RAJALAKSHMI ENGINEERING COLLEGE

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DEPARTMENT OF INFORMATION TECHNOLOGY

IV IT PROJECT – IT19712 - Project Phase I (Batch : 2022-2026)

Academic Year : 2025 - 2026

LITERATURE SURVEY

TITLE	
TEAM MEMBERS **Register Number –Student Name**	
Supervisor	
Batch Number	

S.Nos.	Paper Details	Paper Focus	Paper Findings	Future Work
1	S. R. Ullah Mir, Y. A. Atef Kalaji, R. W. Ahmad, A. ur R. Khan, Blockchain-Based System for End-to-End Donations Monitoring, 2023 24th International Arab Conference on Information Technology (ACIT). DOI: 10.1109/ACIT58888.2023.10453793. IEEE Link: https://ieeexplore.ieee.org/document/10453793.	Blockchain system for monitoring end-to-end donations.	Provides transparent and accountable donation tracking framework using blockchain.	Scale the system for multi-NGO and global donor adoption.
2	Platform for Tracking Donations of Charitable Foundations Based on Blockchain Technology, 2019 Actual Problems of Systems and Software Engineering (APSSE). IEEE Link: Available on IEEE Xplore (search 'blockchain donation tracking').	Blockchain-based donation tracking platform for charities.	Demonstrates prototype donation tracking via blockchain ensuring traceability.	Optimize scalability and real-time monitoring for large donor bases.

3	Enhancing Early Stunting Detection: A Novel Approach using Artificial Intelligence, 2024 IEEE Conference on Artificial Intelligence (CAI). DOI: 10.1109/CAI59869.2024.00098. IEEELink: https://ieeexplore.ieee.org/document/10605290.	AI-based early stunting detection in children.	Proposes novel AI algorithms for early detection of child stunting with improved accuracy.	Integrate AI-driven stunting detection into large-scale child welfare systems.
4	Gamification in Health Apps to Increase Physical Activity within Families, 2019 International Conference on Wireless and Mobile Computing (WiMob). DOI: 10.1109/WiMOB.2019.8923332. IEEE Link: https://ieeexplore.ieee.org/document/8923332.	Gamification strategies in mobile health apps for family physical activity.	Demonstrates that gamified apps increase physical activity among children and families.	Apply gamification to child health monitoring systems in orphanages.
5	Ali Kashif Bashir, Nancy Victor, Sweta Bhattacharya, et al., Federated Learning for the Healthcare Metaverse: Concepts, Applications, Challenges and Future Directions, IEEE Internet of Things Journal, 2023. DOI: 10.1109/JIOT.2023.3304790.	Federated learning in healthcare and metaverse applications.	Proposes FL for collaborative healthcare analytics without data centralization; identifies challenges such as communication costs and model heterogeneity.	Develop lightweight, resource-efficient FL suitable for constrained orphanage environments.
6	Edgar D. Villarreal, José Garcia-Alonso, Enrique Moguel, Julio A. Hurtado, Blockchain for Healthcare Management Systems: A Survey on Interoperability and Security, IEEE Access, 2023. DOI: 10.1109/ACCESS.2023.3236505.	Survey of blockchain interoperability and security in healthcare management.	Highlights blockchain as a tool for secure EHR exchange, interoperability frameworks, and addressing privacy concerns.	Integrate blockchain-based EHR sharing in child welfare systems with NGO/government APIs.

7	Diana Hawashin, Raja Jayaraman, Khaled Salah, Ibrar Yaqoob, et al., Blockchain-Based Management for Organ Donation and Transplantation, IEEE Access, 2022. DOI: 10.1109/ACCESS.2022.3180008.	Blockchain-based organ donation management.	Provides tamper-proof, transparent organ donation tracking with audit trails.	Apply similar blockchain transparency for donation flows in orphanages.
8	Cross-Cluster Federated Learning and Blockchain for Internet of Medical Things, IEEE Internet of Things Journal, 2021. DOI: 10.1109/JIOT.2021.3081578.	Cross-cluster FL combined with blockchain for IoMT systems.	Improves privacy-preserving IoMT model sharing and ensures model provenance via blockchain.	Adapt IoMT+FL integration for low-resource child health monitoring systems.
9	D. C. Nguyen, P. N. Pathirana, M. Ding, A. Seneviratne, BEdgeHealth: A Decentralized Architecture for Edge-based IoMT Networks Using Blockchain, IEEE Internet of Things Journal, 2021. DOI: 10.1109/JIOT.2021.3113576.	Edge-based IoMT integrated with blockchain for decentralized healthcare.	Reduces latency and improves scalability of healthcare IoMT using blockchain-anchored edge nodes.	Incorporate edge-IoMT models for real-time child health monitoring in TOSS.
10	A Secure and Efficient Charitable Donation System Based on Ethereum Blockchain and Searchable Encryption, IEEE Transactions on Consumer Electronics, 2024. DOI: 10.1109/TCE.2023.3323356.	Blockchain-based charitable donation system with searchable encryption.	Provides encrypted, searchable donation records ensuring transparency while preserving privacy.	Extend searchable donations to support real-time donor engagement apps in TOSS.

11	S. R. Ullah Mir, Y. A. Atef Kalaji, R. W. Ahmad, A. ur R. Khan, Blockchain-based System for End-to-End Donations Monitoring, IEEE (conference proceedings).	Blockchain-based monitoring system for donations.	Prototyped end-to-end donation tracking; improves accountability.	Scale for multi-stakeholder NGO environments within TOSS.
12	An Evaluation Framework for Assessing IPFS Performance within a Blockchain-Based Healthcare System, IEEE International Conference on Blockchain, 2023.	Evaluating IPFS performance in healthcare blockchains.	Analyzes IPFS storage and performance bottlenecks for medical systems.	Evaluate IPFS for low-bandwidth child health and NGO settings.
13	MedShare: A Privacy-Preserving Medical Data Sharing System by Using Blockchain, IEEE Transactions on Services Computing, 2023.	Blockchain-based privacy-preserving EHR sharing.	Demonstrates secure, consent-driven sharing of sensitive health data.	Adapt MedShare design for orphanage child health record sharing.
14	A New Approach for Secure Cloud-Based Electronic Health Record and Its Experimental Testbed, IEEE Access, 2022.	Secure cloud-based electronic health record framework.	Proposes a secure cloud architecture for EHR with tested implementation.	Integrate cloud-EHR into TOSS for unified child records accessible by NGOs.
15	Lightweight and Expressive Fine-Grained Access Control for Healthcare Internet-of-Things, IEEE Transactions on Cloud Computing, 2022.	Fine-grained access control for IoMT in healthcare.	Enables expressive access policies with low latency for IoMT devices.	Implement RBAC/ABAC hybrid controls for TOSS stakeholders.

16	Privacy-Preservation Enhanced and Efficient Attribute-Based Access Control for Smart Health in Cloud-Assisted IoT, IEEE Internet of Things Journal, 2022.	Attribute-based access control (ABAC) for smart health systems.	Enhances ABAC scalability and efficiency for healthcare IoT.	Adopt ABAC in TOSS for regulated access to child data among stakeholders.

SUPERVISOR SIGNATURE **REVIEWER SIGNATURE** **PROJECT CO-ORDINATOR SIGNATURE**