



COMSATS UNIVERSITY ISLAMABAD (ABBOTTABAD)

CAMPUS

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Assignment 1

Brief Introduction:

In the Online Voting Machine system, registered users (voters) can participate in various polls. The system provides a secure, digital way for users to cast votes, with each vote being counted accurately. The main functionalities include registering a vote, casting a vote, creating a poll, and searching results. By implementing this system, we aim to simplify the voting process, make it accessible online, and ensure transparency and integrity in the vote-counting process.

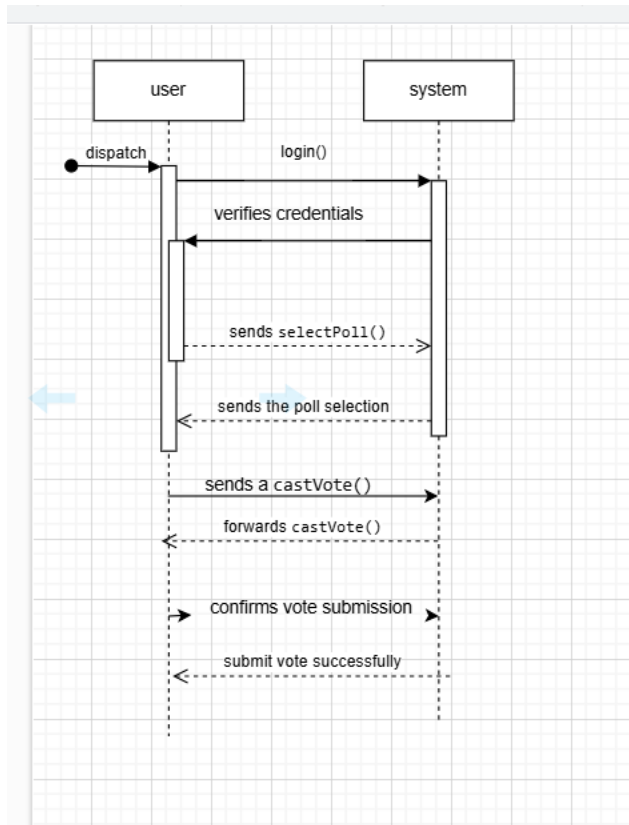
Use Case Overview:

- The system supports four main use cases:
 - **Register Vote:** Allow users to register their details to participate in polls.
 - **Casting Vote:** Let registered users cast their votes in a specific poll.
 - **Create Poll:** Enable admins to create new polls.
 - **Search Results:** Provide users with a way to view poll results.
- **Use Case:** Casting Vote
 - The voter interacts with the system to cast a vote in an active poll.
- **Description:** This diagram shows the interaction between the **Voter** and the system for casting a vote, as well as the relationship with other use cases (Register Vote, Create Poll, and Search Results).

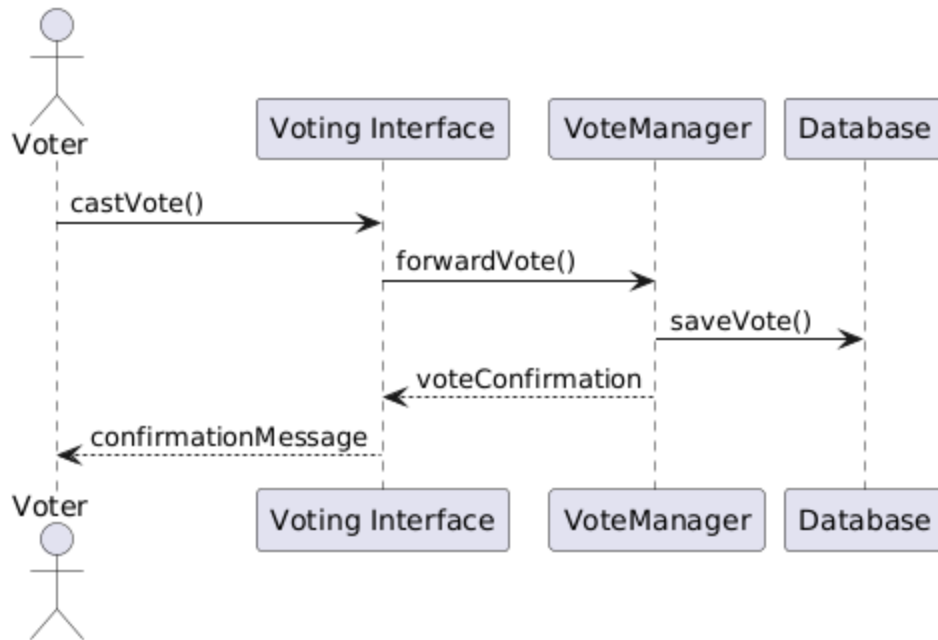
b. Fully Dressed Use Case for "Casting Vote"

- **Use Case Name:** Casting Vote
- **Primary Actor:** Voter
- **Stakeholders and Interests:**
 - **Voter:** Wants to cast their vote securely and accurately.
 - **System:** Ensures that each vote is unique and counted properly.
- **Preconditions:**
 - The voter must be registered in the system.
 - There must be an active poll open for voting.
- **Main Success Scenario:**
 1. The voter logs into the system.
 2. The system authenticates the voter.
 3. The voter selects a poll to participate in.
 4. The voter chooses an option and submits their vote.
 5. The system confirms the vote and updates the poll results.
- **Extensions (Alternative Scenarios):**
 - **3a. Poll Not Found:** If the selected poll doesn't exist, the system displays an error.
 - **4a. Vote Already Cast:** If the voter has already cast a vote, the system prevents multiple votes.
- **Postconditions:**
 - The voter's vote is recorded in the system, and the vote count is updated.

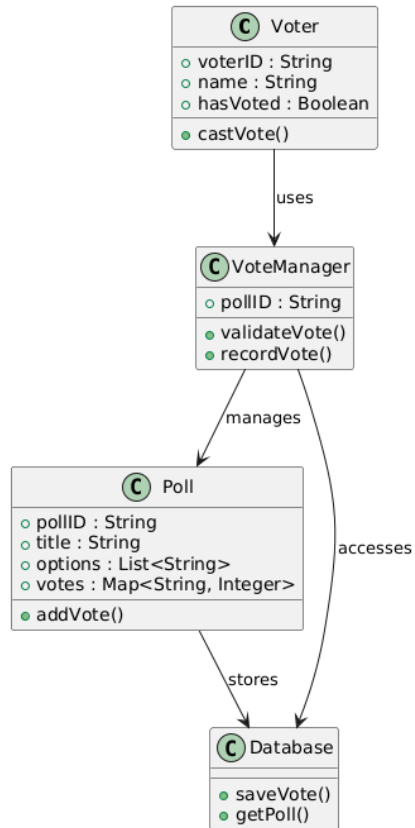
SSD Diagram:



Communication diagram:



Class Diagram:



Package Diagram:

