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(57) Abstract :

The present disclosure relates generally to field of cyber security. More specifically the present invention relates to a system for securely generating and managing salt values for password encryption. The system (100) includes a processor (102), a memory (104), a salt value generator (106), a password encryption device (108), a salt management device (110), a password strength checker (114), a password reset unit (118) and a log unit (120). The salt value generator (106) is configured to generate a cryptographically secure random salt value for each password. A password encryption device (108) is embedded with encryption algorithm to encrypt passwords. Further the present invention relates to a method for securely generating and managing salt values for password encryption. Advantageously, the present invention relates to a more secure method for encrypting passwords by using per-password salt values, which are unique to each password and stored alongside the encrypted password

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