

# Patient Overview

a patient all in one view for physicians

**By**

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Donny Wu

**Mentors**

Lyn Bartram  
Shaolin Tsui

**Initiated by**

Fraser Health

# Who are we

## Fraser Health

One of the six publicly funded health regions of British Columbia and  
Initiated this project

### **Ridge** Zhang

4th year interactive systems  
student

### **Donny** Wu

4th year interactive systems  
student

### **Lyn** Bartram

Professor at the School of  
Interactive Arts and Technology

### **Shaolin** Tsui

Manager of User Experience  
and Visual Design System  
Optimization at Fraser Health

# What's the problem

## The hospital **environment**

A patient goes through the hospital and interacts with many doctors

The main way of communication between these doctors are the tests and notes left behind from the previous doctor

It is hard for an individual doctor to see the patient's big picture as they are handed off from doctor to doctor

# What's the problem

Current implementation **Meditech** and **UCI**

Records are scattered across the tabs requiring the physician to search and collect them first making it difficult for the physician to comprehend the patient journey as they cannot view sections of the patient journey simultaneously

A patient journey is a set of diagnostic notes, labs tests, imaging, and so on for 1 chief complaint

# What Meditech and UCI looks like

Enterprise Medical Record - Boyd, Monica

Roberts, Vivian DOB: 1/19/95 19 F  
F000005330 / H000000202 / DEMOVID0000214  
2 North Medical 230-2 ADM IN

HT: 62 in / Wt: 125 lb BSA: 1.57 m2 BMI: 22.9 kg/m2  
Allergy/Advs: No Known Allergies

Summary

Summary List **Encounters** Indicators Risk/Legal Demographics  
Providers Visit Contacts Insurances Abstracts

Patient Summary

Visit History

Patient Problems

Medical Shortness of breath, Nausea alone, Chest pain  
Family History Family history of migraine headaches, Family history of allergies  
Social History Other social stressor

Medications

Active (Ibuprofen (Ibuprofen))  
Ambulatory Medications  
RXH - CHC last updated 3/19/2014 1106 at FRAM  
Albuterol Sulfate (albuterol Sulfate... (2 INH 2-3x 30 days 1 Mont...  
Dioxinin 0.125 Mg Tab (0.125 Mg PO DAILY #20)

Preferred Pharmacy

Care Team

Immunizations

	Date Administered	Eligible Date	Recommended Schedule
Influenza	3/13/14	8/28/14	3/13/15

Health Maintenance

Mar 19, 2014

Growth Charts

Substance Use

	Alcohol Use	None	Mar 11, 2014
Drug Abuse	None	Mar 11, 2014	
Nicotine Dependence	Quit	Mar 11, 2014	

Procedures

My Personal Notes

Patient likes to be called Viv.

External Medical Summary Documents

Record List  
Other Visit  
Special Panels  
24 Hour  
Vital Signs  
I & O  
Notes  
Medications  
Order History  
Laboratory  
Microbiology  
Blood Bank  
Pathology  
Imaging  
Other Reports  
Care Trends  
Care Activity  
History  
Summary  
Encounters  
Referrals  
Problem List  
Discharge  
Orders  
Document  
Reconcile Meds  
Sign  
Refresh

Graph My Data Cancel Save ? ? ? ? ?

Screenshot from official Meditech training video  
From Meditech's official website

Stanic, Kristina

Name: CCUCIONE, ONE TEST PHN 974619004

Summary Encounters Conditions Allergies Medications

Clinical Summary

Summary Document

Clinical Data Subset

Diagnoses

Date	Type	Diagnoses	Code	Facility	Unit
8/Dec/2017 09:40:00	Discharge Diagnosis	Toothache	K0887	Eagle Ridge Hospital	ERH_ERASTHMA

Encounters

Admission Date	Type	Facility	Location	Attending	Service	Discharge Date
8/Dec/2017 09:40	Emergency	Eagle Ridge Hospital	ERH_ERASTHMA			8/Dec/2017 09:45

Allergies

Date	Allergy to	Reaction	Documented By	Facility	Severity	Resolved
23/Mar/2017	acetaminophen	swollen throat		Royal	Mild	

Quality of medical images in UCI may not be equivalent to images viewed on a radiology department PACS workstation C.V.ID: 185/7.0 dbMotion

The Clinical Summary page shows a summary of clinical data from items that you select, including

- Encounters
- Problems
- Diagnoses
- Allergies
- Fraser Health Laboratory Results

Screenshot from Fraser Health training video  
From Shaolin Tsui

# Proposed solution

## Patient Overview

An all in one patient dashboard so that the physicians can easily see and understand the patient journey

With features such as

- view the records in detail
- add and view notes of a record
- build a workspace encompassing the records of their selection
- search for a particular record with filters, name or time period
- travel through time of the patient's journey
- view the records from that perspective, and highlight abnormal results

# Let's see it in action

## Scenario

- Patient has a chief complaint of abdominal pain and is admitted to the ER
- Doctor wants to see the most recent tests before beginning a surgery

lets try the scenario with UCI and our prototype...

# UCI VS Our implementation

**Stanic, Kristina** | FH Clinical User | Logout

**Name:** CCUCIONE, ONE TEST | **PHN:** 9746190042 | **Age:** 41 Years | **Gender:** M

**Summary** | Encounters | Conditions | Allergies | Medications | Laboratory | Imaging | Procedures | Clinical Documents

**Summary Page**

**Allergies** | More data is available

Date	Allergy To	Reaction	Severity
12/Oct/2017	Bee Pollen	AGRAULOCYTOSIS	Severe
13/Oct/2017	BLUE-GREEN ALGAE	HALLUCINATIONS	Severe
17/Oct/2017	AMARYL		Moderate
29/May/2017	FREE TEXT ALLERGY		Moderate

**Medications** | There is no data available

**Encounters** | More data is available

Admission Date	Type	Facility	Attending
19/9/2018	NEW REFERRAL	Public Health	
13/9/2018 16:32		BC Childrens Ho	David Wensley
5/Jun/2018 14:28	Emergency	St. Pauls Hospital	Eric Jonathan
19/Oct/2017	Unknown	VCHA Community	

**Problems** | More data is available

Date	Category	Problem
6/Jan/2018 08:37:19	ALERT	Known MRSA and VRE
20/Jan/2017 01:22:00	ALERT	Aggressive/Violent Behaviour
13/Oct/2017 10:51:00	ALERT	Do Not Acknowledge
13/Oct/2017 10:51:00	ALERT	Antibiotic Resistant Organism
12/Oct/2017 01:43:00	ALERT	Advance Care Plan

**Labs** | More data is available

Collected	Test	Specimen	Facility
8/Jun/2018 14:48	Sodium		Abbotsford Region...
8/Jun/2018 14:48	Potassium		Abbotsford Region...
8/Jun/2018 14:48	Chloride		Abbotsford Region...
13/Oct/2017 14:49	Sodium		Abbotsford Region...
13/Oct/2017 14:49	Potassium		Abbotsford Region...

Quality of medical images in UCI may not be equivalent to images viewed on a radiology department PACS workstation

C.V.D. 152 / 76

Screenshot from Fraser Health training video  
From Shaolin Tsui

**Kea David E.**  
ID 17772218  
Male, Age 43

**Chief Complaint**  
Acute Pain/Abc/vr/ Ejaculat Nrv

**Current Location**  
Discharged

**Dietary Restrictions**  
Sodium Restricted 2 gm a month ago

**Current Medications**

**Allergies**

**Patient Notes**  
None note here.

**add to patient notes**

**no notes for this patient**

**Overview** | Details (nothing selected) | Work Space (0 tagged) | Clinical Documents

**Laboratories**

**Chem 6 - Urea, Creatinine, Lysates** | Laboratory | Last completed 8 days ago

Test	Result	Unit
BUN	17.54	mg/dL
CO2	186.77	mmHg
Serum chloride	109.62	mmol/L
Serum potassium	4.78	mmol/L
Serum sodium	142.94	mmol/L

**Complete Blood Count (CBC)** | Laboratory | Last completed 8 days ago

Test	Result	Unit
Red Blood Cell Count	5.42	cells/uL
Hemoglobin	14.01	grams/dL
Hematocrit	43.06	percent
White blood cell count	8.72	billion cells/uL
Platelet count	144.50	billion/uL
Protein count	343.779	g/L

**Urine Protein Electrophoresis Random** | Laboratory | Last completed 23 days ago

Test	Result	Unit
Urine value 1	1.26	mg/L
Urine value 2	4.41	mg/L
Urine value 3	5.31	mg/L
Urine value 4	1.25	mg/L

**Alanine Aminotransferase** | Laboratory | Last completed 24 days ago

Test	Result	Unit
Alanine Aminotransferase	29.67	U/L

**Alkaline Phosphatase** | Laboratory | Last completed 24 days ago

Test	Result	Unit
Alkaline Phosphatase	150.00	U/L

**AST (SGOT)** | Laboratory | Last completed 24 days ago

Test	Result	Unit
AST (SGOT)	150.00	U/L

**Lactate Dehydrogenase (LDH)** | Laboratory | Last completed 24 days ago

Test	Result	Unit
Lactate Dehydrogenase (LDH)	150.00	U/L

**Protein Electrophoresis** | Laboratory | Last completed 24 days ago

Test	Result	Unit
Protein Electrophoresis	150.00	U/L

**Urine Drugs of Abuse Screen** | Laboratory | Last completed 24 days ago

Test	Result	Unit
Urine Drugs of Abuse Screen	150.00	U/L

**Imaging**

**Abdomen Pelvis Contrast** | Computed Tomography | Last completed 1 month ago

**Kidneys Ureters Bladder (KUB)** | Radiography | Last completed 2 months ago

**Abdomen** | Ultrasound | Last completed 2 months ago

**Dopp Low Extr Ven Bilat/scan** | Ultrasound | Last completed 2 months ago

**Others**

**Social Work Referral** | Social Work | Last completed 3 days ago

**Infectious Disease Consult** | Infectious Disease (ID) | Last completed 2 months ago

**Wound Superficial Cut & Gram** | Microbiology | Last completed 9 days ago

**Urine Culture** | Microbiology | Last completed a month ago

Screenshot from our implementation




# UCI's summary page

← → ↻ ↺ ? 🔍

Stanic, Kristina

FH Clinical User

Logout

fraserhealth  
Info Health Services

Name: CCUCIONE, ONE TEST

PHN: 9746190042

Age: 41 Years

Gender: M

Summary

Encounters

Conditions

Allergies

Medications

Laboratory

Imaging

Procedures

Clinical Documents

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17/Oct/2017	AMARYL		Moderate
29/May/2017	FREE TEXT ALLERGY		Moderate

Medications

There is no data available.

Date	Medication	SIG
No results found, possibly due to your search criteria		

Encounters

More data is available

Admission Date	Type	Facility	Attending
<a href="#">19/Feb/2018</a>	NEW REFERRAL	Public Health	
<a href="#">13/Feb/2018 16:12</a>	Emergency	BC Childrens Ho...	David Wensley
<a href="#">5/Jan/2018 14:28</a>	Emergency	St. Pauls Hospital	Eric Jonathan ..
<a href="#">19/Dec/2017</a>	Unknown	VCHA Community	

Problems

More data is available

Date	Category	Problem
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12/Oct/2017 01:43:00	ALERT	Advance Care Plan

Labs

More data is available


Collected	Test	Specimen	Facility
<a href="#">8/Jan/2018 14:48</a>	<a href="#">Sodium</a>		Abbotsford Region...
<a href="#">8/Jan/2018 14:48</a>	<a href="#">Potassium</a>		Abbotsford Region...
<a href="#">8/Jan/2018 14:48</a>	<a href="#">Chloride</a>		Abbotsford Region...
<a href="#">11/Dec/2017 14:49</a>	<a href="#">Sodium</a>		Abbotsford Region...
<a href="#">11/Dec/2017 14:49</a>	<a href="#">Potassium</a>		Abbotsford Region...

When accessing UCI, the Summary page displays.

It provides a quick overview of Allergies, Encounters, Problems, and Laboratory Results

Quality of medical images in UCI may not be equivalent to images viewed on a radiology department PACS workstation

C.V.ID: 152 / 7.0

dbMotion

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# Our Overview tab

Kea  
David E.

ID 17772278  
Male, Age 43

#### Chief Complaint

Abdo Pain, Mod, +/- Episod N&V

#### Current Location

Discharged

#### Dietary Restrictions

Sodium Restricted 2 gm  
a month ago

#### Current Medications

#### Allergies

#### Patient Notes

New note here...

add to patient notes

no notes for this patient

#### Overview

Details (nothing selected)

Work Space (0 flagged)

Clinical Documents

#### Laboratories

Search Blood Count Chem Urea Crea Lytes Complete CBC Glu  
Magnesium Phosphorus Phosphate Partial Thromboplastin Time

##### Chem 6 - Urea, Crea, Lytes

Last completed 8 days ago Laboratory  
Feb 12th, 2031  
BUN 17.54 mg/dL  
CO2 22.07 mmol/L  
Glucose 106.73 mg/dL  
Serum chloride 109.62 mmol/L  
Serum potassium 4.78 mEq/L  
Serum sodium 143.94 mEq/L

Flag 3 notes Details 1 results not shown

##### Urine Protein Electroph Random

Last completed 23 days ago Laboratory  
Jan 28th, 2031  
fake value 0 7.26 mL/s  
fake value 1 4.41 mL/s  
fake value 2 9.31 mL/s  
fake value 3 1.25 mL/s

Flag 1 notes Details showing the only result

Alkaline Phosphatase  
24 days ago

AST (SGOT)  
24 days ago

Calcium  
24 days ago

Lactate Dehydrogenase (LDH)  
24 days ago

Retic Count  
24 days ago

Protein Electrophoresis  
24 days ago

Liver Function Tests (LFT)  
a month ago

Urine Drugs of Abuse Screen  
a month ago

D-Dimer  
2 months ago

Chem 7 - Glu  
R, Urea, Crea, Lytes

##### Complete Blood Count (CBC)

Last completed 8 days ago Laboratory  
Feb 12th, 2031  
Red Blood Cell Count 5.62 cells/L  
Hemoglobin 14.01 grams/dL  
Hematocrit 43.06 percent  
White blood cell count 9.12 billion cells/L  
Platelet count 144.93 billion/L  
Platelets 343779.85 platelets/mcL

Flag 10 notes Details 15 results not shown

##### Alanine Aminotransferase

Last completed 24 days ago Laboratory  
Jan 27th, 2031  
Alanine Aminotransferase 29.67 IU/L

Flag no notes Details 1 results not shown

Bilirubin, Total  
24 days ago

Partial Thromboplastin Time  
24 days ago

Creatine Kinase (CPK)  
a month ago

Magnesium  
a month ago

INR (PT)  
2 months ago

Gamma Glutamyl Transferase  
24 days ago

Peripheral Blood Film Smear  
24 days ago

C-Reactive Protein (CRP)  
a month ago

Phosphorus (Phosphate)  
a month ago

Ammonia  
2 months ago

#### Imaging

Search Abdomen Pelvis Contrast Chest Portable KUB Kidneys Ureters  
Bladder Dopp Low Extr Ven Bilat/scan CXR

##### Abdomen Pelvis

Contrast  
Last completed a month ago Computed Tomography  
Jan 19th, 2031

There is evidence of diffuse hepatic hypoattenuation compatible with fatty infiltration. There is no intra or extrahepatic biliary ductal dilatation. The patient is status post cholecystectomy. The spleen is normal. The



Flag 4 notes Details 2 results not shown

##### Kidneys Ureters Bladder (KUB)

Last completed 2 months ago Radiography  
Jan 4th, 2031

Flag no notes Details showing the only result

##### Abdomen

Last completed 2 months ago Ultrasonography  
Jan 3rd, 2031

##### Dopp Low Extr Ven Bilat/scan

Last completed 2 months ago Ultrasonography  
Jan 2nd, 2031

Venous duplex scan is a painless exam that uses high-frequency sound waves (ultrasound) to capture images of internal views of veins that



#### Others

Search Referral Culture Social Work Albumin Wound Gram ECG Adult  
Lead Infectious Disease Consult Urine Care

##### Social Work Referral

Last completed 3 days ago Social Work  
Feb 17th, 2031

Flag no notes Details 3 results not shown

##### Wound Superficial Cult & Gram

Last completed 9 days ago Microbiology  
Feb 11th, 2031

Flag no notes Details showing the only result

##### Infectious Disease Consult

Last completed a month ago Infectious Disease (SMH)  
Jan 12th, 2031

##### Urine Culture

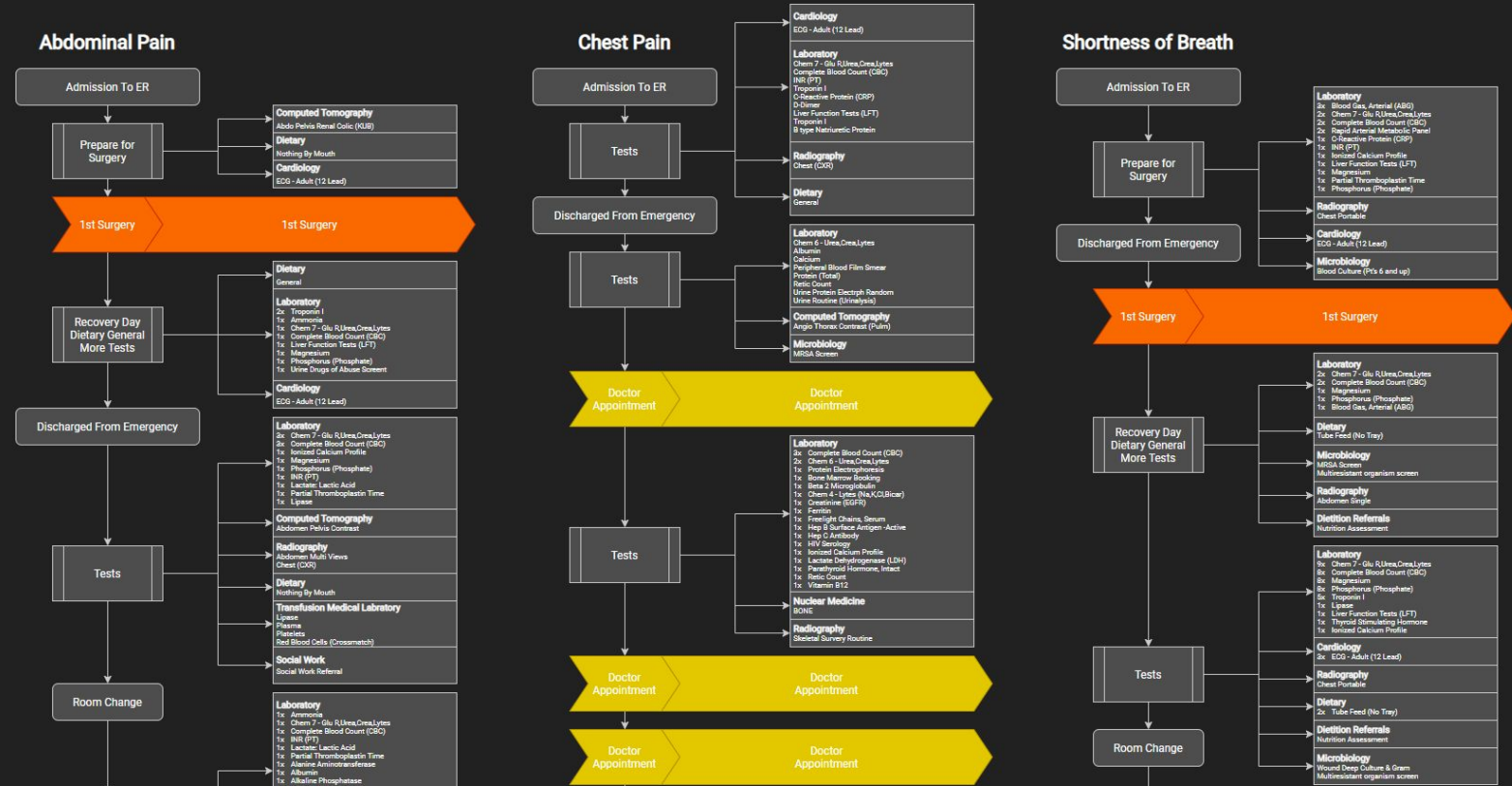
Last completed a month ago Microbiology  
Jan 5th, 2031

Room Change 1d Visited Surgery Room Change 1d Room Change 3d Visited 5d Visited 8d Room Change 3d Visited 0d Visited 1d Visited 0d Visited 11d Visited 24d Room Change filter limit

# Design based on the **Most asked questions** from health care workers

Clinical Documents		Laboratory		Imaging		Encounters		Patient Contacts		Provider Contacts		Conditions: Problems	
How do I find documents from a specific hospital?	9	How do I find a patient's recent lab results?	16	How do I find diagnostic images and reports?	7	How do I see if a patient receives community care?	5	How do I view patient contact information?	2	How do I find contact information for clinicians involved in the patient's care?	3	Can I see if a patient has had MRSA or VRE?	2
How do I find documents from VCH, PHSA & PHC?	5	How do I find lab results from LifeLabs or BC Bio?	12	How do I find diagnostic reports created by BCCA?	5	How do I view a patient's health care encounters?	3						
How do I view documents from VCH, PHSA & PHC?	5	How do I find lab results from LifeLabs or BC Bio?	12	How do I find the most recent CT Scan?	3	How do I see if my client has been discharged?	2						
How do I find documents from VCH, PHSA, & PHC?	4	How do I search for specific lab results?	12	How do I find the most recent diagnostic imaging?	3	How do I see if my client has been admitted?	2						
How do I find a MOST and ACP document?	3	How do I find a patient's lab results?	8	How do I find a patient's recent imaging reports?	2	How do I see if a patient receives community care?	1						
How do I find documents from a specific hospital?	3	How do I find lab results from LifeLabs or BC Bio?	6	Can I see the facility a procedure was performed?	1	How do I see providers involved in a patient's care?	1						
How do I find familiar faces care plans?	3	How do I find lab results from LifeLabs or BC Bio?	6	Can I see the facility a procedure was performed?	1	How do I view a patient's health care encounters?	1						
How do I find documents from BCCW Hospitals?	2	How do I find a patient's lab results from BCCDC?	4	How do I find recent medical imaging results?	1								
How do I view documents from VCH, PHSA, & PHC?	2	How do I find a patient's lab results from BCCA?	2	How do I find a patient's recent imaging reports?	1								
How do I view Wound Management Plans from FH Community?	2	How do I quickly identify abnormal lab results?	2	How do I find a patient's recent imaging reports?	1								
How do I view FH community documents?	2	How do I quickly find pathology reports?	1	How do I find diagnostic reports and images?	1								

# Informed by 3 patient journeys



# Features

## **Allows the physicians to**

- view the records in detail
- add and view notes of a record
- build a workspace encompassing the records of their selection
- search for a particular record with filters, name or time period
- travel through time of the patient's journey
- view the records from that perspective, and highlight abnormal results

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The screenshot displays a medical record interface with a top navigation bar containing tabs: Overview, Details (Chem 6 - Urea, Crea, Lytes), Work Space (0 flagged), and Clinical Documents. The main content area is titled "Chem 6 - Urea, Crea, Lytes" and shows a grid of patient records for various dates in 2031. Each record includes a date, a time period (e.g., "8 days ago"), and the location ("Laboratory"). The records are organized into two columns. The left column shows records for Feb 12th, 2031, Jan 27th, 2031, and Jan 24th, 2031. The right column shows records for Feb 7th, 2031, Jan 25th, 2031, and Jan 17th, 2031. Each record has a "Results" section with a table of values for BUN, CO2, Glucose, Serum chloride, Serum potassium, and Serum sodium. The "Serum sodium" value in the Feb 12th record is highlighted in red, indicating it is out of range. A "Notes" section is present for each record, with a "New note" button and a "save note" button. The Feb 12th record has a note: "Serum sodium is out of range and is reported to Dr. J Smith for further examination 8 days ago - Feb 12th, 2031". The other records have no notes.

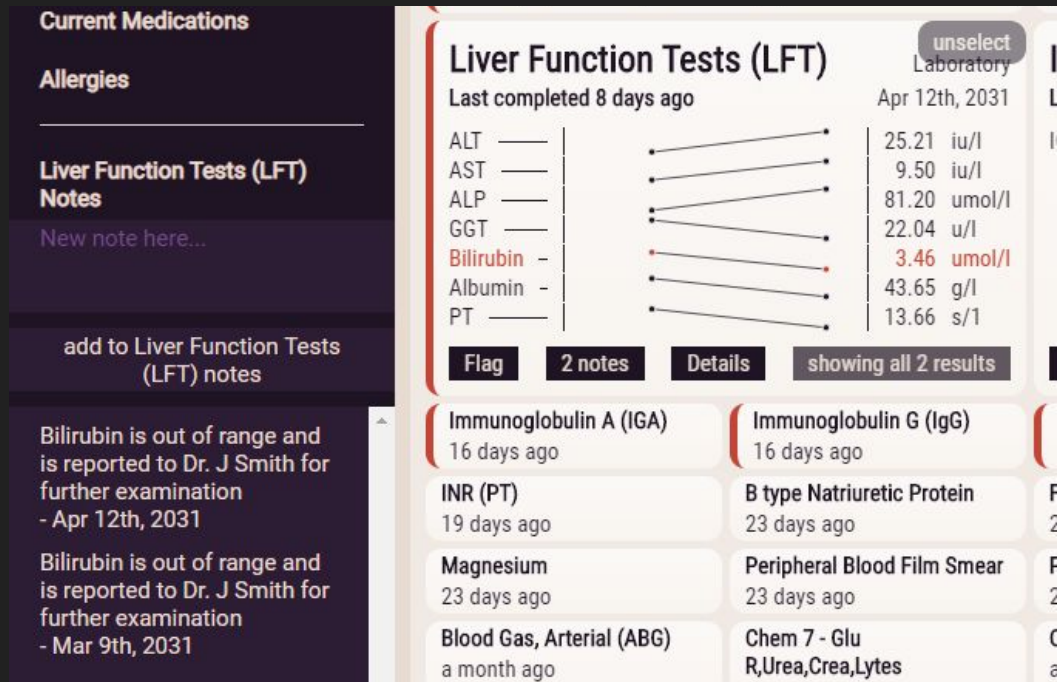
Date	Time Period	Location	BUN (mg/dL)	CO2 (mmol/L)	Glucose (mg/dL)	Serum chloride (mmol/L)	Serum potassium (mEq/L)	Serum sodium (mEq/L)	Notes
Feb 12th, 2031	8 days ago	Laboratory	17.54	22.07	106.73	109.62	4.78	143.94	Serum sodium is out of range and is reported to Dr. J Smith for further examination 8 days ago - Feb 12th, 2031
Feb 7th, 2031	13 days ago	Laboratory	14.71	21.83	100.67	110.15	4.31	142.88	no notes for this test
Jan 27th, 2031	24 days ago	Laboratory	17.84	25.81	80.38	107.09	4.19	138.53	no notes for this test
Jan 25th, 2031	a month ago	Laboratory	10.61	23.45	109.01	102.51	4.96	137.97	no notes for this test
Jan 24th, 2031	a month ago	Laboratory							
Jan 17th, 2031	a month ago	Laboratory							



# Features

## Allows the physicians to

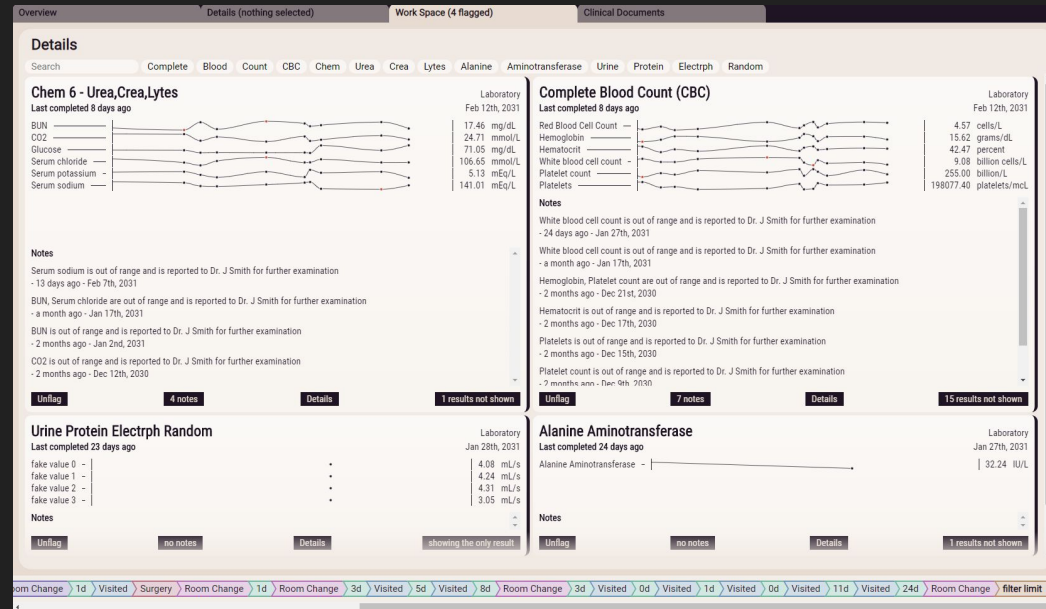
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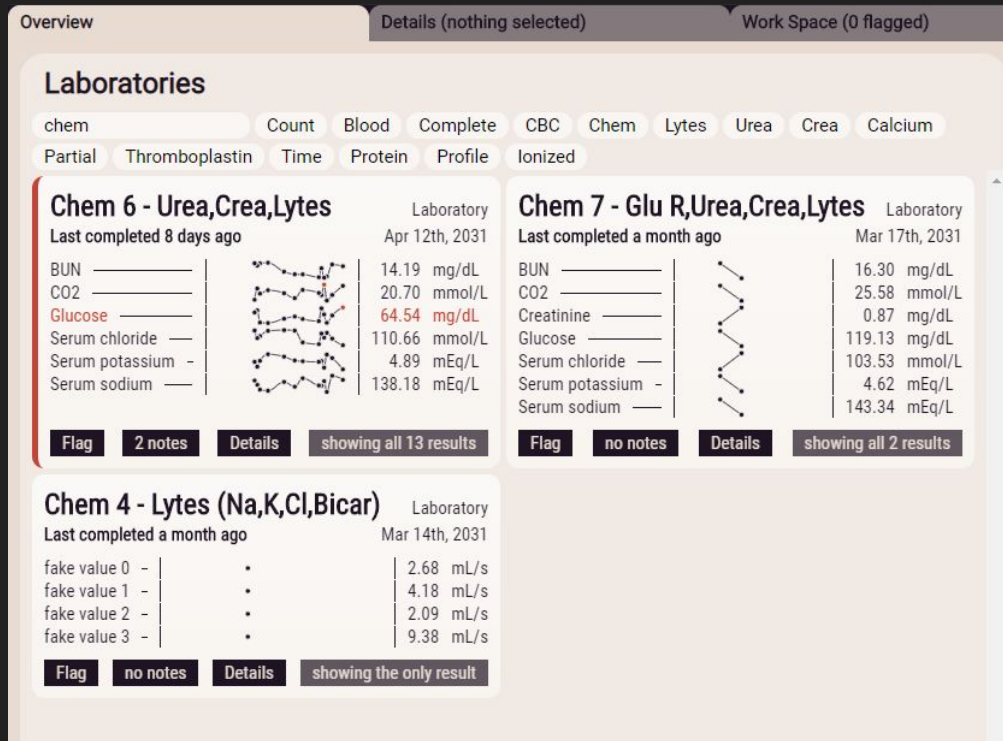




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The screenshot displays a medical dashboard with a grid of lab results and a timeline at the bottom. A purple tooltip is visible over the 'Surgery' event in the timeline.

**Lab Results Grid:**

Test Name	Value	Unit	Time Ago
Hematocrit	45.46	percent	a day ago
White blood cell count	4.19	billion cells/L	a day ago
Platelet count	262.45	billion/L	a day ago
Platelets	238303.43	platelets/mL	a day ago
Lactate: Lactic Acid			a day ago
Alkaline Phosphatase			a day ago
Gamma Glutamyl Transferase			a day ago
Lipase			2 days ago
Partial Thromboplastin Time			a day ago
AST (SGOT)			a day ago
Magnesium			a day ago
Ionized Calcium Profile			4 days ago
Alanine Aminotransferase			a day ago
Albumin			a day ago

**Timeline:**

Showing Items Before Dec 8th, 2030. Click to reset

Room Change > 0d > Room Change > 2d > Room Change > 1d > filter limit > Visited > Surgery > Room Change > 1d > Room Change >

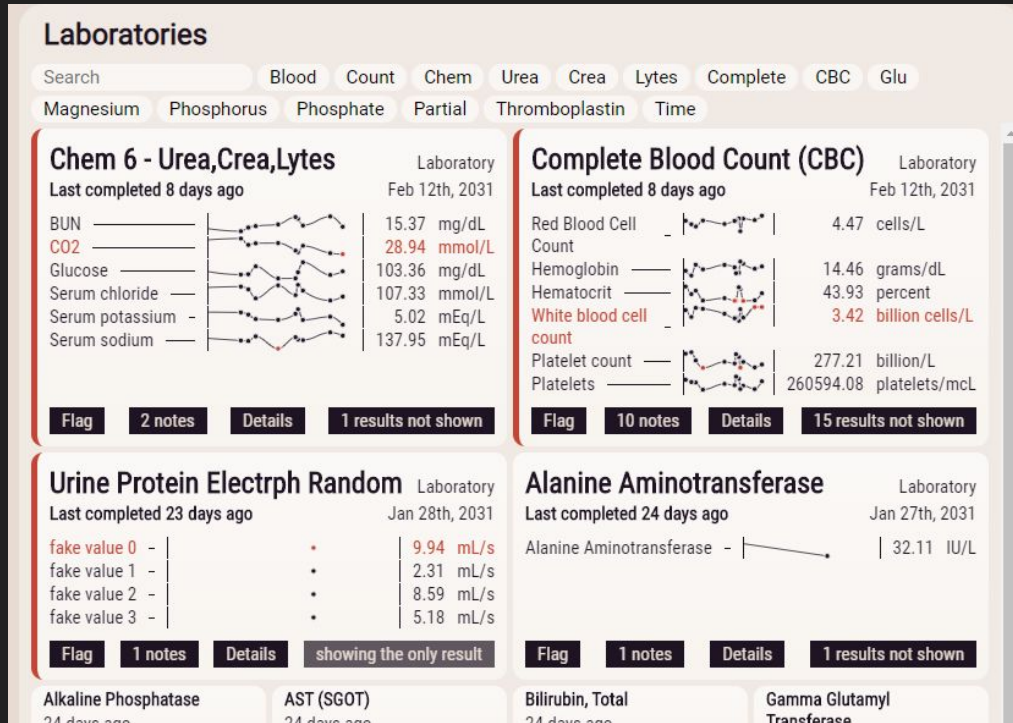
**Tooltip Content:**

- Surgery**
- Dec 8th, 2030 - Dec 8th, 2030
- events: 1
- Procedure: Small Bowel Resection, EXTENSIVE LYSIS
- Urgency: Elective
- Surgeon: Surgeon #2
- Anaesthetist: Anaesthetist #2

# Features

## Allows the physicians to

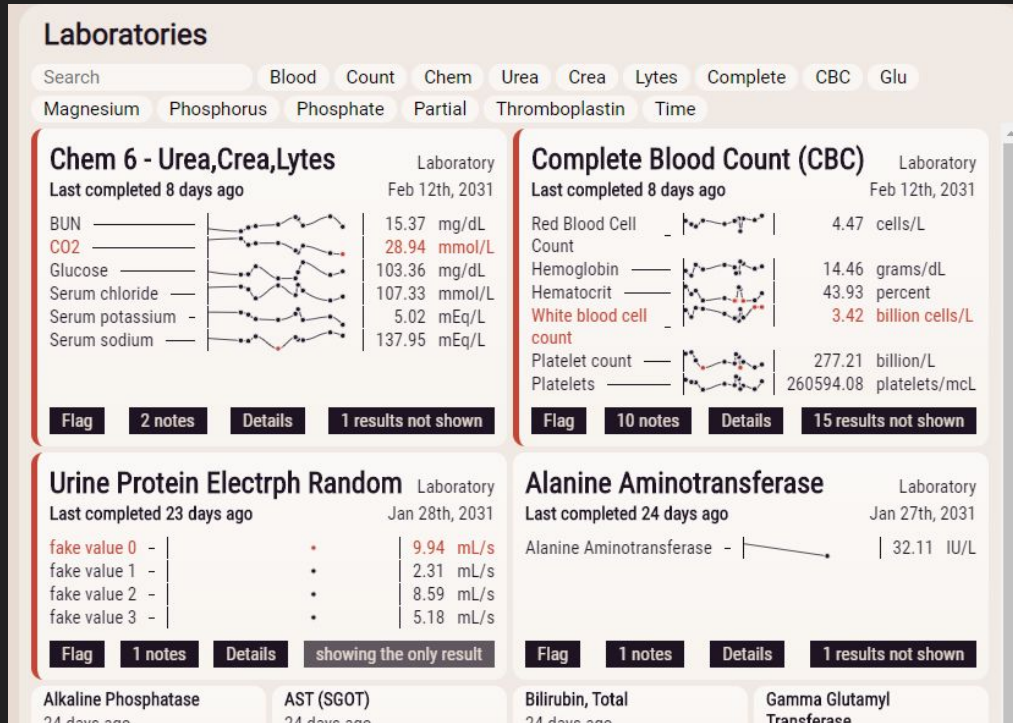
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# Tools used



HTML



SCSS



JavaScript



Vue.js



Moment.js



VegaLite



Fuse.js

Fuse.js

# Feedback

## After user testing with 4 experts from system optimization division of FH

- **What did they like?**
  - Web Platform (centralized, work from everywhere, compatible with any device)
  - Capability to see details for a point in time
  - Capability of highlighting results higher than normal
  - Navigation using keys
  - Ability of creating a workspace
  - Very informative
- **What did they not like?**
  - Design aspects such as colour and hierarchy seen in the page
  - Tabs as one user believed that windows are better
  - Not friendly for first time users
  - Overwhelming at first glance

# Future Directions

## In the future, we will work on

- Testing with physicians on their experience with the software
- Incorporating graphic design principles resulting in a professional software