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## ATM MACHINE

| **Type** | **Category / Functionality** | **Requirement Description** |
| --- | --- | --- |
| **Functional** | User Authentication | Allow users to insert a card and enter a PIN for authentication; validate card and PIN against bank records. |
| **Functional** | Cash Withdrawal | Allow users to withdraw cash in available denominations; check account balance before dispensing cash. |
| **Functional** | Balance Inquiry | Allow users to view their current account balance. |
| **Functional** | Deposit Money | Accept cash and check deposits; update user account balance accordingly. |
| **Functional** | Funds Transfer | Enable transfer of money between accounts (e.g., savings to checking). |
| **Functional** | Mini Statement / Transaction History | Allow users to view or print a mini statement of recent transactions. |
| **Functional** | PIN Change | Allow users to securely change their PIN. |
| **Functional** | Card Ejection | Eject the card after transaction completion or after a timeout. |
| **Functional** | Session Timeout | Log out users after a specified period of inactivity. |
| **Functional** | Error Handling | Display appropriate messages for invalid PINs, insufficient funds, card errors, etc. |
| **Non-Functional** | Performance | Complete transactions within 10 seconds; response time for balance inquiry less than 5 seconds. |
| **Non-Functional** | Availability | ATM should be operational 99.9% of the time (24/7). |
| **Non-Functional** | Security | Communications must be encrypted; comply with PCI-DSS; prevent unauthorized access and skimming attacks. |
| **Non-Functional** | Usability | User interface should be simple, multilingual, and easy to navigate. |
| **Non-Functional** | Logging and Monitoring | All transactions must be logged for auditing and fraud detection; alert bank when cash is low or if there is a fault. |