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(57) Abstract :

The File Integrity Monitoring Tool is an innovative invention that addresses the need for robust data security by detecting unauthorized changes to files or data stored on a computer system. The tool consists of four key modules: a Data Obtainment Module, a Hash Generating Module, a Monitoring Module, and a Report Module. The Data Obtainment Module extracts and gathers files using techniques like directory scanning and file system APIs. The Hash Generating Module creates unique identifiers (hashes) for each file, facilitating efficient comparison. The Monitoring Module continuously checks for unauthorized modifications by comparing hash identifiers, while the Report Module generates comprehensive reports upon detecting changes. The tool can be implemented on a computer system using software and finds applications in various sectors, including corporate networks, governmental organizations, financial institutions, and healthcare organizations. The File Integrity Monitoring Tool provides a reliable and effective solution for ensuring data security and regulatory compliance in diverse environments.

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