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Project Proposal CITS5506: Internet of Things
To be submitted by 11:59 pm on Thursday, 31 August 2023

1. Name of Project:

Smart Saline/IV Bag Monitoring and Alert System.

2. Group Number, Names and Student Numbers of team members:

Group # 19	
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3. Why Why do you want to do this project? What benefit will your project bring?

Hospital attendants' jobs are very demanding. They must assist patients with their everyday needs. This tough job requires a lot of energy and concentration that is crucial to a zero-error work environment. A mistake in the medical field could be minor or severe, depending on the case. Our idea, Smart Saline/IV bag Monitoring and Alert System, could help the hospital attendants reduce their workload by potentially eliminating their duty to continuously monitor or check in regular intervals the Saline/IV bags. Also, the time spent checking could be used for other duties which could improve patient care. Furthermore, this importantly eliminates the risk of an empty IV bag which could result in patients' discomfort.

The Smart Saline/IV Bag Monitoring and Alert System project brings numerous benefits to healthcare settings and patients:

Patient Safety: Detects IV bag anomalies like leaks and empty bags, that could disrupt the fluid flow through the catheter into the patient, causing blood pool around the catheter, enhancing patient safety.

Real-time Alerts: Provides instant alerts to healthcare staff, ensuring quick response to issues.

Error Reduction: Manual checks of IV bags can introduce human errors. This can be minimized, leading to more accurate therapy.

Resource Efficiency: As the IV bag is continuously monitored, IV fluid wastage (leaks for example) can be detected thereby optimizing resource utilization and saving costs.

Workflow Improvement: Frees up healthcare providers' time from manual checks for better patient care. This could potentially improve the attendant's mental.