COMP0016, 2020-2021 - Team 06



Dashboard for Visualising Infusion Pump Data

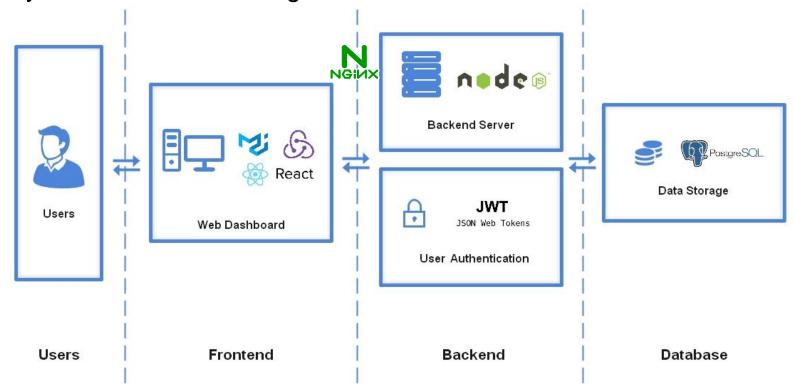
Client: Gemma Renshaw, GOSH Sheena Visram



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Abstract

- User friendly, data-rich progressive web application (PWA) for clinicians and patients to monitor and visualise the infusion pump feed data. Ability to create tailored treatment plans for patients. Reliable storage and access to the treatment history of patients.
- System architecture diagram:















MoSCoW Achievements List

ID	Description	Priority	State	Contributors
1	Monitor and reliably read live data from infusion pump.	Must	✓	Daulet
2	Dashboard for visualising the patient infusion pump data over time.	Must	✓	Daulet
3	Types of graphs to choose from on the dashboard, i.e., rate over time, volume over time, etc.	Must	✓	Daulet
4	Target feed and actual feed comparison on the graph.	Must	✓	Daulet
5	Secure and reliable authorisation system.	Must	✓	Daulet
6	Patient information page.	Must	✓	Daulet
7	Make changes to the patient's treatment plan (Clinician Only).	Must	✓	Daulet

MoSCoW Achievements List

ID	Description	Priority	State	Contributors
8	Assign the supervised patients to the dashboard (Clinician Only).	Should	✓	Daulet
9	Different visualising methods to choose from.	Should	✓	Daulet
10	Hover on the point of the graph to see the percentage difference of received and target feed.	Should	✓	Daulet
11	Filter the data by day, by month, by year and by specific date range.	Should	✓	Daulet
12	Patients reporting the reasons for large gaps between target and actual feed (Such as "Exercised between 1pm and 2pm", "Low appetite because of XYZ").	Could	~	Daulet
13	Clinicians update the records of the patients, example: If a patient did handle Treatment X too well, we can add it to their info page/ database,so that if the clinicians change, they have some information to work with.	Could	✓	Daulet

MoSCoW Achievements List

ID	Description	Priority	State	Contributors
14	Registration Page - unauthorised people wouldn't be able to register and use the app.	Won't		
15	Show other patients' information to patients.	Won't		
16	Change your own treatment plan as a patient.	Won't		
Key Funtionalities:		100%		
Optional Funtionalities:		100%		

^{*}MoSCoW list has been modified time to time upon the agreement with the clients.

Individual Contribution

Part of Project	Daulet Batayev	Henry Ching	Tianang Chen
Client Liaison	33%	33%	33%
Requirement Analysis	33%	33%	33%
Research	33%	33%	33%
UI Design	50%	25%	25%
Prototyping	33%	33%	33%
Programming	100%	0%	0%
Documentation	33%	33%	33%
Presentation	33%	33%	33%
Blog	40%	40%	20%
Testing	80%	20%	0%
Legal Essay & Poster Design	0%	0%	100%
Project Website	33%	33%	33%
Video Editing	100%	0%	0%
Overall Contribution	60%	20%	20%
Main Roles	Full-stack Developer, Database Manager, SRE&DevOps, UI/UX, Tester	Tester, Portfolio and Dev Blog Manager	UI/UX, Portfolio Manager, Report Editor



- Application URL: https://dauletbatayev.com/
 - Admin Credentials (for registering new users)
 - Email: <u>admin@admin.com</u> Password: goshcomp0016team62021
 - Clinician Credentials
 - Email #1: an.zhao@gmail.com Password #1: anzhaotest
 - Email #2: sheena.visram@gmail.com Password #2: sheenavisramtest
 - Some Patient Credentials:
 - Email #1: james.smith@gmail.com Password #1: jamessmithtest
 - Email #2: jon.j@gmail.com Password #2: jonjonestest
- GitHub repository: https://github.com/COMP0016-Team6/NHS-Patient-Dashboard/
- Project website: https://comp0016-team6.github.io/
- Development blog: https://comp0016-team6.github.io/Dev-Blog/