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Computer Engineering

Experiment - 8 :-

Aim :- Case study on Hospital Management

Theory :-

Hospital Management has traditionally involved monitoring and managing a range of administrative and clinical tasks. Ubiquitous computing is a type of technology that can be particularly ~~usiff~~ useful in hospital management, as it allows for real-time monitoring of patient data, automates routine tasks and enables remote access to medical records.

Traditionally for example patients would often have to wait for long periods of time to see a doctor, as the process of admitting patients and scheduling appointments is slow and inefficient. Even records where stored in different locations, communication issues between staff members could arise too

Ubiquitous computing can help hospitals overcome some of these traditionally challenges by providing real time monitoring of patient data. This helps managing medical records, freeing up staff time for more complex tasks.

While ubiquitous computing has the potential to greatly improve hospital management, there are several intelligence that must be adressed. One of the biggest challenges is data security and privacy as patient data is highly sensitive. Interoperability is also a challenge as different systems may use different data formats or standards making it difficult to share data between them.

To address these hospitals can use secure encryption & access control. Adopting open standards for data exchange. can also improve interoperability.

A model for ubiquitous computing in hospital management could involve using wearable devices to monitor patients vital. RFID tags could be used to tracking medical equipement, ensuring that it is available when needed and reducing risk of loss or theft.

Conclusion :-

Ubiquitous computing has the potential to greatly improve hospital mangement by enabling real-time monitoring automate routine tasks and improve communication. Challenges of data security and interoperability needs to be handled carefully & cost-effective solutions ~~use~~ need to be used.