Cerner

Experience Studio Fall 2021





Meet the Team





Jared Buls



Enya Song



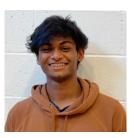
Natasha Chambers



Sarah Palagy



Sarah Deak



Varun Aravapalli



Olivia Eavey

Special Thanks





Paul Parsons



Chorong Park



Nancy Rasche



Gabriella Goss



Nick Gould



Katarina Mazanka



Carley Hummel



David Jacob

About Cerner

Cerner is

U.S. supplier of healthcare information technology solutions that support clinical, financial, and operational aspects within the industry.

Cerner's mission is to

Seek breakthrough innovations that will empower their clients and shape the healthcare of tomorrow.





Opportunity Space

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There is a current disconnect between what the portals typically provide and the struggles patients have with the healthcare process.

Problem

Our goal was to research the healthcare space and explore a more proactive approach to empower patients to better manage their health through the assistance of the patient portals

Solution





Recap: What is a portal?



A digital touchpoint that facilitates the seamless transfer of information between patients and any health care professional involved in the process. They typically involve logging into a platform to access medical information, scheduling tools, and contact their care providers.





Presentation Outline



User Introduction

Introduce our primary user and their current pain points

Feature Walk Through

Walk through features alongside our persona and research

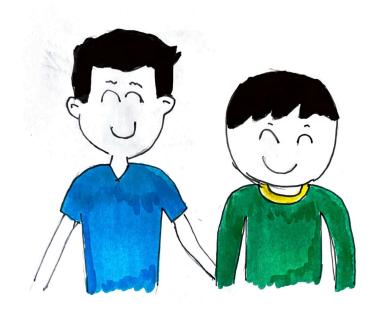
Next Steps

Reflect on project process and what we plan to accomplish further

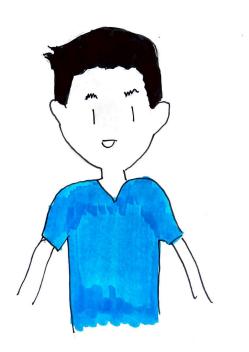




Introducing our user...







Sam (primary user)



New parent of a young child



Internalized Stress



Tight Schedule





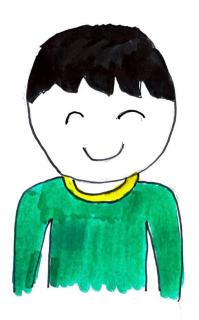
Charlie (Sam's child)



Young child requiring vaccines



Frequent "pop-up" health issues that require Sam's help





What is the appointment journey currently like?





One morning, Charlie wakes up with an earache. It's so painful that Charlie doesn't want to get out of bed.



Sam calls of work and Charlie's school. He then calls the doctor to schedule an appointment for later that day.

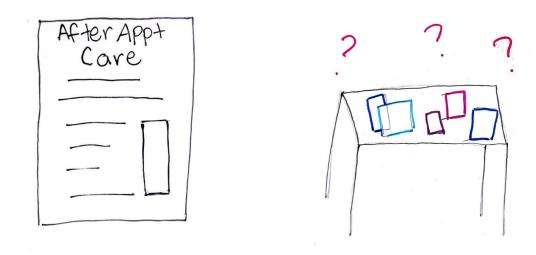


During the appointment, Sam feels stressed about Charlie's health and is also overwhelmed trying to remember all the information the doctor is giving.



Additionally, at the appointment the doctor tells Sam that Charlie still hasn't received a state-required vaccine.





After the appointment, Sam is given a paper copy of the appointment summary. Although he tries his best to keep track of it, the busyness of everyday life leads to it being misplaced and for Sam to be confused about how to take care of Charlie.





Sam's busy schedule also creates more anxiety and distractions about reminding Charlie to take his medication daily.





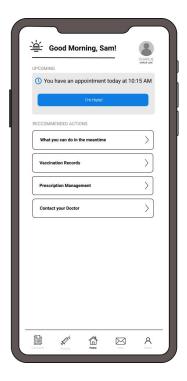
Because of the current system, Sam is left stressed, overwhelmed, and distracted.



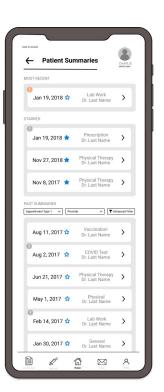
How might a patient portal app benefit Sam and his appointment journey?



Solution Overview







HOME

VACCINE INFORMATION

PATIENT SUMMARIES









Home page & timely information

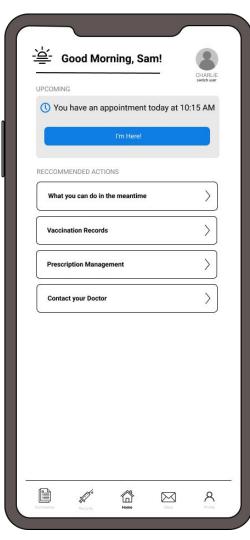


Vaccination information



Patient Summaries





Why Home Page With Time-Based Information

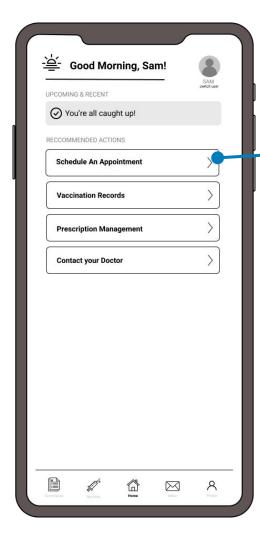
Clunky and hard to navigate

Parents value **time** when it comes to their children's health

Parents struggle most with the **unknown** when their children are sick

Increase engagement by giving portals more **purpose**

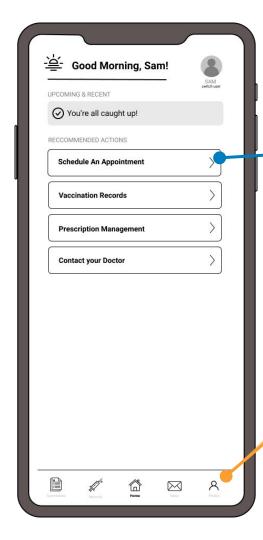




No Current Scheduled Appointment

The Recommended Actions section gives users quick actions to take in simple terminology.



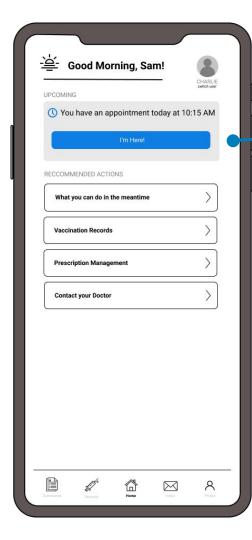


No Current Scheduled Appointment

The Recommended Actions section gives users quick actions to take in simple terminology.

Clean, simple bottom navigation. Gives users a clear mental model of the app and its functions.

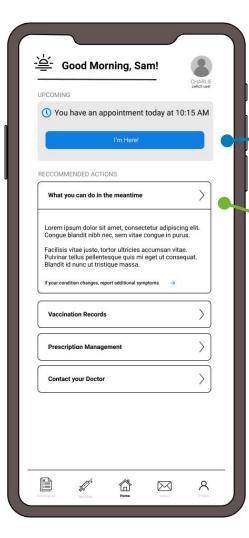




Upcoming Scheduled Appointment

The upcoming appointment notification allows parents to check in through the app, minimizing time.



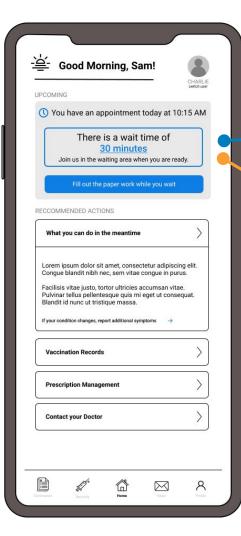


Upcoming Scheduled Appointment

The upcoming appointment notification allows parents to check in through the app, minimizing time.

"What to do in the meantime" gives parents actions to take to help their child based on inputted symptoms.



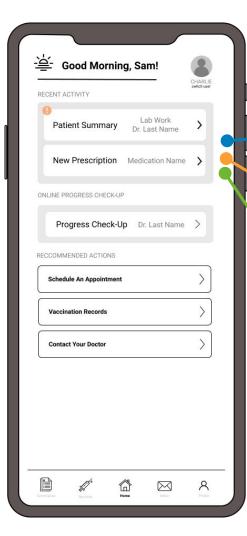


Upcoming Scheduled Appointment

The upcoming appointment notification allows parents to check in through the app, minimizing time.

Once they are ready to check in the day of their appointment, the app will show them the current wait time, so users can prioritize time.





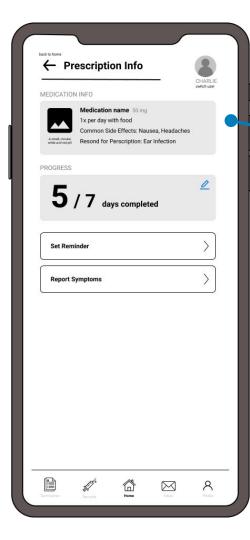
After Scheduled Appointment

The upcoming appointment notification allows parents to check in through the app, minimizing time.

Once they are ready to check in the day of their appointment, the app will show them the current wait time, so users can prioritize time.

Once the appointment is completed, the portal will provide quick and simple actions to view their patient summary and any medication information





After Scheduled Appointment

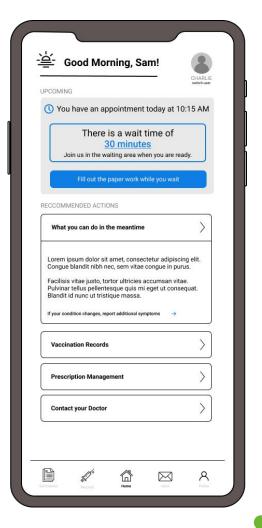
Prescription info helps parents keep track of their children's medication and health overtime.



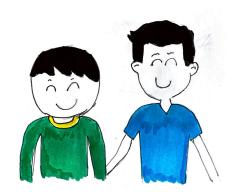
Let's Check Back with Sam & Charlie



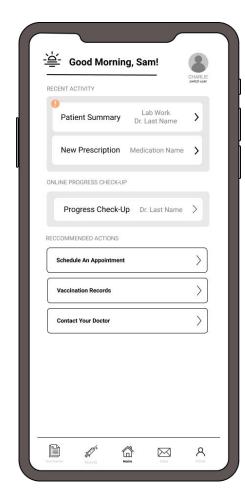
These features allow Sam to **receive credible information and save time** from searching on the internet about how to care for Charlie before the appointment.

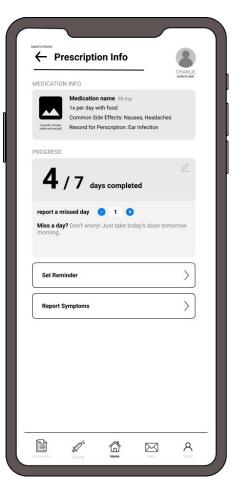


Let's Check Back with Sam & Charlie



By having a set location to **personally track medications,** Sam can stay on top of his tasks and Charlie's health.







Vaccination Organization





Home page & timely information



Vaccination information



Patient Summaries





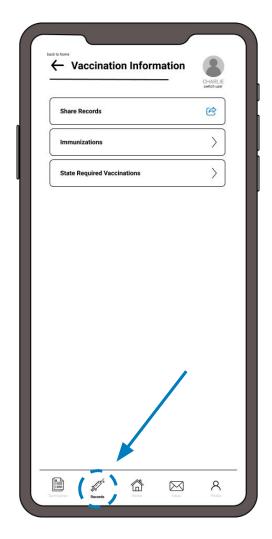
Why Vaccination Records?

Started with medical history

Parents value **time** and **safety** over anything else

Primary users showed an innate interest toward vaccination management

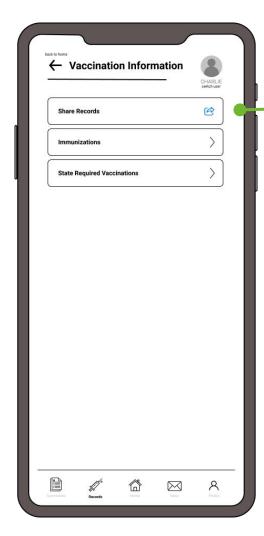










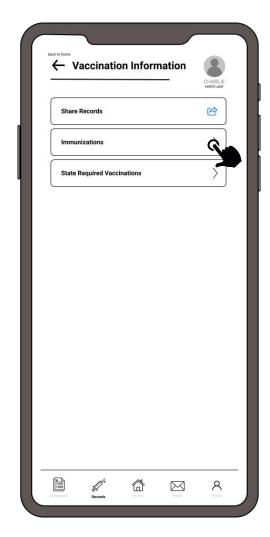


Vaccination Walkthrough

Easily share vaccination records to schools or other hospitals







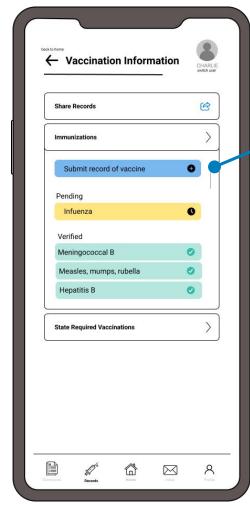






=	Vaccination	8
(!)	Vaccinations needed for your Scho	ol
Sta	e Required Vaccinations(your state)	3/4
	Hepatitis B	
	Infuenza	8
	Meningococcal B	
	Measles, mumps, rubella	
Vac	cinations needed for your School	
Reco	omended vaccinations	

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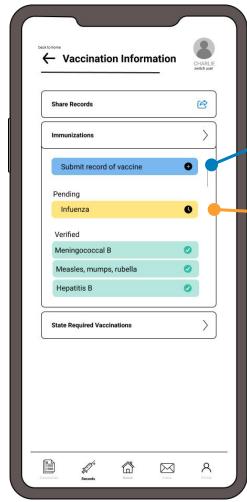
Users can click here to self-report a vaccination and quickly show proof of vaccination







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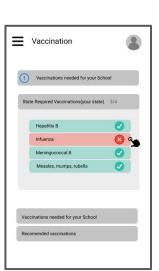


Users can click here to self-report a vaccination and quickly show proof of vaccination

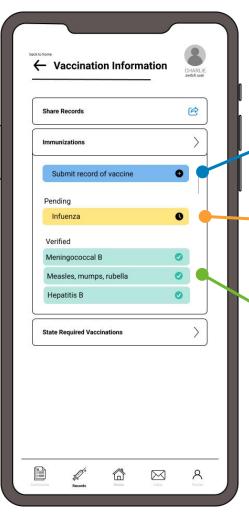
Pending is the step in between submitting the vaccine and it getting verified







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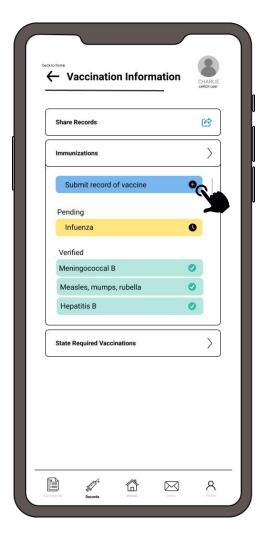
Users can click here to self-report a vaccination and quickly show proof of vaccination

Pending is the step in between submitting the vaccine and it getting verified

The verified section includes vaccinations you have previously gotten and has been verified





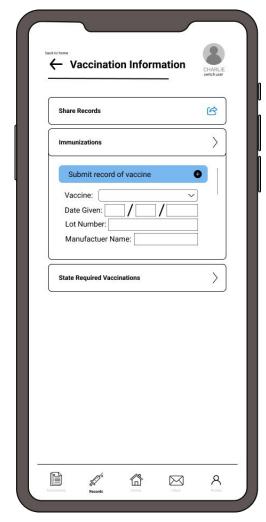








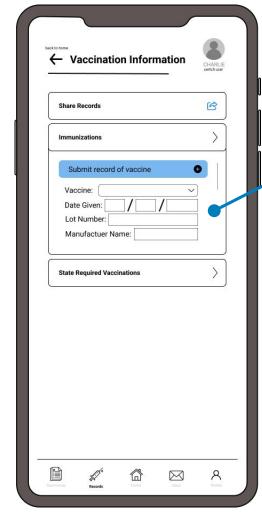








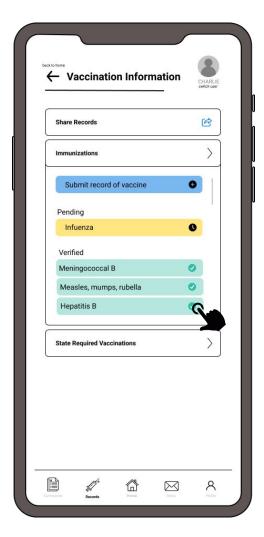




List of relevant information that must be entered





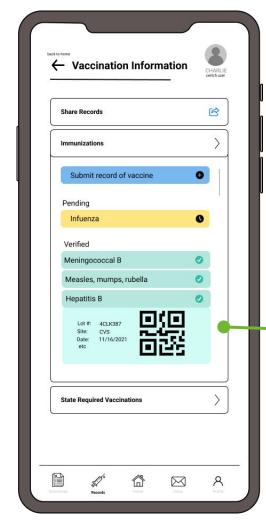








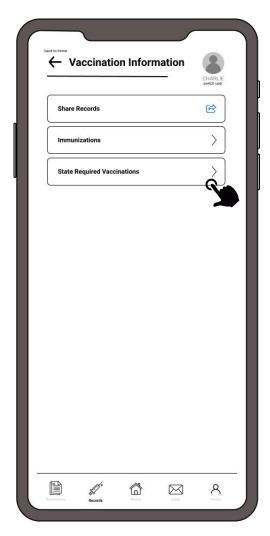




Quick access to on-the-go vaccination proof



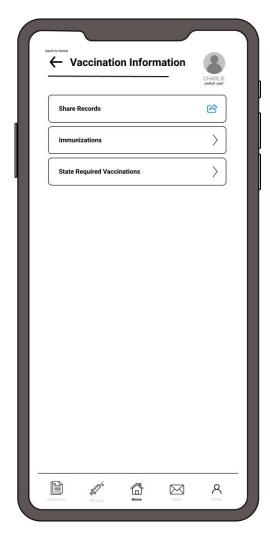










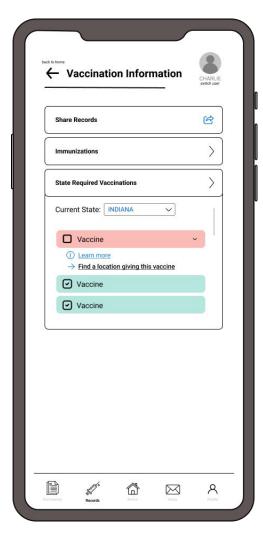


Vaccination Info





← Vaccination Information Share Records State Required Vaccinations

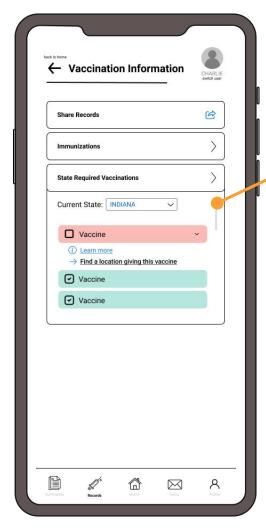


Vaccination Info





← Vaccination Information Share Records Becords A



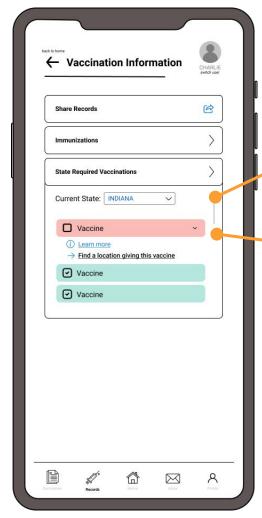
Vaccination Info

State Selection









Vaccination Info

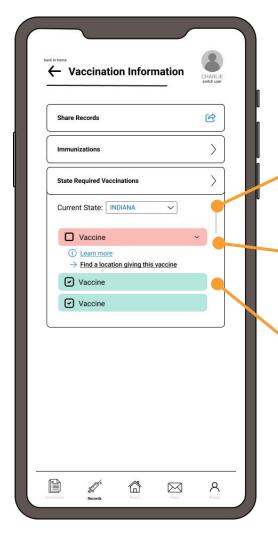
State Selection

Vaccines on the list that are still needed





← Vaccination Information Records A



Vaccination Info

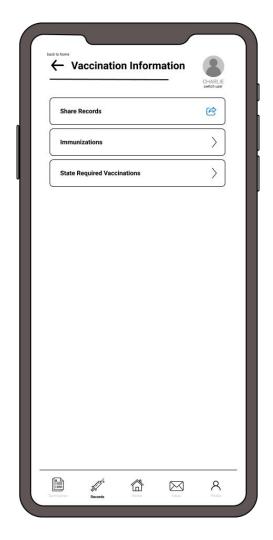
State Selection

Vaccines on the list that are still needed

Vaccines on the list that **you have**







Let's Check Back with Charlie and Sam



Sam is able to save **time** and **stress** because all of the **vaccinations** that Charlie needs are in one place that is **easily accessible**. He is also able to keep track of any on-going vaccines and **easily share** vaccination proof to schools.









Home & Time-based Features

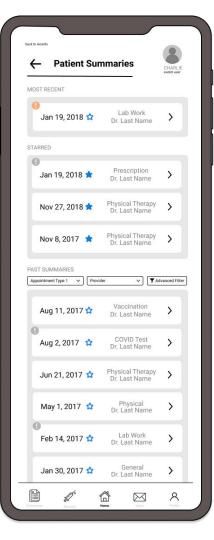


Vaccination information



Patient Summaries



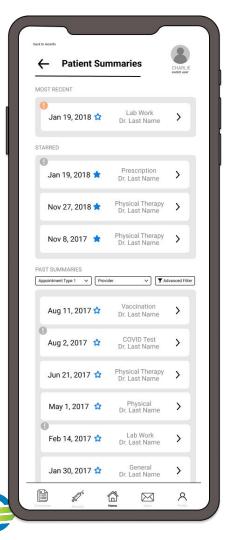


Why Patient Summaries?

55% of participants check their portal for important information about their appointment Interviewing participants revealed that recalling specific information was a common pain point

The patient appointment journey is **exhausting**





Most Recent

Starred

Past Summaries



Important Results/Action Items



Important Results (read)

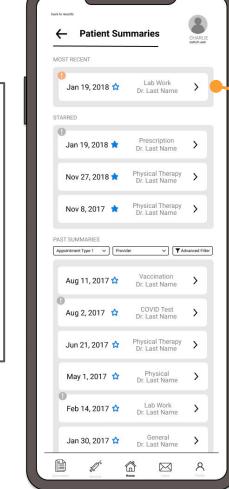


Starred by user





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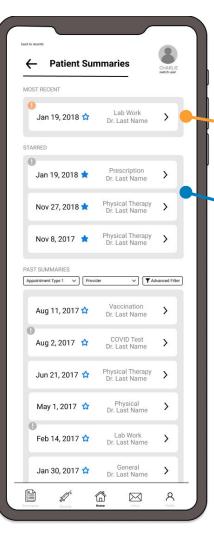
Most recent: indicates the patient's most recent patient summary for their convenience







LO-FI



Most recent: indicates the patient's most recent patient summary for their convenience

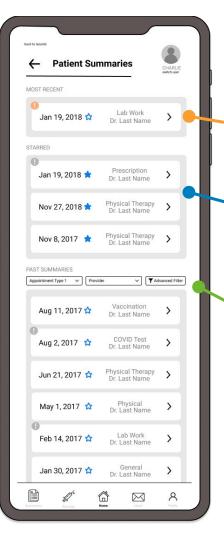
Starred: Make accessing it easier to access summaries the user finds important







LO-FI



Most recent: indicates the patient's most recent patient summary for their convenience

Starred: Make accessing it easier to access summaries the user finds important

Past Summaries: consolidate previous records, in an unobstructive way while still allowing patients to refer back to them

PAST SUMMARIES

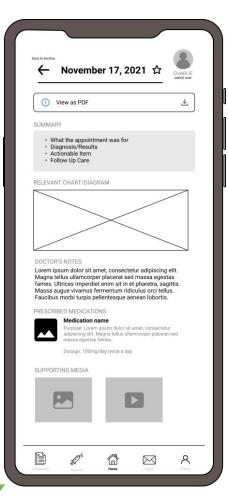
Appointment Type 1 V Provider



Y Advanced Filter

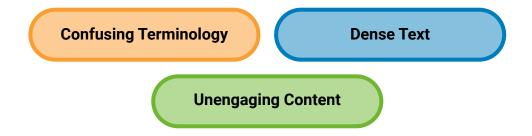






Argument For a Better Format

Current patient summaries aren't geared towards a layman's understanding and are not consistently provided

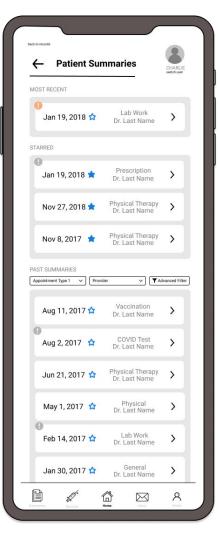


"I feel like I am completely on my own to manage something that they do everyday."

Interview Participant





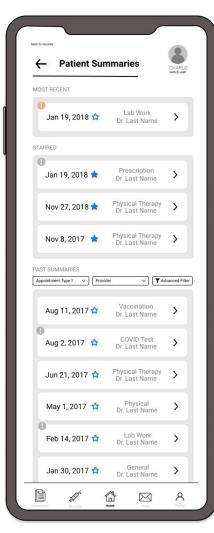


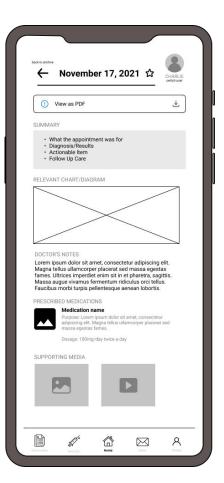
Let's Check Back with Sam & Charlie



With Charlie's patient summaries organized, Sam can easily review the details from his last appointment and doesn't have to worry about remembering everything.







Let's Check Back with Sam & Charlie



Overall, there are still barriers for Sam to overcome, with better organization, he can now clearly locate Charlie's most recent summary and access information about the medication that prescribed for his earache.





Next Steps & Reflection



Next Steps



Tinalize Project Documentation



Compile Transition Document





Reflection - What We Learned





Questions?

CERNER x PURDUE FA2021



Reflection - What We Learned

Quality over Quantity

Mercury is the closest planet to the Sun

Quality over Quantity

Mercury is the closest planet to the Sun

Teamwork

Mercury is the closest planet to the Sun

Feedback often and Frequently

Mercury is the closest planet to the Sun





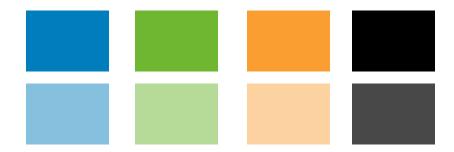
USE THESE ICONS







USE THESE COLORS



I put these here to show progression



Stuff we need to get done

Headers: Roboto | Bold

Everything Else: Raleway | medium

Slide 31: Needs to be more consistent/better visually

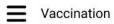
Home Screen Walk through: Needs to be more consistent/better visually

Home Screen Walk through: Needs to be more consistent/better visually



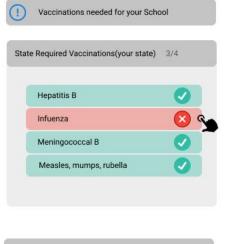
Need to do:

- Double check fonts
- -
- -





- Why Section (~1 minute)
 - What led us to choose this feature
 - Tie in our user group



Vaccinations needed for your School

Recomended vaccinations

