**ATM MACHINE**

**Functional and Non Functional Requirements**

| **Type** | **Requirement** | **Description** |
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| **Functional** | 1. User Authentication | The system must verify the user through a valid ATM card and PIN. |
| **Functional** | 2. Account Selection | The system must allow users to choose the account type (Savings or Current). |
| **Functional** | 3. Balance Inquiry | The system must allow users to check their current account balance. |
| **Functional** | 4. Cash Withdrawal | The system must allow users to withdraw a specified amount of money from their account. |
| **Functional** | 5. Withdrawal Limit Validation | The system must ensure that the withdrawal amount does not exceed the daily limit or available balance. |
| **Functional** | 6. Transaction Processing | The system must deduct the withdrawn amount from the user’s account and update the database. |
| **Functional** | 7. Receipt Printing | The system must print a receipt showing transaction details (amount withdrawn, remaining balance, date, and time). |
| **Functional** | 8. Cash Dispensing | The system must dispense the requested amount of cash through the ATM dispenser. |
| **Functional** | 9. Error Handling | The system must display appropriate error messages for invalid PINs, insufficient balance, or machine faults. |
| **Functional** | 10. Session Termination | The system must automatically end the session and eject the card after a period of inactivity or transaction completion. |
| **Non-Functional** | 1. Security | The system must protect user PINs, account data, and transactions using encryption. |
| **Non-Functional** | 2. Availability | The ATM system should be operational 24/7 with minimal downtime. |
| **Non-Functional** | 3. Reliability | The system must ensure accurate and consistent transaction processing. |
| **Non-Functional** | 4. Performance | Each transaction (including cash dispensing) should complete within a few seconds. |
| **Non-Functional** | 5. Usability | The ATM interface should be user-friendly and easily navigable for all customers. |