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SOFTWARE ENGINEERING

CS 487

Prof. Dennis Hood
Computer Science

Homework #4

- Design a hospital management system (HMS) for a large hospital (1 patient and several sensors per room; many rooms across multiple floors)
 - a) Caregivers must have real-time awareness of each patient's status
 - b) Caregivers must respond to patient emergencies quickly
 - c) Maintenance workers must respond to sensor failures quickly
- Deliverable
 1. Rewrite each requirement to remove ambiguity (1 pt)
 2. Depict a UI which presents the status of each patient on a single screen and explain how it provides SA (1 pt)
 3. Specify a protocol that maximizes the likeliness of patient emergencies being handled quickly (1 pt)
 4. Specify a protocol that maximizes the likeliness of sensor failures being fixed quickly (1 pt)
 5. Plot awareness over time for an emergency (1 pt)
- Please submit by April 21st