Team Members: Adam C., Erin S., and Branden R.

Team Name: SCRRRR

Roles: Leader: Erin
Recorder: Adam

Link to Github Repo: https://github.com/erinmshenk/SoftwareDevProject

Class and Object Diagrams:
        Branden:
                -Answer form questions
                -Log in to the website
                -Create new patient file
        Adam:
                -Search database
                -Measure height/weight/vitals
                -Perform tests
        Erin:
                -Prescribe medication and stuff
                -Edit patient file
                -Record notes regarding patient
                -admit/dont admit patient

GUI Prototype/Activity Diagram:
        Adam:
                -sign in page
                -new patient record (registrar)
        Branden:
                -nurse records
                -doctor records
        Erin:
                -doctor diagnosis/treatment
                -billing interface

Figure 2-21 The warehouseOnFire scenario for the ReportEmergency use case.
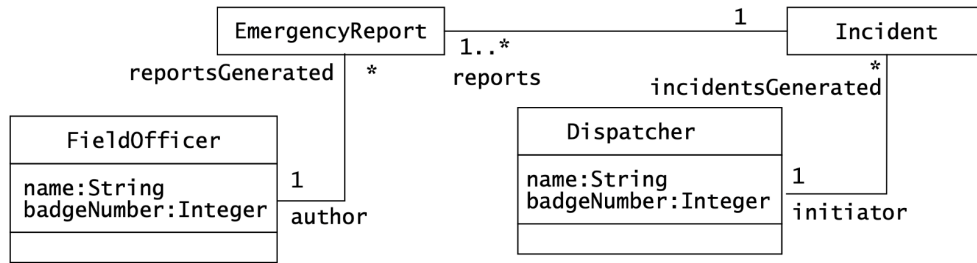

Figure 2-22 An example of a UML class diagram: classes that participate in the ReportEmergency use case. Detailed type information is usually omitted until object design (see Chapter 9, *Object Design: Specifying Interfaces*).
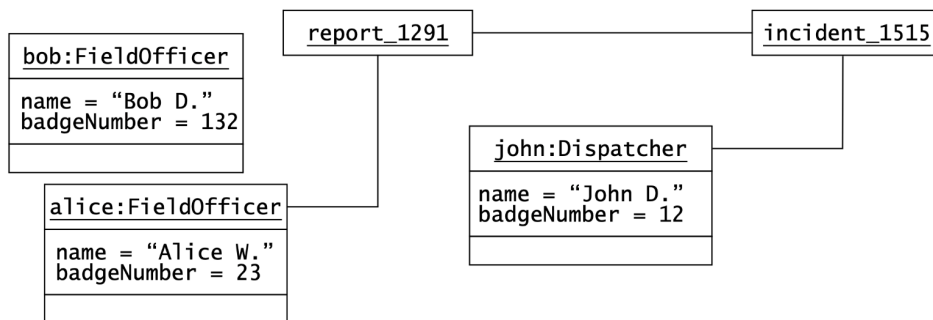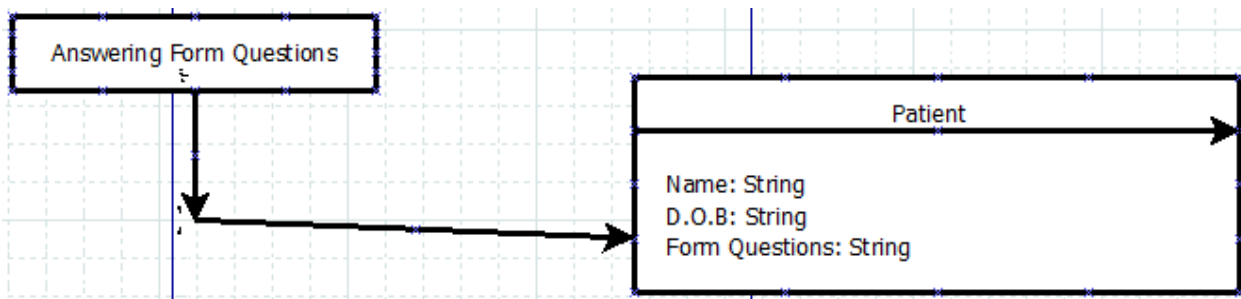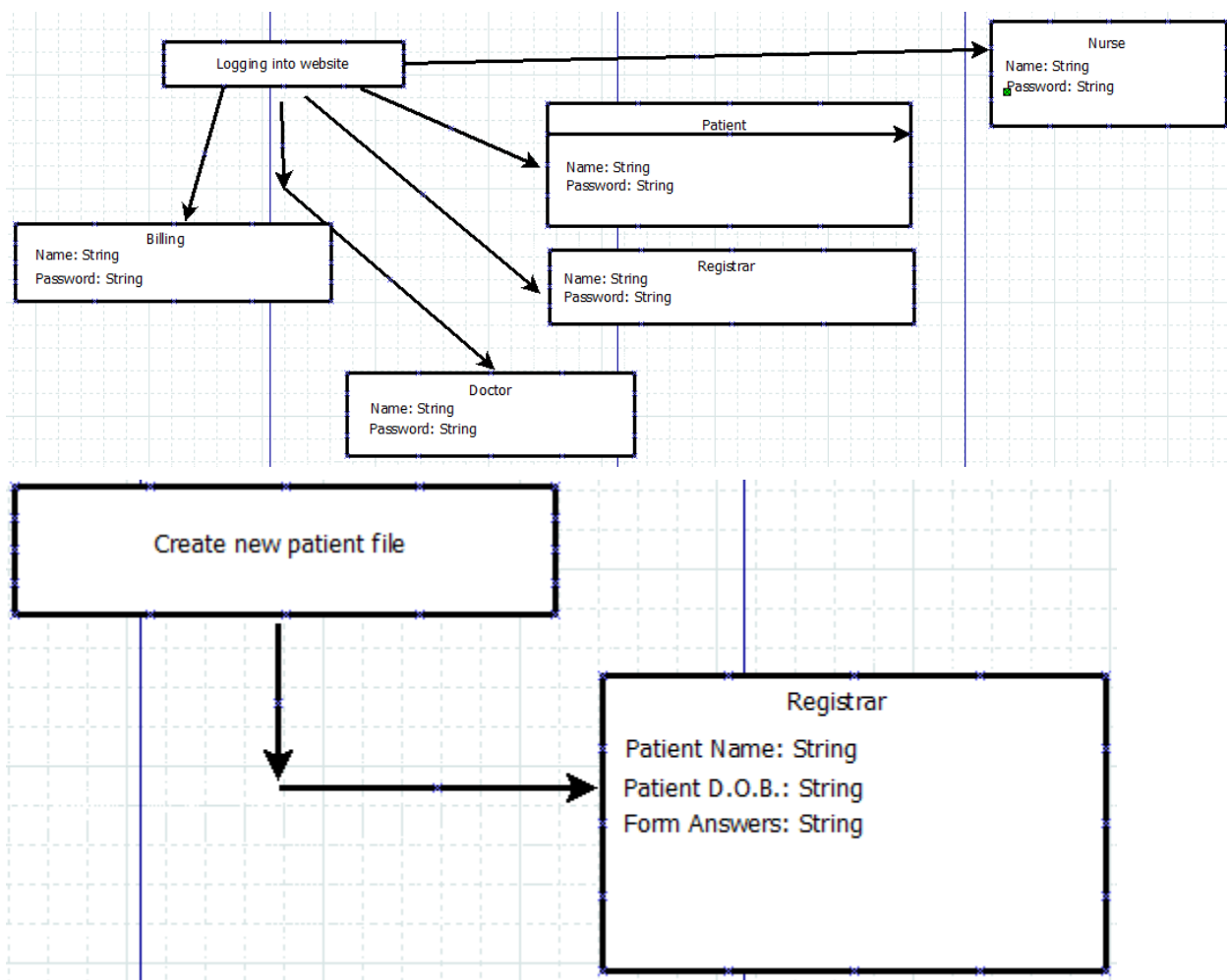
Figure 2-23 An example of a UML object diagram: objects that participate in warehouseOnFire.

Class Diagram

Logging into website

Nurse
Name: String
Password: String

Patient
Name: String
Password: String

Billing
Name: String
Password: String

Registrar
Name: String
Password: String

Doctor
Name: String
Password: String

Object Diagram

Create new patient file

Registrar
Patient Name: String
Patient D.O.B.: String
Form Answers: String

Branden's Class and Object Diagrams: (Above)

Nurse

Nurse receives info from registration

↓

Nurse Performs exam of patient

↓

Nurse records data

↓

Nurse sends data to doctor

Decision

Doctor

Doctor receives data from nurse → ◇ → Doctor does not update records

◇ → Doctor orders tests → Doctor sends data to billing

↓

Doctor performs own exam

↓

Doctor records findings
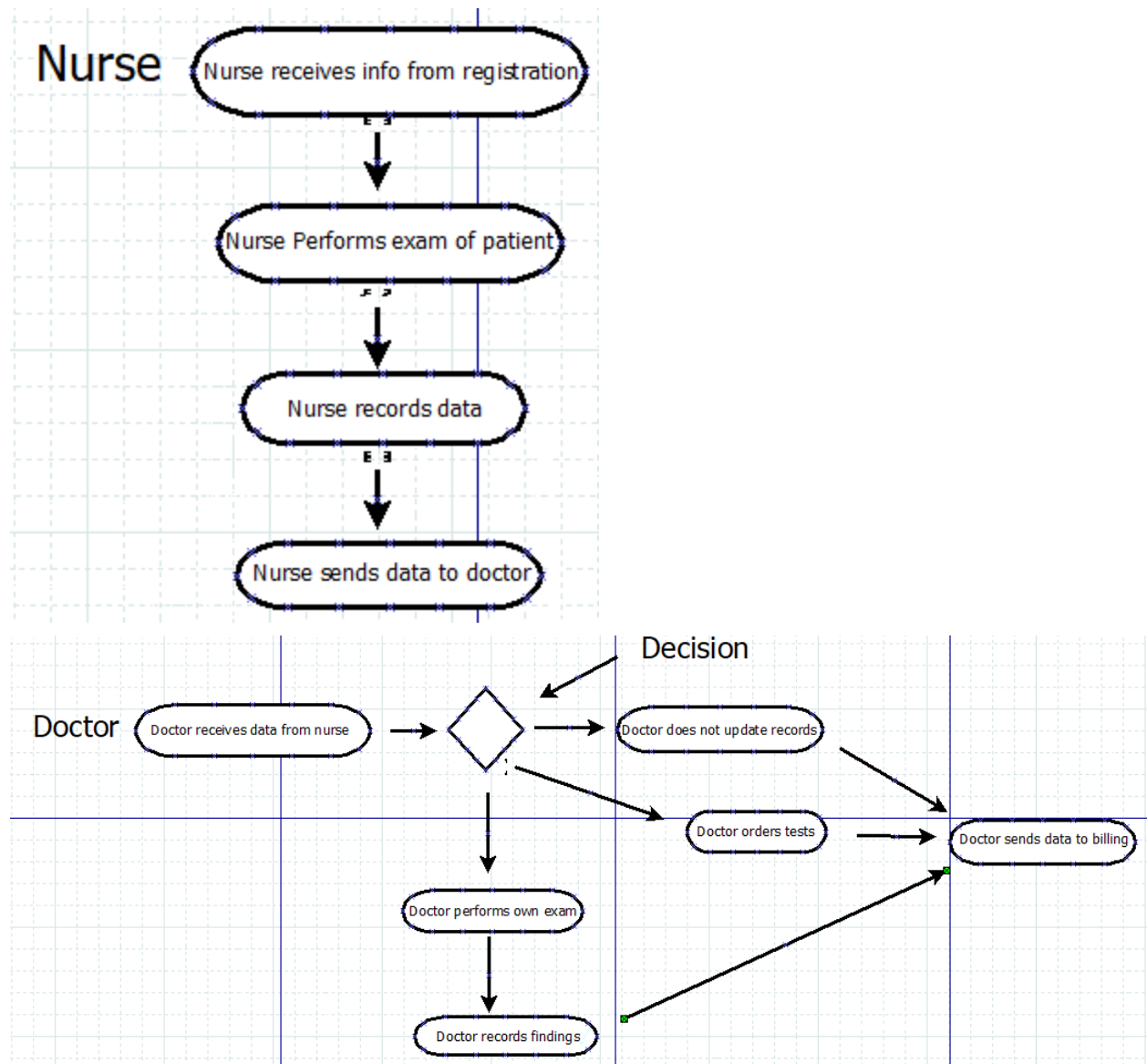
Branden's UML Diagrams: (Above)

Adam's 1st activity diagram (signing into the system)

Signing In

All Actors

User clicks on the text box next to Username

User types in their username

User clicks on the text box next to Password

User types in their password

User presses submit
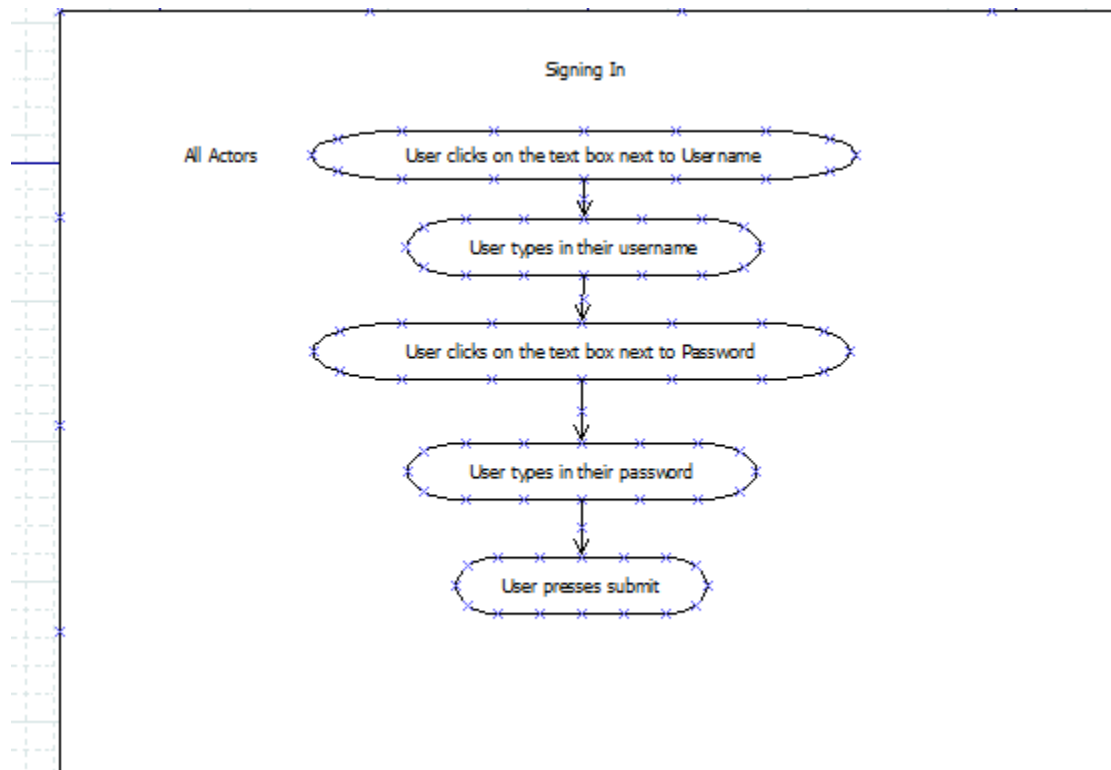
Adam's 2nd activity diagram (entering new patient data)

Entering New Patient Data (Patient/Registrar)

Registrar gives patient paper form

New patient answers all questions on the form

Patient returns form to registrar

Registrar creates a new file in the system for the patient

Registrar enters the information from the form into the new file

Registrar saves the file to the database
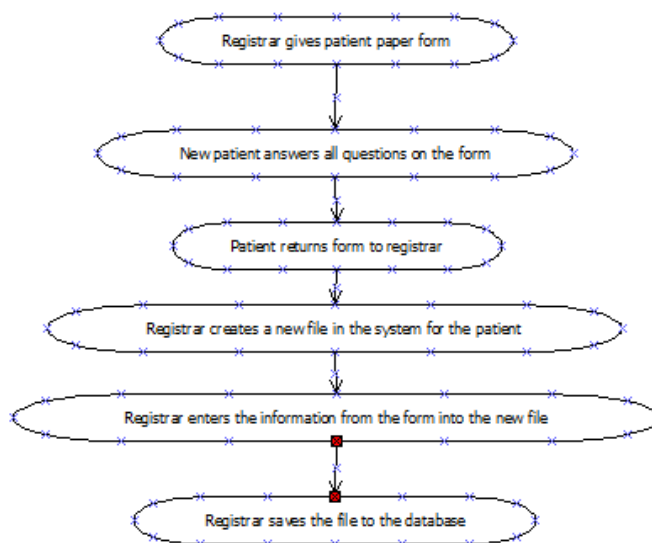
Adam's 1st GUI (signing into the system)

Welcome to the Home Page!

Please Sign in below

Username: | Textbox

Password: | Textbox

Submit

Adam's 2nd GUI (entering new patient data)

Enter The New Patient's Data

First Name

Last Name

Date of Birth

Address

Zip Code

Social Security Number

Primary Insurace Provider

Primary Physician

Height

Weight

COVID Vaccine Provider

Booster Provider

Symptoms

Allergies

Medications

Medical Conditions

Alcohol/Drug Usage

Adam's 1st class diagram (searching the database)

Searching the Database

Registrar/Nurse/Physician/Billing Department — Computer System

User Enters a patients First Name/Last Name/SSN

Server searches the database for the keywords

System displays all patient files with matching keywords

Was target file displayed

If the target patient file is not displayed, user can search with new keywords

If target patient file is displayed, user selects the patient file they are searching for

System displays the patients file information

Adam's 2nd class diagram (measure height/weight/vitals)

Recording Measurements (Height, Weight, Vitals)

Nurse — Patient — System

Directs patent to remove their shoes and other items

Removes shoes and other items

Measure patients height

Measure patients weight

Measure patients vitals

Put on shoes and retrieve items

Enter newly recordeed data into patients digital file

Store newly added patient data
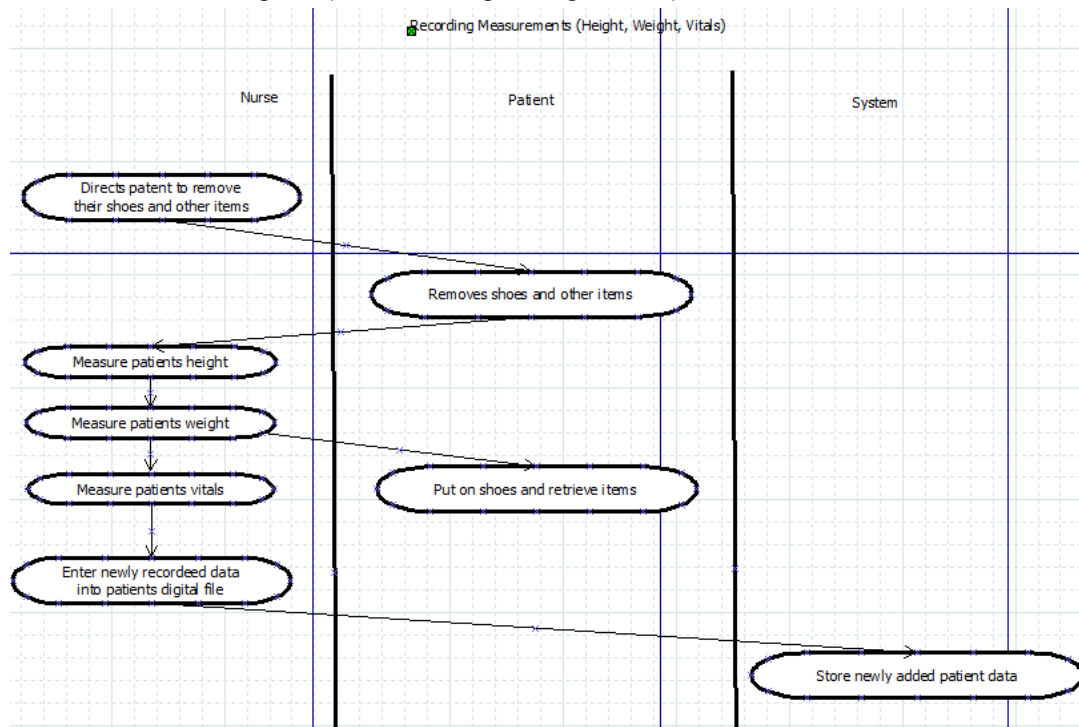
Adam's 3rd class diagram (performing lab tests)

Perform Lab Tests

Physician

Patient

Decides patient needs to recieve a lab test

Explains process to patient

Carries out lab test

Carries out lab test

Examines results

NURSE

Vitals

Blood Pressure

Weight

Height

Night's Admitted

Is the patient admitted

Pre - Treatment

Observation Notes

Doctor

Are tests needed?

Type of tests needed

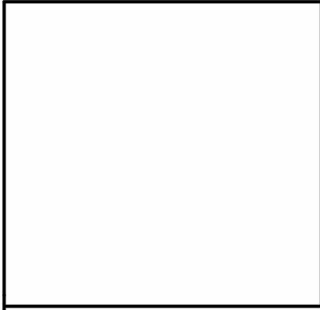Medications Prescribed

Patient Diagnosis

Discharge Instructions

Update Symptoms

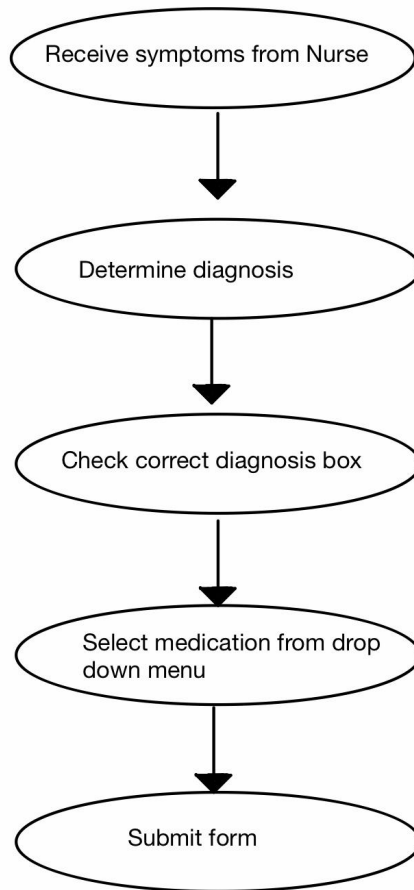Observation Notes

Doctor diagnosis/treatment

Symptoms:

Medication:

| Choose One: | ↓ |

Diagnosis:

- ☐ Diabetes
- ☐ Heart Disease
- ☐ High Blood Pressure
- ☐ Acid Reflux
- ☐ Pulled/Torn Muscle
- ☐ IBS

Doctor

Receive symptoms from Nurse

Determine diagnosis

Check correct diagnosis box

Select medication from drop down menu

Submit form

Billing Interface

Patient First Name: _____

Patient Last Name: _____

Patient Social Security Number: _____

Submit

Results:

ra

PrescribeMedication

Doctor

Medication: String

Billing

Medication: string
price: integer

EditFile

Registrar

UpdatedInfo: String

Doctor

UpdatedInfo: String

Nurse

UpdatedInfo: String

RecordNotes

Doctor

Notes: string

Nurse

Notes: string

AdmitPatient

Nurse

Admit: Boolean

Billing

Admit: Boolean
price: integer