**ATM System Use Cases**

**Use Case: Login**

* **Actor(s):** Customer, Bank
* **Description:** The customer inserts the card and enters the PIN to access ATM services.
* **Preconditions:** The ATM is powered on and connected to the bank.
* **Flow of Events:**
  1. The customer inserts the card.
  2. The ATM prompts for a PIN.
  3. The customer enters the PIN.
  4. The ATM verifies the PIN with the bank.
  5. If successful, the customer proceeds; otherwise, an error is shown.
* **Postconditions:** The customer is logged in or access is denied.

**Use Case: Withdraw Cash**

* **Actor(s):** Customer, Bank
* **Description:** The customer withdraws cash from the account.
* **Preconditions:** The customer must be authenticated.
* **Flow of Events:**
  1. The customer selects "Withdraw Cash."
  2. The ATM prompts for an amount.
  3. The customer enters an amount.
  4. The ATM verifies the balance.
  5. If funds are available, cash is dispensed.
  6. The account balance is updated.
* **Postconditions:** The requested amount is deducted from the account.

**Use Case: Deposit Cash**

* **Actor(s):** Customer, Bank
* **Description:** The customer deposits money into the account.
* **Preconditions:** The customer must be authenticated.
* **Flow of Events:**
  1. The customer selects "Deposit Cash."
  2. The ATM prompts for deposit type (cash/check).
  3. The customer inserts money.
  4. The ATM validates the deposit.
  5. The account balance is updated.
* **Postconditions:** The deposited amount is added to the account.

**Use Case: Check Balance**

* **Actor(s):** Customer, Bank
* **Description:** The customer views the available balance.
* **Preconditions:** The customer must be authenticated.
* **Flow of Events:**
  1. The customer selects "Check Balance."
  2. The ATM fetches account details from the bank.
  3. The balance is displayed on-screen.
* **Postconditions:** No changes in the account, only information retrieval.

**Use Case: Maintain ATM**

* **Actor(s):** ATM Technician
* **Description:** The technician repairs or refills the ATM.
* **Preconditions:** The technician must have authorized access.
* **Flow of Events:**
  1. The technician logs in.
  2. The technician selects maintenance options (e.g., cash refill, software update).
  3. The ATM performs the selected maintenance task.
  4. The technician logs out.
* **Postconditions:** The ATM is refilled, repaired, or updated.

**Use Case: Exit**

* **Actor(s):** Customer
* **Description:** The customer safely exits the ATM session.
* **Preconditions:** The customer has completed or cancelled a transaction.
* **Flow of Events:**
  1. The customer selects "Exit."
  2. The ATM logs the customer out.
  3. The ATM ejects the card (if applicable).
  4. The session is terminated.
* **Postconditions:** The customer is logged out, and the session is closed.