Date	07October2023
TeamID	NM2023TMID09503
ProjectName	Biometric Security System For Voting Platform
MaximumMarks	4Marks

Brainstorm & Idea Prioritization:

Step-1: Team Gathering , Collaboration and Select the Problem Statement

Step-2: Brainstorm, Idea Listing and Grouping

2 Brainstorm

Write down any ideas that come to mind that address your problem statement.

🕐 10 minutes

SRISABARI

Implement a multi-modal biometric system that combines multiple biometric identifiers, such as fingerprints, iris scans, and facial recognition. This increases the accuracy of identity verification and makes it more difficult for fraudulent attempts.

SHARUKESHAN

Utilize blockchain technology to create a secure and transparent ledger of votes. Each vote is encrypted and added to the blockchain, making it tamper-proof and easily auditable.

VEDANAYAGAM

Use biometric data during voter registration to ensure that each voter's identity is accurately verified. This can be done during the initial registration process to create a secure database of eligible voters.

SRUTHIE

Encrypt and protect biometric data using state-of-the-art encryption techniques to prevent unauthorized access or data breaches. Data should only be accessible for authentication purposes.

Implement anti-spoofing measures to detect and prevent attempts to use fake or replicated biometric data for authentication.

Ensure the system is accessible to all voters, including those with disabilities. Provide options for voice commands, braille displays, or other accessibility features to ensure inclusivity.

Develop a system that ensures the anonymity of voters. Votes are tied to biometric data for authentication but separated from personal information to protect privacy.

Create a hybrid voting system that combines traditional paper ballots with biometric authentication. Voters can choose their preferred method while still benefiting from biometric security.

3 Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you and break it up into smaller sub-groups.

🕐 20 minutes

Collaborate with national ID systems to streamline the voter registration process, using biometric data already collected for other purposes, such as ID cards or passports.
These ideas can be integrated into a comprehensive Biometric Security System for a Voting Platform to enhance security, transparency, and accessibility in the electoral process. The specific features and technologies used should align with the legal and regulatory requirements of the region in which the system is deployed.

Establish clear and strict policies for the retention and deletion of biometric data to address privacy concerns and data protection regulations.

Step-3:IdeaPrioritization

4

Prioritize

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

⏱ 20 minutes

Importance

If each of these tasks could get done without any difficulty or cost, which would have the most positive impact?

Implement a multi-modal biometric system that combines multiple biometric identifiers, such as fingerprints, iris scans, and facial recognition. This increases the accuracy of identity verification and makes it more difficult for fraudulent attempts.

Create a hybrid voting system that combines traditional paper ballots with biometric authentication. Voters can choose their preferred method while still benefiting from biometric security.

Encrypt and protect biometric data using state-of-the-art encryption techniques to prevent unauthorized access or data breaches. Data should only be accessible for authentication purposes.

Utilize blockchain technology to create a secure and transparent ledger of votes. Each vote is encrypted and added to the blockchain, making it tamper-proof and easily auditable.

Implement anti-spoofing measures to detect and prevent attempts to use fake or replicated biometric data for authentication.

Establish clear and strict policies for the retention and deletion of biometric data to address privacy concerns and data protection regulations.