# **Health Clinical System**

COMP308 Group Project

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## **Team**

# ▶ Liping Wu

- ► Business and Requirements Analysis and Design
- ▶ Database Models design and implementation
- ▶ Back End / Front-End/ REACT Al/ Youtube
- ► Testing / Code Organization
- Documentation

# ► Zhaobin Bu

- project analysis and design
- ▶ Back End / Front-End/Diagram

# ► Yanbo Wang

► Sign up and log in



# Project Architecture and Technology

- Back-end: NODE.JS / MONGODB / EXPRESS
- Front-end: REACT
- Al- Tensorflow
- Creative: Youtube framework, Diagram

# Home Page

#### Clinic System - Homepage

we do support three different roles: admin, nurse and patient. you can only register a new nurse or patient user account.

- View my profile
- Register
- login/logout
- Nurse add/drop patient
- Nurse Send/preview/delete Daily motivational tips to a specific patient
- Nurse entry/preview/delete the vital signs for a specific patient
- Nurse view all history data of patient's vital signs
- · Nurse view/reply the daily information of patient
- · Nurse view/reply patient's emergency alerts
- patient view his/her Daily motivational tips and play the youtube video sending from nurse
- · patient send emergency alerts to nurse
- patient view all my emergency alerts and response from nurse
- · patient add daily information of vital signs
- · patient view health history and nurse reply
- Al to predict health risk
- · Patient can read Diagrams of all his health data

# Patient sign up

#### Please Sign Up Email Address: p005@test.com Password: First Name: John Last Name: John Address: 1 front st City: toronto Phone Number: 6471112222 Date of Birth: 2020-04-20 Patient Nurse User Role: DoB must be past. Register

#### Email Address: nancy@test.com Password: \*\*\*\*\*\* First Name: nancy Last Name: Address: 123 Mccowan Rd City: toronto Phone Number: 647-111-2222 Date of Birth: 1969-01-01 Patient • Nurse User Role: Register

Please Sign Up

# **Admin**

Please sign in				
Email Address	nancy@test.com			
Password				
	user account is not actived yet			
	Login in			
	Modify Role			

# Email: p005@test.com first Name: John Last Name: John Role: patient Actived: \*Yes No

#### **User Account Management**

Email	First Name	Last Name	Role	Actived		
nurse@test.com	Agenla	Wu	nurse	Yes	Edit	Delete
p002@test.com	Tina	Wu	patient	Yes	Edit	Delete
admin@test.com	Admin	Wu	admin	Yes	Edit	Delete
p001@test.com	Kathy	Chen	patient	Yes	Edit	Delete
nurse2@test.com	Grace	Wu	nurse	Yes	Edit	Delete
p003@test.com	Vivian	Wu	patient	Yes	Edit	Delete
foxpeer@gmail.com	LIPING	Wen	patient	No	Edit	Delete
p005@test.com	John	John	patient	No	Edit	Delete

#### **Modify Role**

	Email:	
nancy@test.com		
	first Name:	
nancy		
	Last Name:	
white		
	Role:	
nurse		
	Actived: ● Yes ● No	

Update users

# Nurse-view all patients

		ents		
Email	First Name	Last Name	Actived	
p002@test.com	Tina	Wu	Yes	Accept
p001@test.com	Kathy	Chen	Yes	Accept
p003@test.com	Vivian	Wu	Yes	Accept
foxpeer@gmail.com	LIPING	Wen	Yes	Accept
p005@test.com	John	John	Yes	Accept



# Nurse-accept /drop patient

# **Accept Patient** Email: p005@test.com first Name: John Last Name: John health Card Number: Nurse: => Accept



nancy white

# Nurse- Patient health history

# **Patient Health History**

Enter Vital Signs

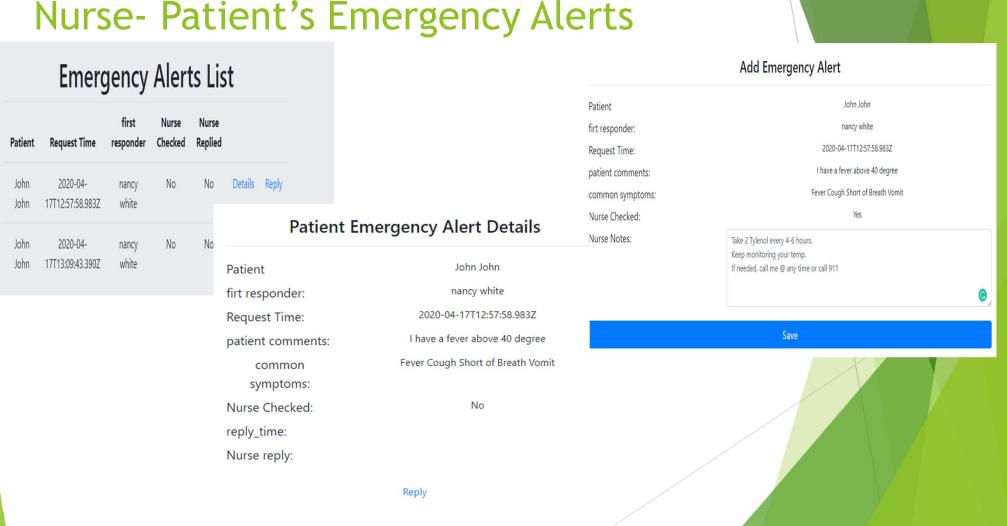
Patient	Measured Date	Measured method	Read by Nurse	Notes from Nurse		
John John	2020-04- 17	Daily info	No	No	Details	Add
John John	2020-04- 15	Daily info	No	No	Details	Add
John John	2020-04- 01	Daily info	No	No	Details	Add
John John	2020-04-	Daily info	No	No	Details	Add

#### John John Patient: Daily information Measured Method: first responder: nancy white Measured Time: 2020-04-17 **Body Temperature:** 40 Heart Rate: 90 Respiratory Rate: 18 High Blood Pressure: 120 Low Blood Pressure: 80 Weight: Nurse Notes: Take 2 Tylenol every 4-6 hours. Keep monitoring your temperature. I will follow up every 4-6 hours. If the breath is difficult, call 911 directly

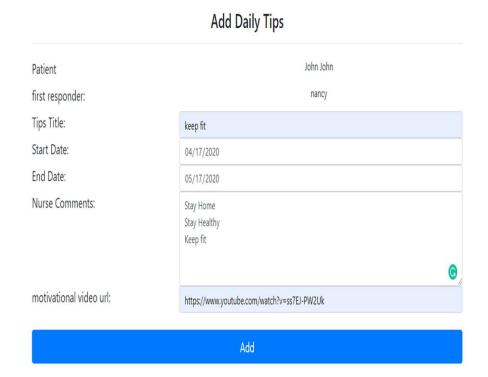
Save

**Add Vital Sign** 

# Nurse- Patient's Emergency Alerts



# Nurse -add Daily tips to a patient



#### **Patient Daily Tips Details**

Patient John John first responder: nancy white

Post Time: 2020-04-17T12:49:31.952Z

 start date:
 2020-04-17

 end date:
 2020-05-17

 Daily Tips:
 keep fit

Daily Tips: keep fit

Nurse Comments: Stay Home Stay Healthy Keep fit

Motivational Video:

https://www.youtube.com/watch?v=ss7EJ-PW2Uk



Delete

# Nurse- Creat a Post to all her patients

#### Create A Post

Title:

Stay home and drink more water

Content:

Stay home and drink more water

Push The Post

# Patient- View my daily Motivational tips



Patient	first t responder	Start Date	End Date	Daily Tips	
John John	nancy white	2020- 04-17	2020- 05-17	keep fit	Details

#### **Patient Daily Tips Details**

Patient John John first responder: nancy white

Post Time: 2020-04-17T12:49:31.952Z

 start date:
 2020-04-17

 end date:
 2020-05-17

 Daily Tips:
 keep fit

Nurse Comments: Stay Home Stay Healthy Keep fit

Motivational Video: https://www.youtube.com/watch?v=ss7EJ-PW2Uk



Patient- add an Emergency alert to the

nurse



# **Emergency Alerts List**

Send an Emergency Alert

Patient	Request Time	first responder	Nurse Checked	Nurse Replied	
John John	2020-04- 17T12:57:58.983Z	nancy white	No	No	Details
John John	2020-04- 17T13:09:43.390Z	nancy white	No	No	Details

# Patients- add daily vital signs

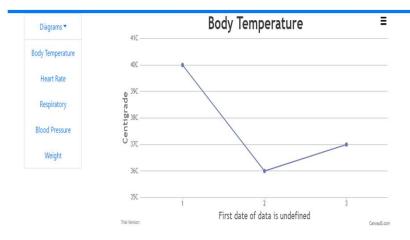


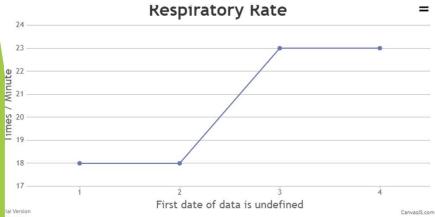
Add

# **Patient Health History**

Patient	Measured Date	Measured method	Read by Nurse	Notes from Nurse	
John John	2020-04- 17	Daily info	No	No	Details
John John	2020-04- 15	Daily info	No	No	Details

# **Diagrams**







### Al

# Al Game - predict your health risk in the future (still testing and improving)

	Body Temperature:	
37.2		
	Heart Rate:	
60		
	Respiratory Rate:	
14		
	High Blood Pressure:	
120		
	Query	
	Health Risk:	
dont know		

# Al Game - predict your health risk in the future (still testing and improving)

	Body Temperature:	
37.2		
	Heart Rate:	
60		
	Respiratory Rate:	
14		
	High Blood Pressure:	
120		
	Query	
	Health Risk:	
hypertension		

# Q&A Thank you!