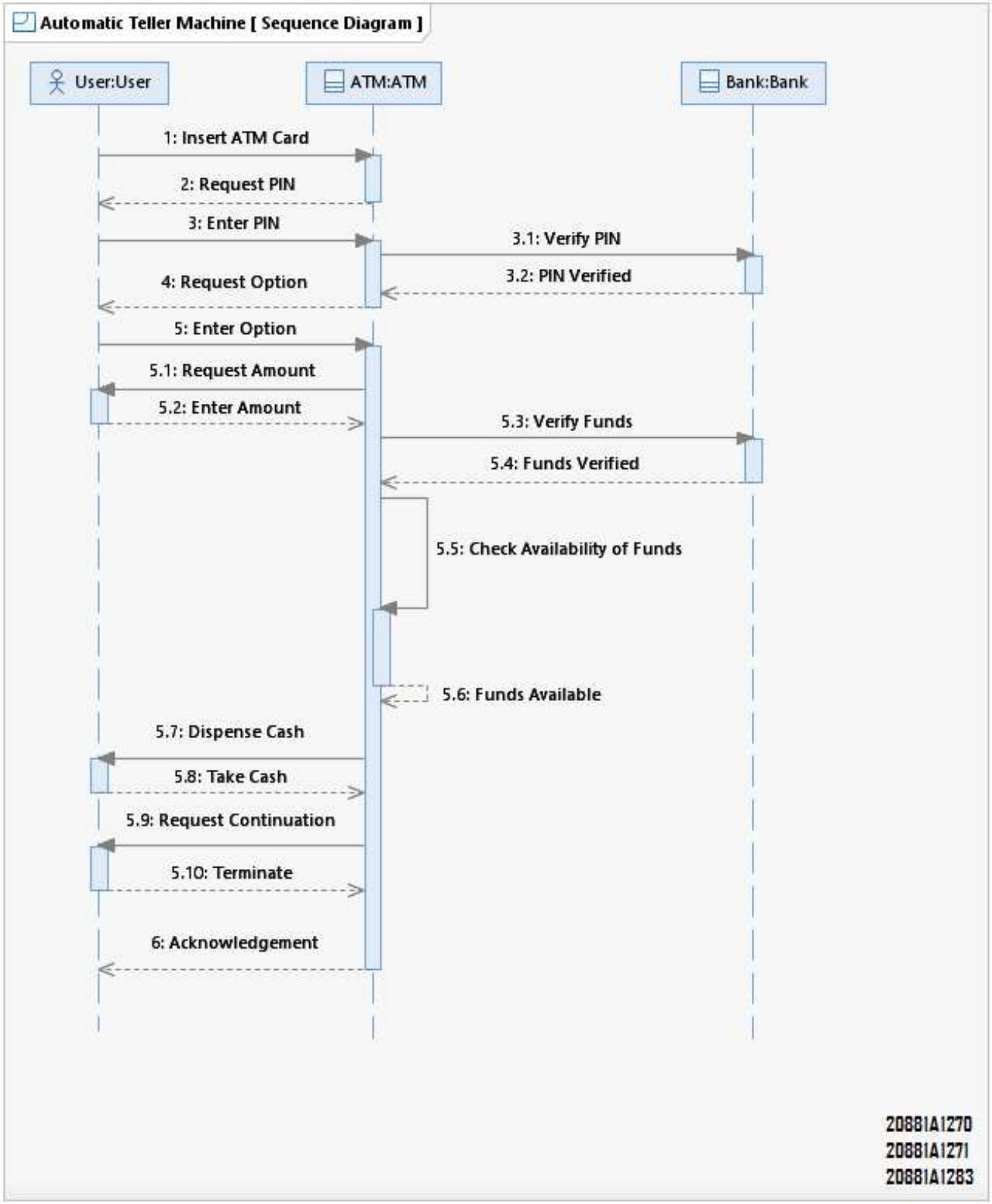
Automatic Teller Machine [Sequence Diagram]
User:User
ATM:ATM
Bank:Bank
1: Insert ATM Card
2: Request PIN
3: Enter PIN
3.1: Verify PIN
3.2: PIN Verified
4: Request Option
5: Enter Option
5.1: Request Amount
5.2: Enter Amount
5.3: Verify Funds
5.4: Funds Verified
5.5: Check Availability of Funds
5.6: Funds Available
5.7: Dispense Cash
5.8: Take Cash
5.9: Request Continuation
5.10: Terminate
6: Acknowledgement
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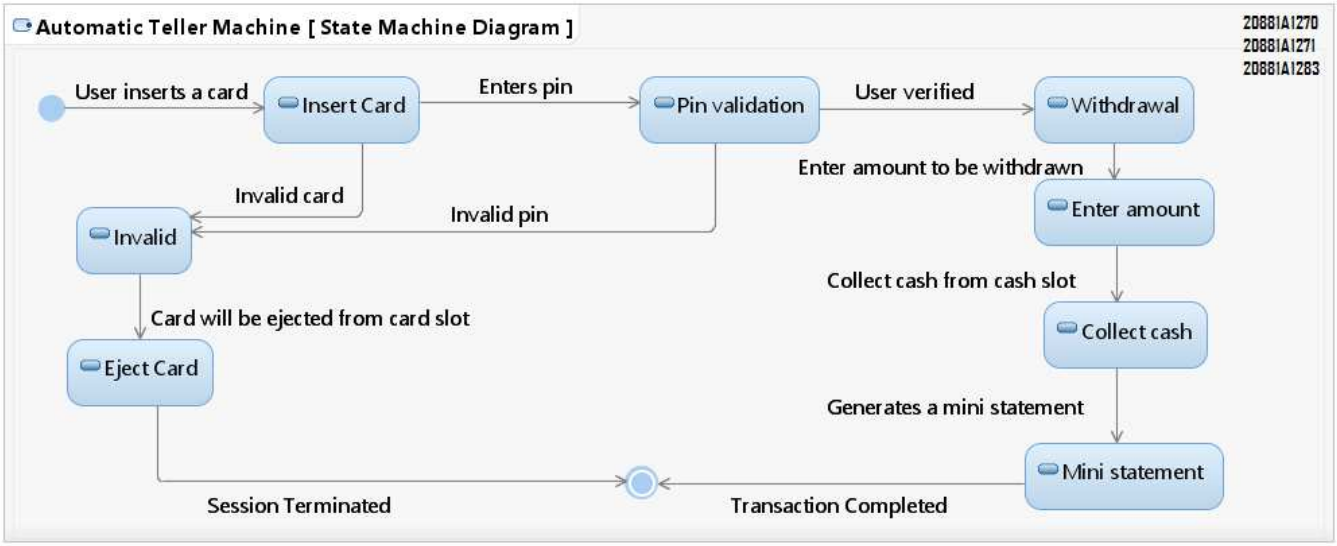
20881A1283


Automatic Teller Machine [State Machine Diagram]
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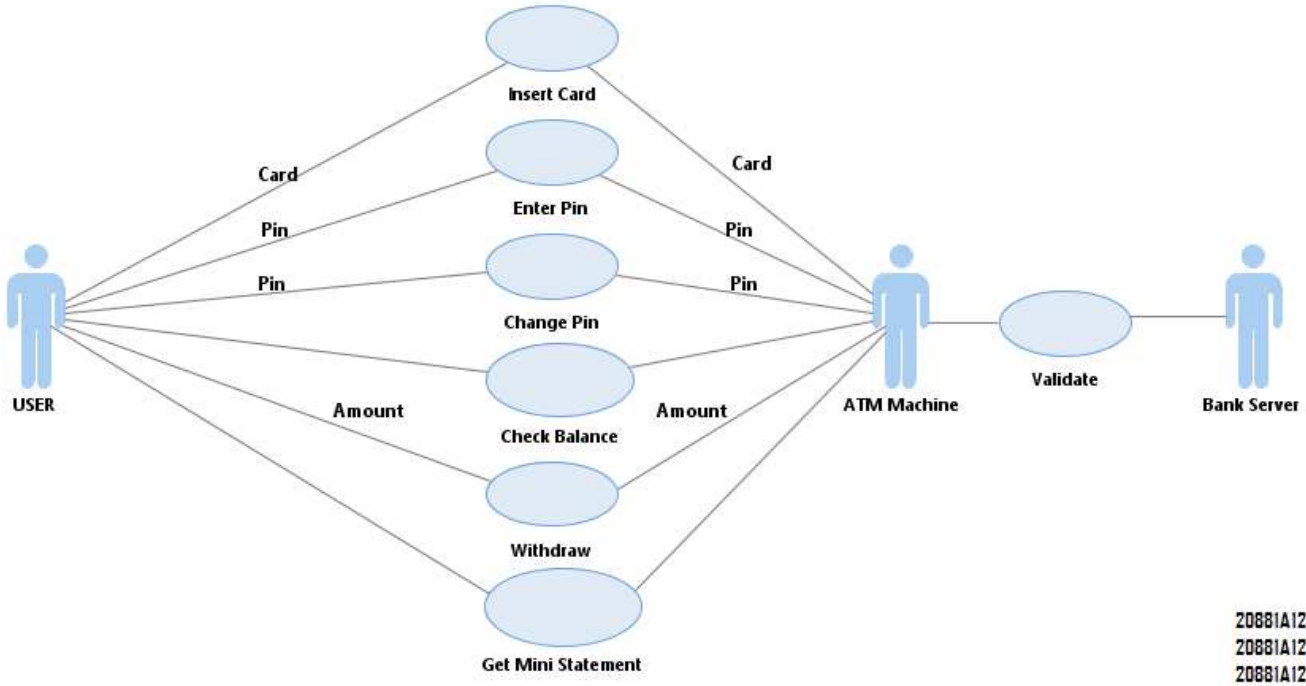
User inserts a card
Insert Card
Enters pin
Pin validation
User verified
Withdrawal
Enter amount to be withdrawn
Enter amount
Invalid card
Invalid pin
Invalid
Collect cash from cash slot
Collect cash
Card will be ejected from card slot
Eject Card
Generates a mini statement
Mini statement
Session Terminated
Transaction Completed

Automated Teller Machine [Use Case Diagram]



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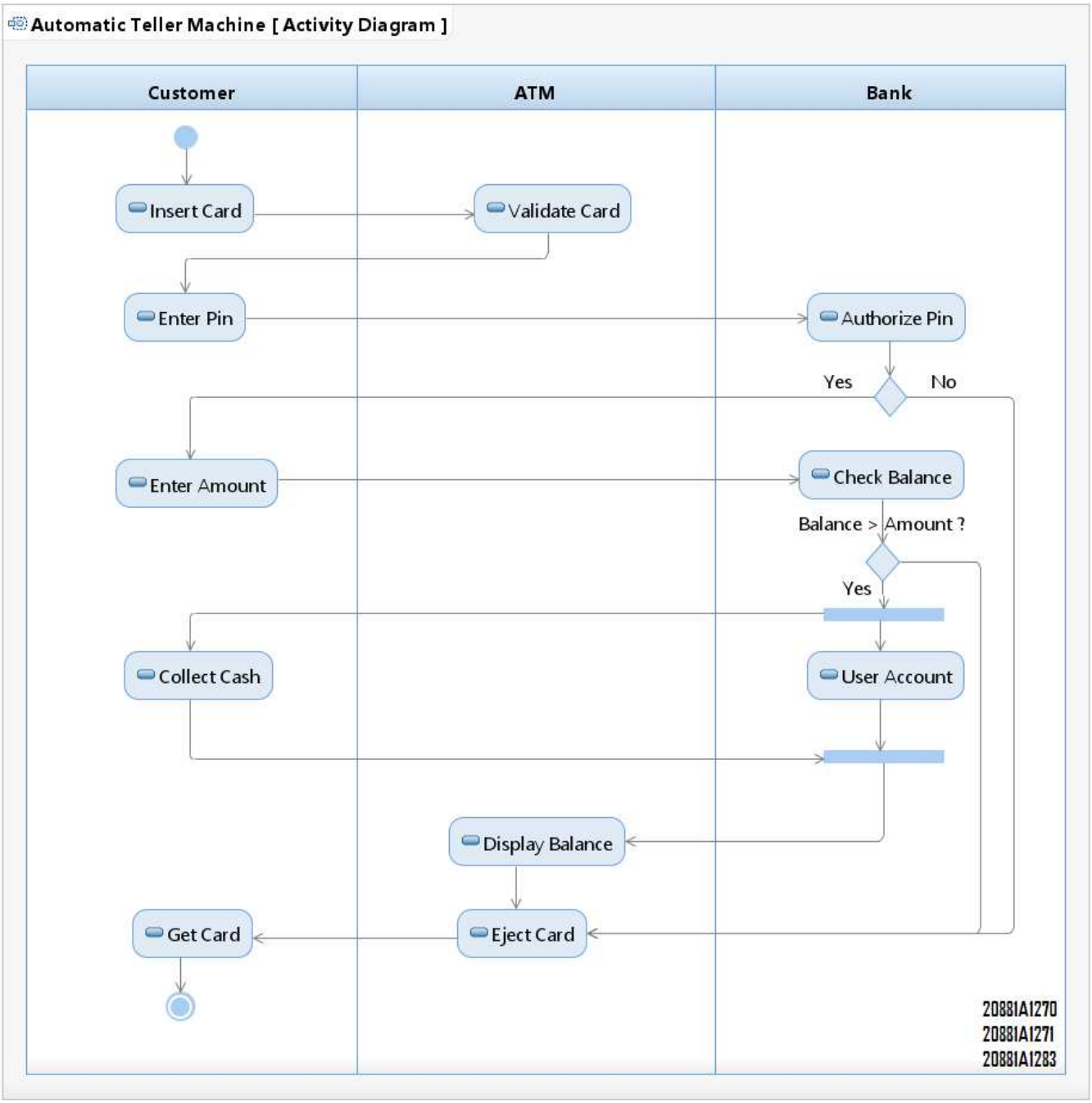
Automatic Teller Machine [Activity Diagram]
Customer
ATM
Bank
Insert Card
Validate Card
Enter Pin
Authorize Pin
Yes
No
Enter Amount
Check Balance
Balance > Amount ?
Yes
Collect Cash
User Account
Display Balance
Get Card
Eject Card
20881A1270
20881A1271
20881A1283