Experiment No 10 - Case study

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ADBMS Experiment 10

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Aim : Case Study on Database security issues & measures taken to handle those issues.

Theory :
Database security issues are a critical concern in the digital age where vast amounts of data specifically sensitive data is stored & managed.
Here are the primary security challenges
(1) SQL Injection
(2) Weak Authorization & Authentication
(3) Insufficient Data Encryption
(4) Cross-site scripting (XSS) & Cross-site Request Forgery (CSRF)
(5) Insider threats

Case study on recent patent

Title : Systems & methods for determining & executing trusted user access.

Filed : July 2022
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Assigned to Walmart Apollo LLC, this patent introduces a system to enhance security in retail settings through use of smart lock technology.

Methodology :
Central to this system is integration of an access member such as a door, secured by a smart lock & a control unit which is a pivotal component, tasked with processing authentication data received from a user interface device
This data is compared with pre-stored authentication data & if match is found, the individual is identified as a trusted user
The system, upon successful authentication generates & transmits an optimal key to the user interface device which unlocks the smart lock
This streamlined method replaces the traditional approach

Advantages
Enhances security
Operational efficiency

Conclusion : This patent offers a superior solution for managing access to secured items in retail setting