Robustness, Sequence, Static Class, Technical Architecture

Patient Monitoring System

Robustness & Sequence Diagrams
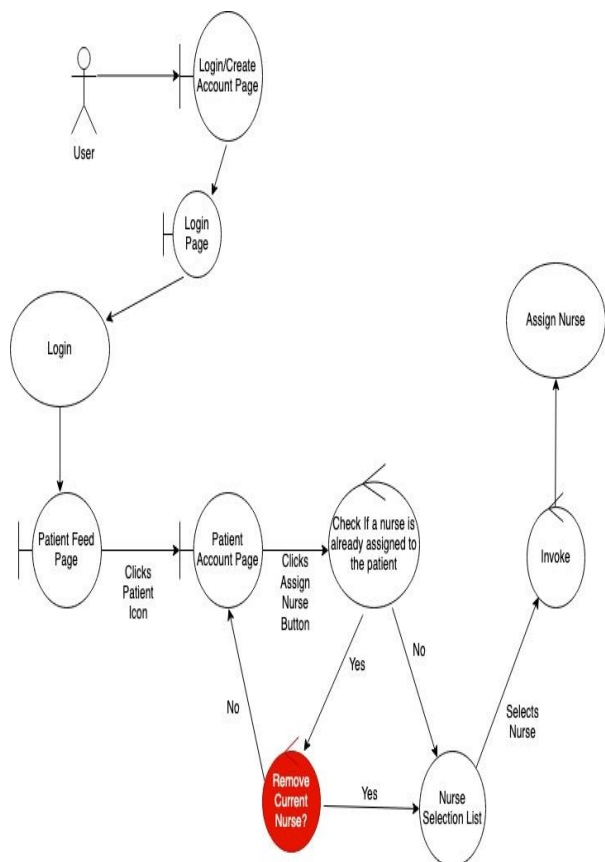
User assigns nurse to patient (Alphonso)

BASIC COURSE

A user (doctor, nurse) will login with their credentials and enter the patient feed page. The user will click on a patients' icon and go to that patients' profile. The user will click on the "Assign Nurse" button and the system will verify if a nurse is already assigned to the patient or not. The user will then select an available nurse from the Nurse Selection List to be assigned as the patients Active Nurse.

ALTERNATE COURSES

User attempts to assign nurse to patient who already has an active nurse: User clicks on assign nurse button on patient profile who already has an active nurse. The user will be displayed an error message, and the system will not allow the user to do this until the current active nurse is removed from that patient.

User assigns nurse to patient (Alphonso)

BASIC COURSE

When a user login in with their credentials and enters the live feed window they will have the capability to click on a patients icon on the feed and go to that patients' profile. Within the patients' profile there is an "Assign nurse" button, if a patient does not currently have an active nurse the user can choose a nurse within the application and assign that nurse to that patient.

ALTERNATE COURSES

User attempts to assign nurse to patient who already has an active nurse: If a user attempts to assign a nurse to a patient who already has an active nurse the user will be displayed an error message. The system will not allow the user to do this until the current active nurse is removed from that patient.
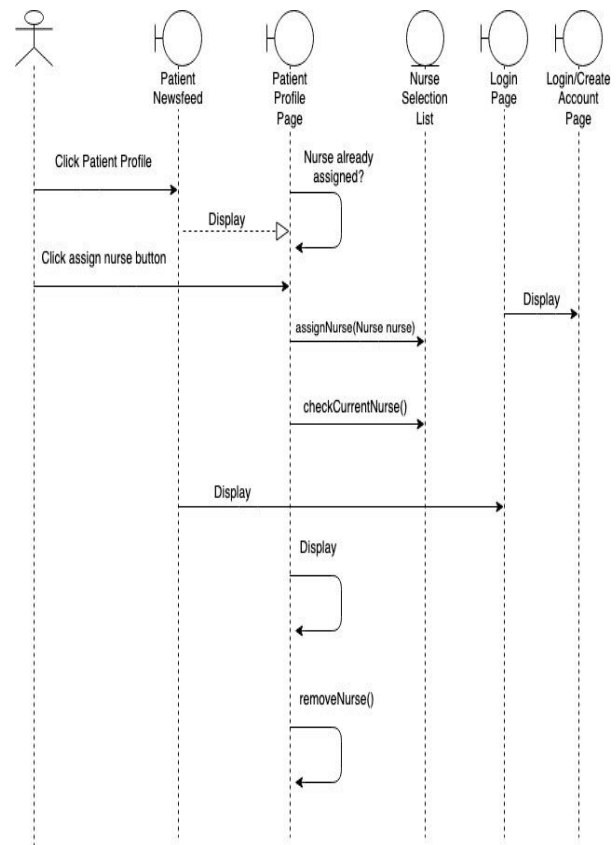
Creating an account (Dhruvil Joshi)

BASIC COURSE

The application will require the user to login or sign up in order to use the account. When creating the account, the user will be asked the hospital, name, position/role, username, email, and the employee id if they work at the hospital. After creating the username, they can use their given department password which will give them access to the live feed of the department.

ALTERNATIVE COURSE

User creates a new account with the same email: Application displays an error message to prompt them to use a different email or login with that email.

If any field is left blank: Application displays an error message and prompted to enter text in all fields.

If the username field is taken: Application displays an error message and prompted to enter different text.

If a field is not selected from the drop-down menu: Application displays an error message and prompted to select an entry for the specific field.
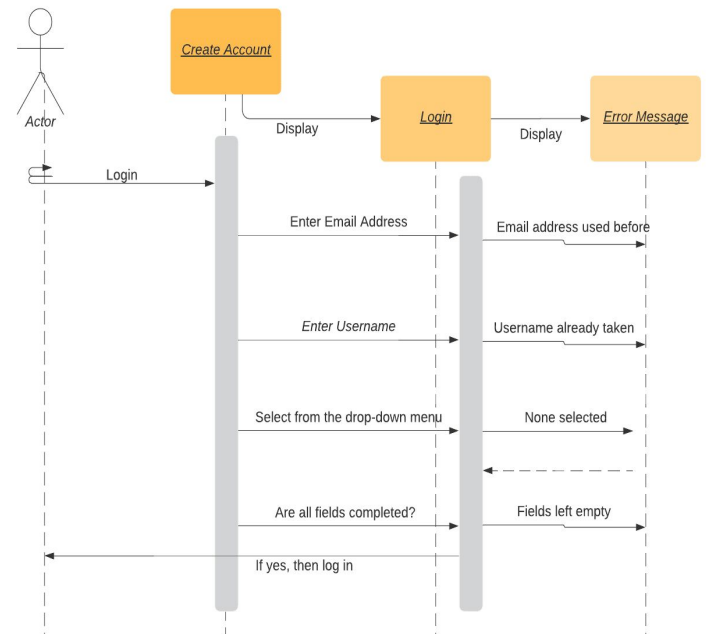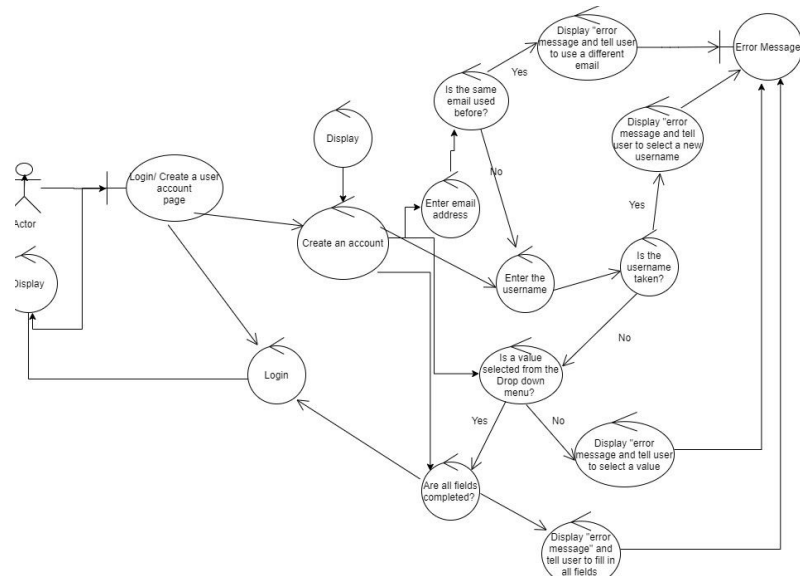
Create Doctor Standing Order (Charles)

BASIC COURSE

A doctor on the live feed page clicks on a patient's icon, then the system displays that patient's patient profile. The doctor enters text for a standing order and clicks submit, then the system checks if the text is empty or greater than 1MB. If not, the system updates the standing orders and patient profile.

ALTERNATE COURSES

Doctor attempts to create a blank standing order: If a user attempts to create a blank standing order, the system displays an error page.

Standing Order text >1MB: If a doctor attempts to create a standing order with more than 1MB of text, the system displays an error page.
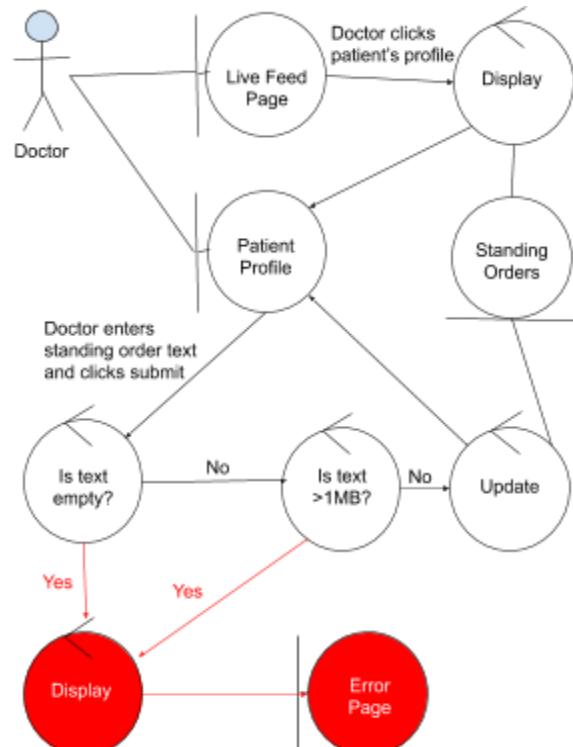

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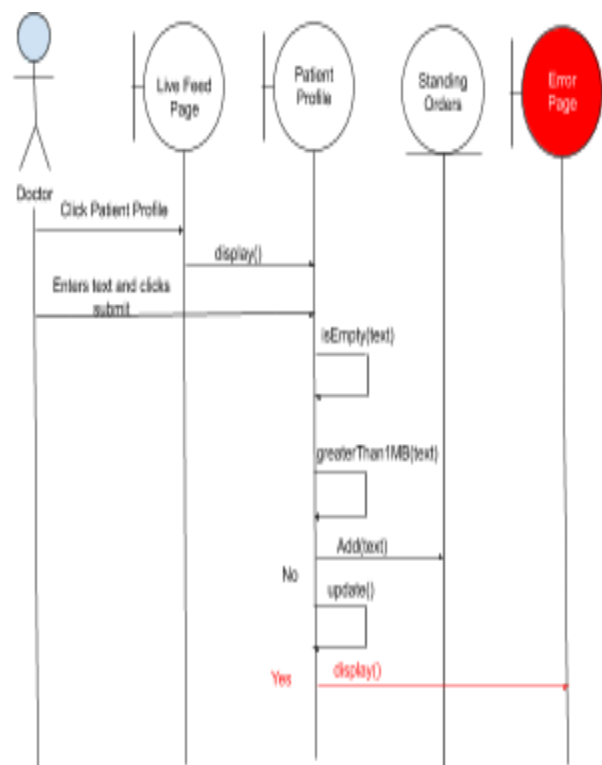
more than 1MB of text, the system displays an <u>error page</u>.	

Sign In Patients (Sean Todd)

BASIC COURSE

User clicks Sign In Patients in the menu on the Live Feed. System checks if user is logged in, then displays Sign In Patients Page. System prompts the user to enter Patient Information in text fields and select Triage Tag via drop down menu. User clicks Sign In button and then Patient Information and Triage Tag are stored in Database.

ALTERNATE COURSES

User is not logged in: System sends user to log in page.

Any field left blank or Triage Tag not selected: System displays Error Message prompting the user to enter text into empty field(s) and select triage tag.
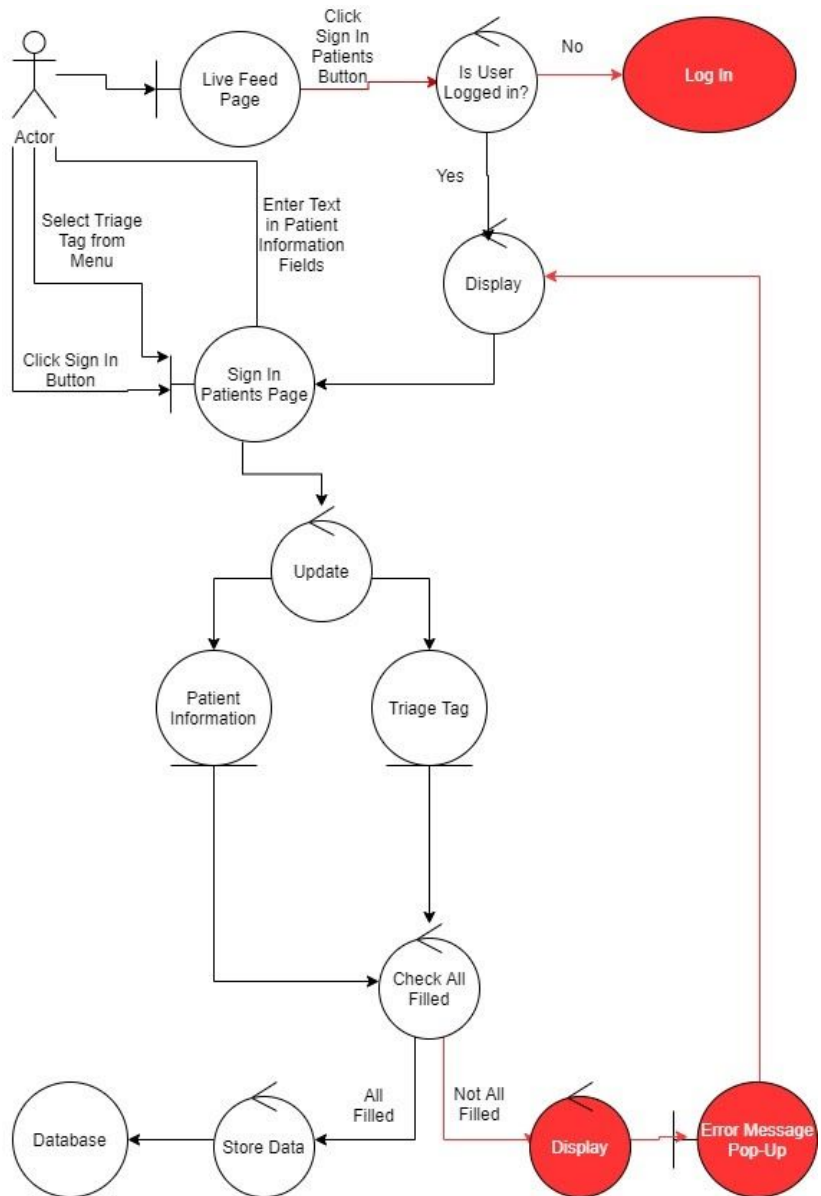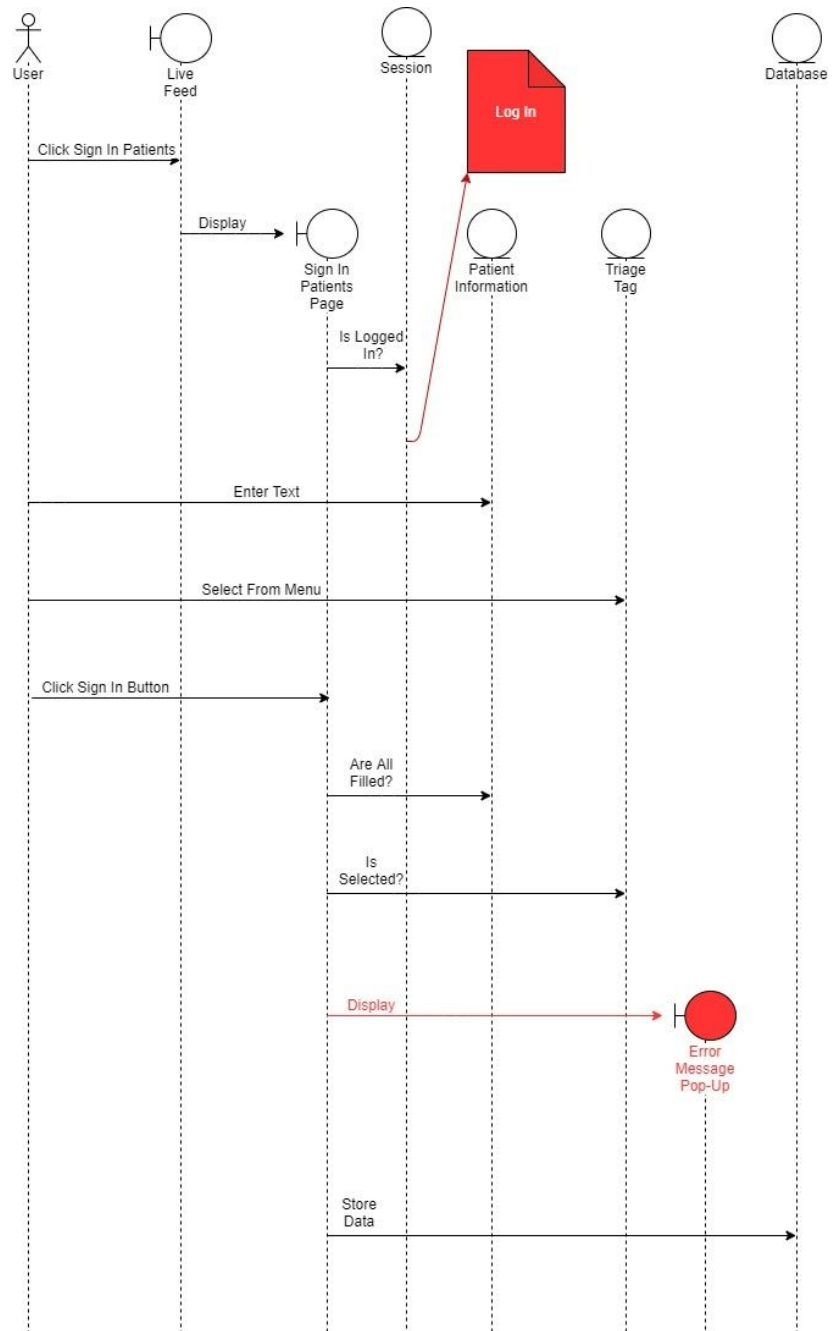
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ALTERNATE COURSES

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Any field left blank or Triage Tag not selected: System displays Error Message prompting the user to enter text into empty field(s) and select triage tag.

User
Live Feed
Session
Log In
Database

Click Sign In Patients

Display

Sign In Patients Page
Patient Information
Triage Tag

Is Logged In?

Enter Text

Select From Menu

Click Sign In Button

Are All Filled?

Is Selected?

Display

Error Message Pop-Up

Store Data

Direct Messaging (Logan Kollar)

Basic Course

The application allows accounts to message one another directly through the app. This is universal amongst the departments at the hotel as this will allow information to be passed in case of an emergency. A filter may be used to speed up the process of finding a user.

Alternative Course

User not found: If the person they are trying to search does not exist within the database then an error message will be displayed informing the user of this.
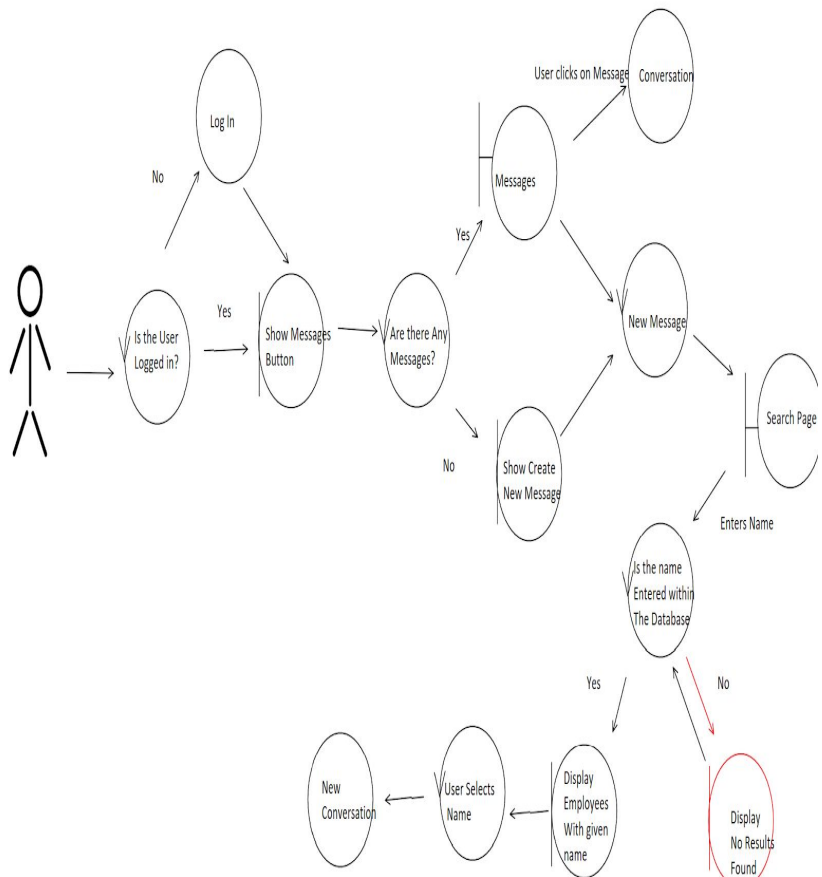

Direct Messaging (Logan Kollar)

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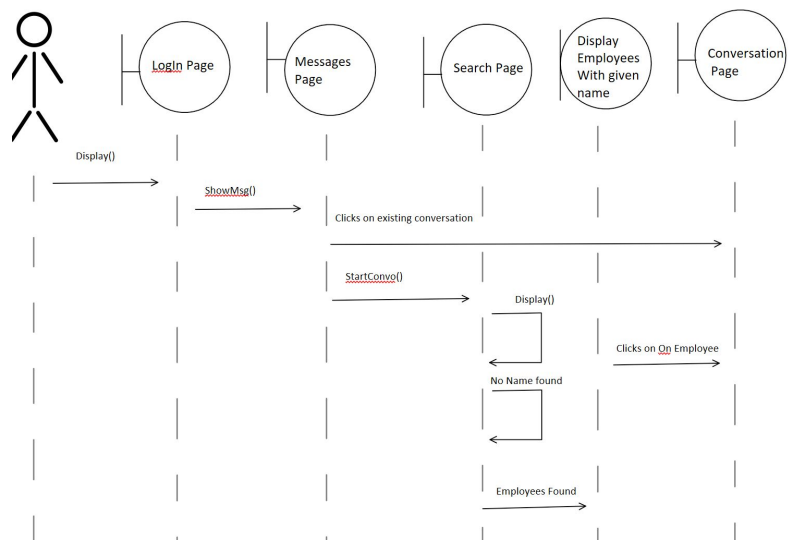
Alternative Course **User not found:** If the person they are trying to search does not exist within the database then an error message will be displayed informing the user of this.	

Static Class Diagram

Doctor

- Name
- Department
- User Name
- Employee ID

+ assignNurse()
+ sumbitStandingOrder()
+ deleteStandingOrder()
+ editStandingOrder()
+ addPatient()
+ createChart()
+ editChart()

Patient

- Name
- Description
- Resting Heart Rate
- Body temperature
- Triage Tag
- Hieght
- Weight

Nurse

- Name
- Department
- User Name
- Employee ID

+ addPatient()
+ createChart()
+ editChart()

Department

- Title
- Department Password

Direct Message

- Sender
- Recipient
- Message

+ sendMessage()

Chart

- Description

Standing Order

- Author
- Description

Receptionist

- Name
- Department
- User Name
- Employee ID

+ addPatient()

Technical Architecture