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(57) Abstract :

A block chain system 100 to authenticate a user 102 for verification can include a server 200 configured with a plurality of blocks in a shared ledger 200C and at least one node 200A in a network 120 for verification on multiple computing devices 104. The one or more processor 202 performs operations to record ownership claim for a node 200A to be verified to at least a new computing device 104 used first time; claim ownership for the at least one computing device 104 by input login credentials; verify claim of the user 102 authenticating at least the one computing device 104; generate a certificate about the ownership claim for transmission in the system 100 for verification by other nodes 200A, and to add a record to the block chain. System 100 integrating traditional biometric data with behavioural analytics for precise identity verification. The system 100 also aligns with one or more Sustainable Development Goals by addressing key aspects related to technology, security, and inclusivity.

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