## SE Practical 02

1. **Prepare an SRS document in line with the IEEE recommended standards for the specified Case Study. (Non-Functional Requirements)**

## For ATM Machine:
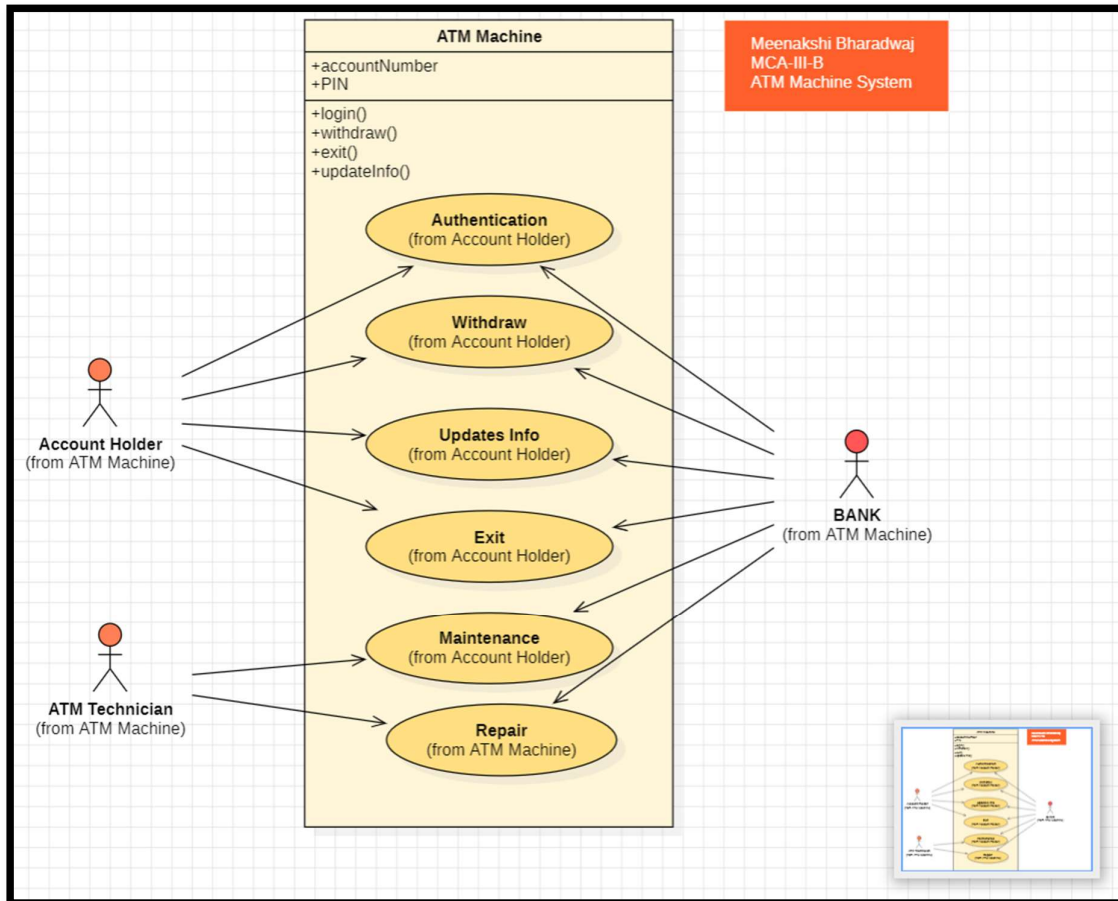


*Figure 1: ATM Machine System*

**Non-Functional Requirements for ATM Machine System:**

1. **Performance Requirements**
   - The system shall respond to any user action within 2 seconds.
   - The system shall be able to process at least 100 transactions per hour.

2. **Security Requirements**
   - The system shall encrypt all sensitive information, including PINs and account details, using industry-standard encryption protocols (e.g., AES-256).
   - The system shall automatically log out users after 30 seconds of inactivity.

3. **Availability Requirements**
   - The system shall be operational 99.9% of the time with minimal downtime for maintenance.

4. **Usability Requirements**
   - The system shall have a user-friendly interface with simple instructions for each transaction type.
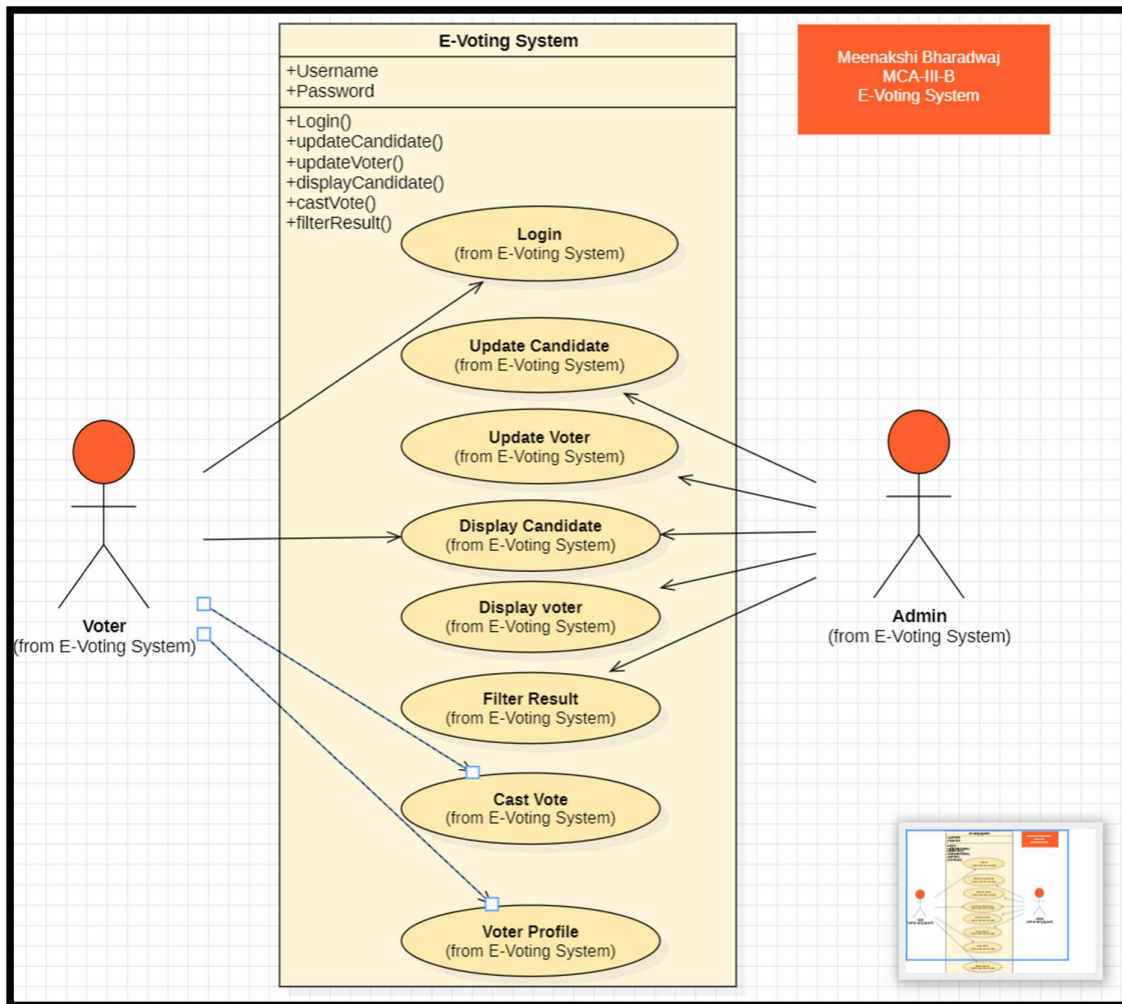   - The system shall support both English and local languages.

## For E-Voting System:



*Figure 2: E-Voting System*

**Non-Functional Requirements for E-Voting System:**

1. **Performance Requirements**
   - The system shall support at least 10,000 concurrent users during peak voting periods.
   - The system shall process vote submissions within 2 seconds.

2. **Security Requirements**
   - The system shall ensure that voter data and votes are encrypted using AES-256 encryption.
   - The system shall implement multi-factor authentication for both voters and administrators.
   - The system shall comply with all national election security standards.

3. **Availability Requirements**
   - The system shall maintain 99.99% uptime during the election period.
   - The system shall provide real-time monitoring to ensure no interruptions occur during the election.

4. **Usability Requirements**
   - The system shall provide an intuitive and user-friendly interface for voters, accessible on both desktop and mobile platforms.
   - The system shall be available in multiple languages depending on the region of operation.

5. **Scalability Requirements**
   - The system shall be scalable to handle elections at a national level with millions of users.

6. **Data Integrity**
   - The system shall ensure that data entered by voters during registration and voting is stored without any loss or corruption.