

Core idea:

Nurses in Saskatchewan have an issue with documentation(also known as charting), they find it tedious and most times in the way of client interaction. They need a way to make the documentation process more integrated with the nursing lifestyle. That's where "Mobile Charter" comes in, a device in which nurses can document faster, simply by dictation. All they need to do is:

- 1) hold a button to record the current room number(possibly with bed number as well)
- 2) hold a button to record the documentation - "Patient is currently asleep"

and then, through voice to text model, it displays the text along with the date and the time the note was charted by the nurse, through something known as the "charterId" it also gets the nurse that charted.

Target Users -> Nurses in clinics and hospitals in Saskatchewan

How it solves a problem -> by saving time spent through manual documentation, by promoting more Nurse client interaction.

Current stage of process -> development

Anything validated or tried -> The device is going to be hardware but before that we are prototyping by putting it on the phone first; we made a webpage with buttons for the room and for the actual data.

There are similar devices to this like Cerna, but I don't think any is as structured and simple as this; The Mobile Charter, a portable device to help nurses to speed up documentation.

We also recognize the fact that nursing can be a very chaotic and noisy field, which is why we are going to have a noise filtering model for the recordings before passing it to the speech to text model.

Idea: so basically, in a case where there is more than one patient in a room, hospitals have Beds: "Bed A, Bed B, Bed C" and we're betting on the fact that hospitals also have a system to assign users to these beds. When a nurse charts, for instance "3438A", the documentation

information goes to room 3438 and goes to Bed A which will have a user assigned to it. Now my main idea is the fact that we can provide an AI chatbot on the bottom right of the webpage where the documentation goes. And you can query this AI on information about the patient assigned to that specific bed or to that room. and this would use RAG technology to view external data about that specific client(if any) as well as the current data charted, and use it to answer questions.