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**ATM MACHINE APP**

**Functional Requirements:**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| | **#** | **Requirement Title** | **Description** | | --- | --- | --- | | FR-01 | User Authentication | The system must verify the user's PIN before accessing any ATM features. | | FR-02 | Cash Withdrawal | The user should be able to withdraw a specific amount, and the balance must be updated accordingly. | | FR-03 | Balance Inquiry | The system must display the user's current available account balance. | | FR-04 | PIN Change | The user should be able to securely change/update their ATM PIN. | | FR-05 | Mini Statement | The ATM should display a short transaction history (e.g., last five transactions). | | FR-06 | Cash Deposit *(Optional)* | The user should be able to deposit money and see the updated balance. | | FR-07 | Session Timeout/Exit | The system must automatically log out after inactivity or when the user exits the session. | |  |
| **NON-FUNCTIONAL REQUIREMENTS:** |  |
| | **#** | **Requirement Title** | **Description** | | --- | --- | --- | | NFR-01 | Security | User PIN and data must be encrypted and never displayed in plain text. | | NFR-02 | Performance | Each transaction (withdraw, check balance, etc.) should be completed within 2–3 seconds. | | NFR-03 | Usability | The interface must be simple, user-friendly, and easy to understand for all users. | | NFR-04 | Reliability | The system should perform consistently without crashing or losing data. | | NFR-05 | Availability | The ATM service should be available 24/7 with minimal downtime. | | NFR-06 | Error Handling | The system should display clear messages such as “Invalid PIN” or “Insufficient Balance.” | | NFR-07 | Scalability | The system should support future features like fund transfers or bill payments without major redesign. | |  |
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