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UCL-GOSH Data Interchange for Sensors Classifications

UCL

Abstract

Great Ormond Street Hospital (GOSH) is a children's hospital located in the Bloomsbury area of the London Borough of Camden. The main idea of the project is to visualise streaming Infusion Pump data on a customisable, user-friendly dashboard. With this project, the infusion pump dashboard would help clinicians monitor their patients' treatment. These precious data can be useful for tracking the condition and altering the treatment plan of the patient. Being able to review all the collection of data also helps in carrying out researches by the clinicians.

System Architecture

User   Frontend   Backend   Database

We have two main types of users, clinicians and patients. They will be making requests and receive responses from the web app.
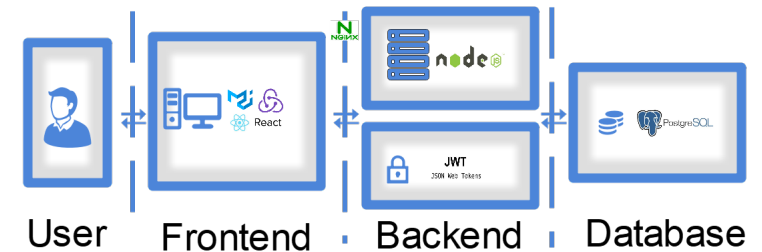
Motivation

At the moment, there is no monitoring system in GOSH which would help clinicians to get insights into patients' treatment and see if they are hitting the target amount of feed they are prescribing. When it's on paper and the information is not digitalised, you tend to forget the bigger picture and lose crucial information on how effective is the current treatment plan.

Solution and Showcases

Having a dashboard with customisable metric graphs of infusion pump data would help to evaluate the treatment plan of the patients by analysing the data over time with different metrics (such as rate over time, volume over time, etc.), get insights into the patients body (which plan doesn't seem to work and which does), and makes the life of the clinician easier.

Keywords of our solution

- **Multipule Signatures**
- **Customisable Dashboard**
- **System Intelligence**
- **Patient Treatment History**
- **Feedback System**

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