UE20CS390A – Capstone Project Approval

Project Title   : Blockchain Based E-Voting System
Project ID   : PW24_CBR_01

Project Guide : Prof Charan raj

Project Team : PES1UG21CS063
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Problem Statement

"How can blockchain and IoT technologies be effectively integrated to enhance cybersecurity measures within the banking system, considering challenges such as scalability, interoperability, data privacy, regulatory compliance, and the complexity of legacy systems?"

Problem Statement

problem statement explination

The banking sector faces persistent challenges in cybersecurity, exacerbated by evolving threats, regulatory requirements, and the increasing complexity of digital infrastructure. To address these challenges effectively, there is a growing interest in leveraging blockchain and IoT technologies for cybersecurity enhancement within the banking system. However, the integration of blockchain and IoT introduces a set of complex issues that must be addressed to realize their full potential in bolstering cybersecurity measures

Scope and Feasibility study

- **Provide an overview of scope it entails.**
- Enhanced security
- Streamlined compliance and regulatory reporting
- Improved customer experience
- Efficient supply chain management
- Fraud detection and prevention
- Smart contract automation
- Decentralized finance opportunities

Possible Shortcomings/Challenges

Scalability

Interoperability

Data privacy and security

Regulatory compliance

Legacy systems integration

Overall, addressing these difficulties requires careful planning, collaboration, and investment from banks, financial institutions, technology providers, and regulatory bodies. Despite the challenges, overcoming these hurdles can unlock significant opportunities for enhancing security, efficiency, and innovation in the banking sector through the integration of IoT and blockchain technologies

Applications/Use cases

- Describe the applications and use cases of your project.
- Immutable audit trail
- Decentralized identity and access management
- Secure device authentication and attestation
- Data integrity and confidentiality
- Smart contracts for automated security policies
- Transparent supply chain security

Expected Deliverables

- Capstone-I deliverables

- Capstone-II deliverables

Capstone (Phase-I & Phase-II) Project Timeline

Provide

- The timelines for execution of the project through Gantt chart.
- The plan in terms of efforts by individuals in the team.
- Mention the tasks involved in different stages.

Any other information

- Provide any other information you wish to add on.

- Note: Changes can be made in the template, with the consent of the guide for inclusion of any other information.

Thank You