DEFINE THE PROBLEM STATEMENT

DATE	04 NOVEMBER 2023
TEAM ID	NM2023TMID02213
PROJECT NAME	BIOMETRIC SECURITY
	SYSTEM FOR VOTING
	PLATFORM
MAXIMUM MARKS	4 MARKS

The business problem for implementing a biometric security system in a voting platform during the ideation phase revolves around addressing key challenges and concerns associated with traditional voting systems. Here are some aspects to consider:

1. Identity Verification:

- Traditional voting systems rely on manual verification of identity through documents such as ID cards, which may be susceptible to fraud.
- Biometric security aims to enhance the accuracy of identity verification by using unique physiological or behavioral characteristics, such as fingerprints, iris scans, or facial recognition.

2. Voter Authentication:

- Ensuring that the person casting the vote is indeed the registered voter is crucial to maintain the integrity of the electoral process.
- Biometric authentication adds an additional layer of security by tying the vote to a unique biometric identifier, reducing the risk of impersonation.

3. Fraud Prevention:

- Traditional voting methods may be vulnerable to fraudulent activities such as ballot stuffing, double voting, or identity theft.
- Biometric systems can help prevent these issues by creating a more secure and tamper-resistant voting process.

4. Accessibility and Inclusivity:

- Some individuals may face challenges in presenting traditional identification documents or remembering passwords.
- Biometric systems can improve accessibility by providing a more user-friendly and inclusive means of authentication, especially for individuals with disabilities or those who may not have traditional identification.

5. **Data Security and Privacy:**

• Implementing a biometric system requires careful consideration of data security and privacy concerns.

• The ideation phase should address how to securely store and manage biometric data, ensuring that it is protected from unauthorized access and misuse.

6. **Technology Integration:**

- Integrating biometric technology into a voting platform requires a seamless and user-friendly experience.
- Ideation should focus on selecting appropriate biometric modalities, considering factors such as accuracy, speed, and ease of use.

7. Public Trust and Acceptance:

- Introducing new technologies in the voting process may face resistance from the public due to concerns about security, privacy, and potential misuse.
- The ideation phase should explore strategies to build public trust and ensure transparency in the implementation of biometric security measures.

8. Legal and Regulatory Compliance:

- Adherence to legal and regulatory frameworks is essential when implementing biometric systems for voting.
- Ideation should involve a thorough understanding of relevant laws and regulations to ensure compliance and avoid legal challenges.

Addressing these aspects during the ideation phase will contribute to the development of a robust and secure biometric security system for a voting platform.