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<p>(51) International classification :G06F 162300, G06F 162700, H04L 090600, H04L 090800, H04L 093200</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Chitkara University Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----</p> <p>2)Bluest Mettle Solutions Private Limited Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)MISHRA, Rahul Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----</p> <p>2)SINGH, Dhiraj Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----</p> <p>3)KAUSHAL, Rajesh Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----</p>
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(57) Abstract :

The present disclosure relates to a system to manage assets using a decentralized database (112) connected over a blockchain network (104) to a plurality of computing devices (106) and an AI engine (102). The system enables entities to register, authenticate, and perform activities such as purchasing, trading, and redeeming index tokens. The system also generates smart contracts executed based on predefined conditions and rules. The decentralized database is configured to encrypt and hash information of assets for each entity, and perform transaction validation using a Kafka consensus technique. The AI engine analyzes and processes information stored in the decentralized database to provide insights and recommendations for asset management decisions and risk assessments, and also includes a security mechanism that uses multi-tier role-based and coded access to protect information and ensure GDPR compliance.

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