

Functional Requirements Specification

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Stakeholders

1. **Customers:** The users of the ATM system.
2. **Bank Staff:** Administrators and those responsible for working directly with the ATM systems. Workers who use ATM data to monitor performance.
3. **Maintenance Technicians:** Workers responsible for maintaining and repairing the ATM machines.

Actors and Goals

Primary actors:

1. Customers:

- **Goals:** Login, withdraw cash, deposit funds, check account balance, change PIN, transfer money between accounts.

2. ATM Technicians:

- **Goals:** Perform routine maintenance, diagnose, update software, and ensure ATMs are operational.

Secondary actors:

3. Bank Staff:

- **Goals:** Configure ATM settings, set transaction fees, generate reports on usage and transactions.

Use Cases

Customer (total: 11)

- **Withdraw Cash:**
 - Allows customers to withdraw cash from their bank accounts using the ATM. (2)
- **Deposit Funds:**
 - Enables customers to deposit funds into their bank accounts using the ATM. (2)
- **Check Account Balance:**
 - Allows customers to check the balance of their bank accounts through the ATM. (1)
- **Change PIN:**
 - Permits customers to change the Personal Identification Number (PIN) associated with their bank accounts. (1)
- **Transfer Money:**
 - Facilitates the transfer of funds between different bank accounts using the ATM. (2)
- **View Transaction History:**
 - Enables customers to view a history of recent transactions performed through the ATM. (2)
- **Login:**
 - Enables customers to access their account and ATM functionality. (1)

Bank Staff (total: 12)

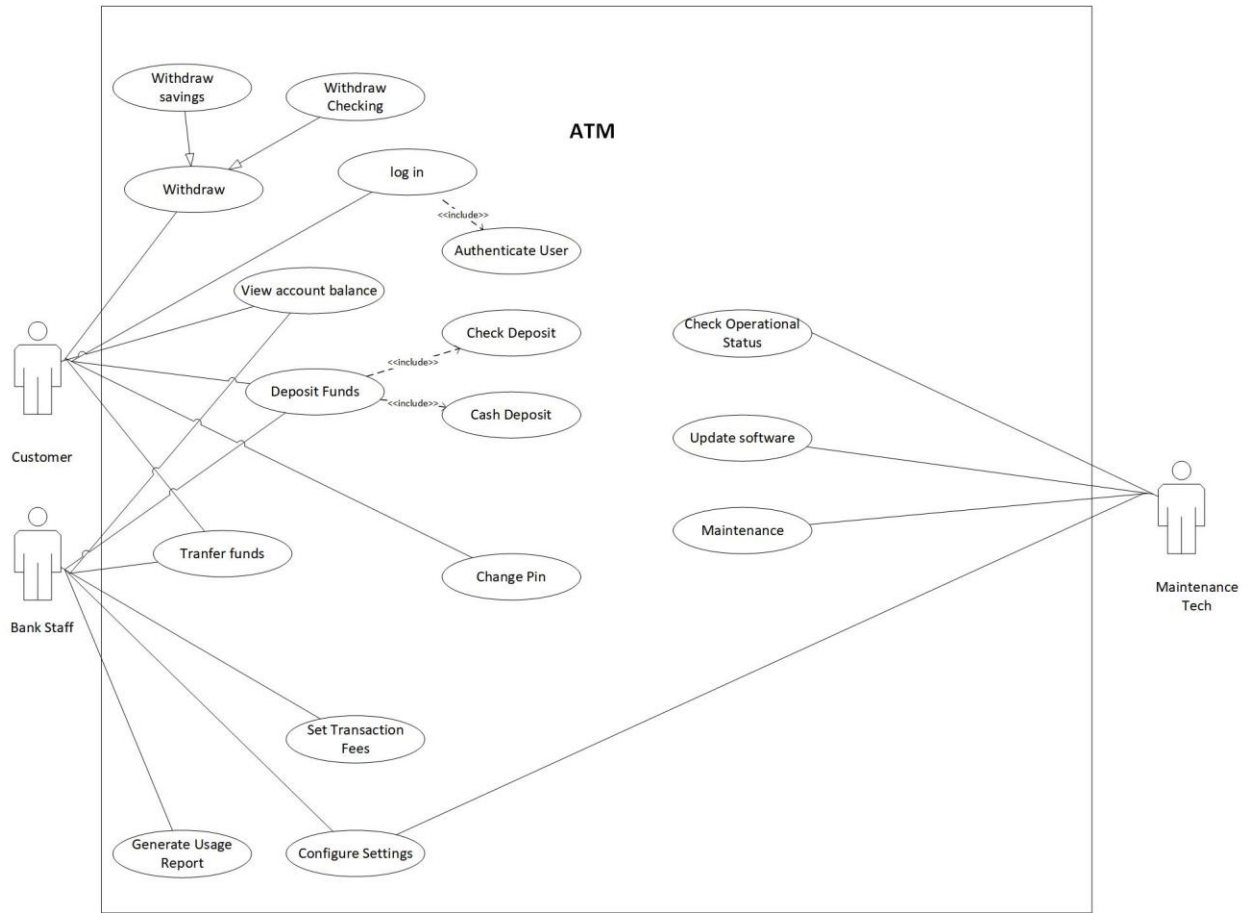
- **Monitor System Performance:**
 - Allows bank management to ensure the status of the entire ATM system. (3)
- **Configure ATM Settings:**

- Permits bank management to configure settings related to ATM operations like setting withdraw limits. (3)
- **Generate Transaction Reports:**
 - Enables the generation of reports detailing ATM usage, transaction volumes, and other relevant metrics. (4)
- **Set Transaction Fees:**
 - Determining the fees associated with different ATM transactions and services. (2)

ATM Technician (total: 4)

- **Update Software:**
 - Involves updating the software running on the ATMs to ensure the latest features and security patches. (4)

Use Case Diagram



Class Diagram

