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(57) Abstract :
 A system (100) and method (200) for enhancing security in network applications is provided. The system (100) involves a central analysis unit (108) to detect one or more vulnerabilities in existing one or more security questions, wherein the central analysis unit (108) includes a natural language processing (NLP) module (110) and a machine learning module (112) to analyze and evaluate a linguistic complexity, uniqueness, and predictability of the security questions based on a database of known vulnerabilities. The system (100) provides comprehensive evaluation ensuring that security questions are strong and resistant to common attack methods. The system (100) continuously monitors and adapts to emerging threats, modifying security questions as needed, ensuring that security questions remain effective against evolving attack methods and vulnerabilities.

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