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(57) Abstract :

The present disclosure relates to a system that enables a secure password management system for managing passwords from various users in a confidential manner. It involves a secure storage mechanism (106) for the passwords and employing a concept of salting (104) for protecting the passwords. It also uses a Key Derivation Function (KDF) for derive encryption keys and adding an additional layer of security for the passwords. Whenever the user enters a new password in the system, if it matches the stored password in the database, the user can be granted access for the same. The system also enforces strong measures for protecting the passwords such as a minimum and maximum length for the passwords, requirements for special characters and so on. There is a user-friendly interface (206) for the user to safely interact with the system and the method also include additional features for regular updates and a multi-factor recovery for the passwords in case of data corruption.

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