

SE Practical 04

1. Prepare state the precondition, post condition and function of each use case for the specified Case Study.

For ATM Machine:

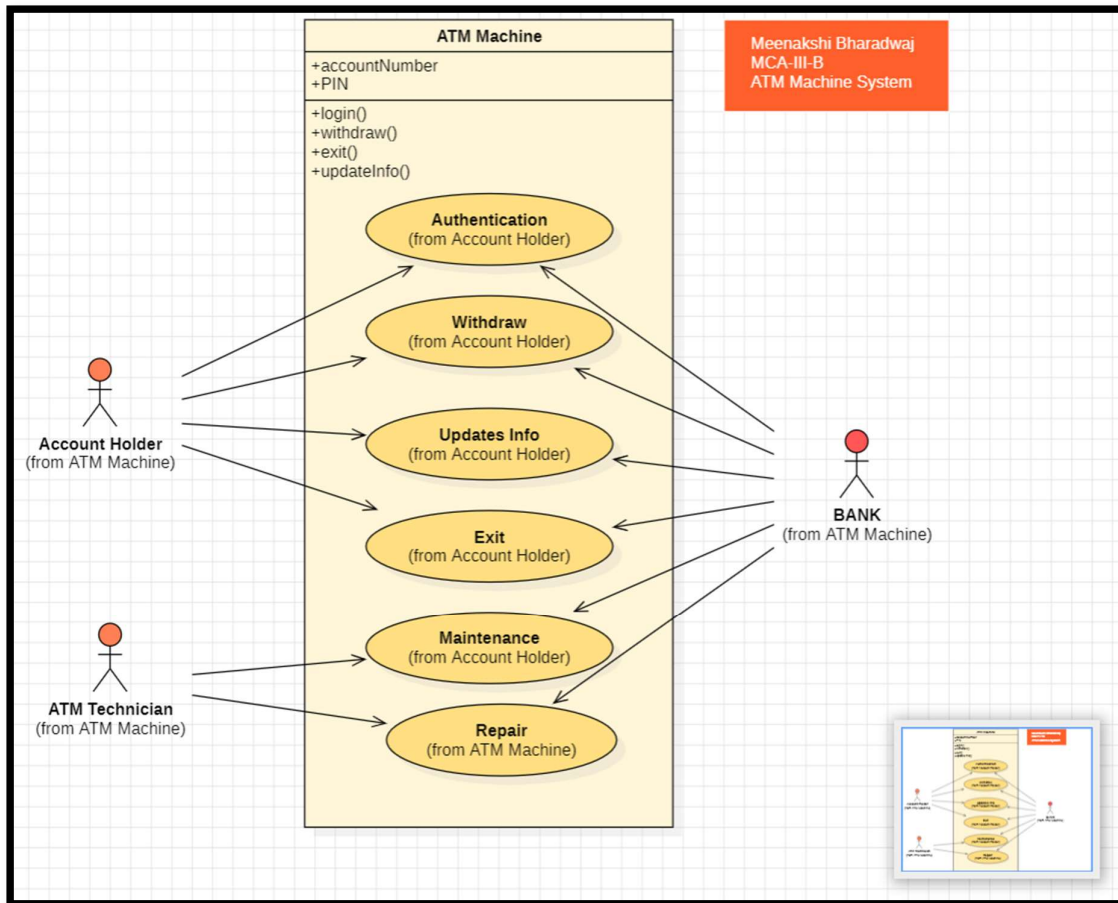


Figure 1: ATM Machine System

Use Cases	Precondition	Postcondition	Function
Use Case 1: Cash Withdrawal	Customer has a valid ATM card and sufficient funds in their account.	Customer receives the requested amount of cash from the ATM.	Allows customers to withdraw cash from their bank accounts using an ATM.
Use Case 2: Balance Inquiry	Customer has a valid ATM card.	Customer receives their current account balance on the ATM screen.	Enables customers to check their account balance using an ATM.

Use Case 3: Cash Deposit	Customer has a valid ATM card and cash to deposit.	Cash is deposited into the customer's account and a receipt is printed (if applicable).	Allows customers to deposit cash into their bank accounts using an ATM.
Use Case 4: Transfer Funds	Customer has a valid ATM card and sufficient funds in their account.	Funds are transferred from the customer's account to the specified recipient's account.	Enables customers to transfer funds between their own accounts or to other accounts using an ATM.
Use Case 5: Mini Statement	Customer has a valid ATM card.	Customer receives a mini-statement of their recent transactions on the ATM screen.	Allows customers to view a summary of their recent account activity using an ATM.
Use Case 6: PIN Change	Customer has a valid ATM card.	Customer's ATM PIN is successfully changed.	Enables customers to update their ATM PIN for security purposes.
Use Case 7: Card Block/Unblock	Customer has a valid ATM card.	Customer's ATM card is blocked or unblocked as requested.	Provides customers with the option to temporarily block or unblock their ATM cards.

For E-Voting System:

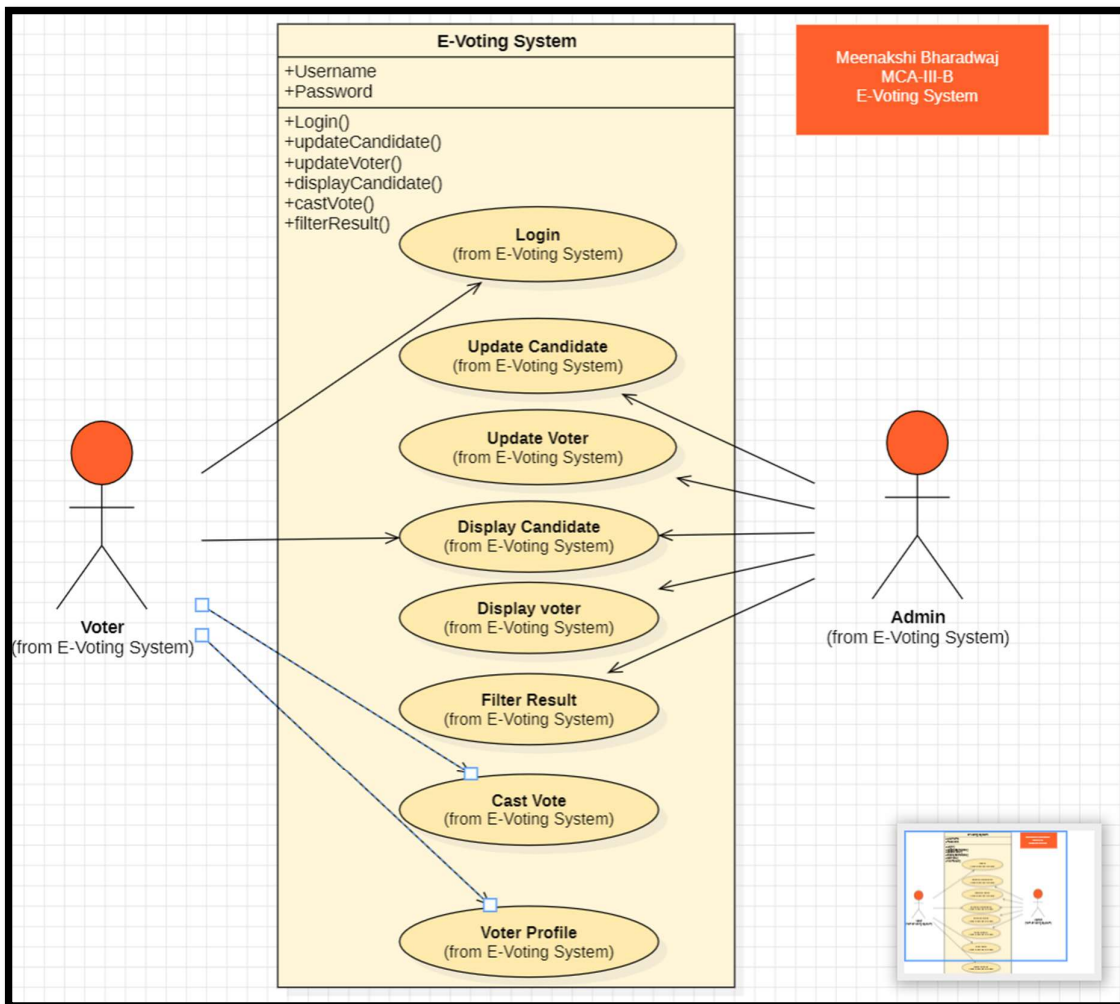


Figure 2: E-Voting System

Use Cases	Precondition	Postcondition	Function
Use Case 1: Voter Registration	Potential voter has not yet registered to vote.	Voter's information is successfully added to the voter database.	Allows individuals to register as eligible voters for elections.
Use Case 2: Voter Verification	Voter has registered to vote and is attempting to cast a ballot.	Voter's identity is verified and they are granted access to the voting system.	Ensures that only registered voters can cast ballots and prevents fraudulent voting.

Use Case 3: Ballot Access	Voter has been verified and is eligible to vote.	Voter is presented with the ballot for the election they are participating in.	Provides voters with the opportunity to view and select their preferred candidates or options.
Use Case 4: Ballot Casting	Voter has selected their preferred candidates or options.	Voter's ballot is securely recorded and stored in the voting system.	Allows voters to submit their votes electronically.
Use Case 5: Result Calculation	All ballots have been cast and verified.	Election results are calculated and tabulated.	Determines the winners of the election based on the number of votes received by each candidate or option.
Use Case 6: Result Publication	Election results have been calculated.	Election results are made public and accessible to voters and the general public.	Informs voters and the public about the outcome of the election.
Use Case 7: Audit and Verification	Election results have been published.	Election results are audited and verified for accuracy and integrity.	Ensures that the election process was fair and transparent and that the results accurately reflect the will of the voters.