Team 4

CMSC 495

February 18 2017

Phase 1

Overview of the project

The overall goal of this project is to design a system that is able to take in data one time for patients that

can then be shared around for whatever doctor needs it securely. This enables the patient to have less

hassle throughout the process and allows doctors to have a clear picture on who they are treating.

Milestones

We have created a table that shows what goals we have step up and what goals we have accomplished.

Some of the goals timelines have been modified as our implementation strategies have changed.

	Projected Date of Accomplished Goal	**Name of the Goal**	**Was the Goal Accomplished**
Phase 1	Jan 22	Design what the system does and how the different pieces fit together.	Yes
	Jan 25	Create database tables and fields.	Yes
	Jan 25	Create user guide and test plan.	Yes
	Jan 25	Create the login/logout web page.	Yes
	Jan 26	Review login/logout web page.	Yes
Phase 2	Jan 28	Create the new patient registration page.	Yes
	Jan 30	Review new patient registration page.	Yes
	Feb 2	Create employee records page.	Yes

	Feb 5	Review employee records page.	Yes
	Feb 13	Create patient medical file page.	Yes
	Feb 17	Review patient medical file page.	Yes
Phase 3	Feb 23	Create hospital search page.	N/A
	Feb 25	Review hospital search page.	N/A
	Feb 27	Connect all pieces with backend database.	N/A
	Feb 28	Verify all data is transferred to database.	N/A
Phase 4	Mar 1	Test valid and invalid data inputs.	N/A
	Mar 3	Final polish.	N/A
	Mar 5	Turn in project.	N/A

Current Status on Phases

Phase 1:

We have currently completed phase 1 to include all of our design plan, database creation, and our login/logout web page. Our database tables are set up in a way where we have streamlined efficiency by optimizing our storage and searching algorithms as can be seen by figure 1.1. Additionally, our login/logout screen have been coded to only accept certain username and passwords, and it uses validation checks to ensure that no SQL injection attempts are made on the server. In figure 1.2 is a snapshot of what the login/logout screen looks like.
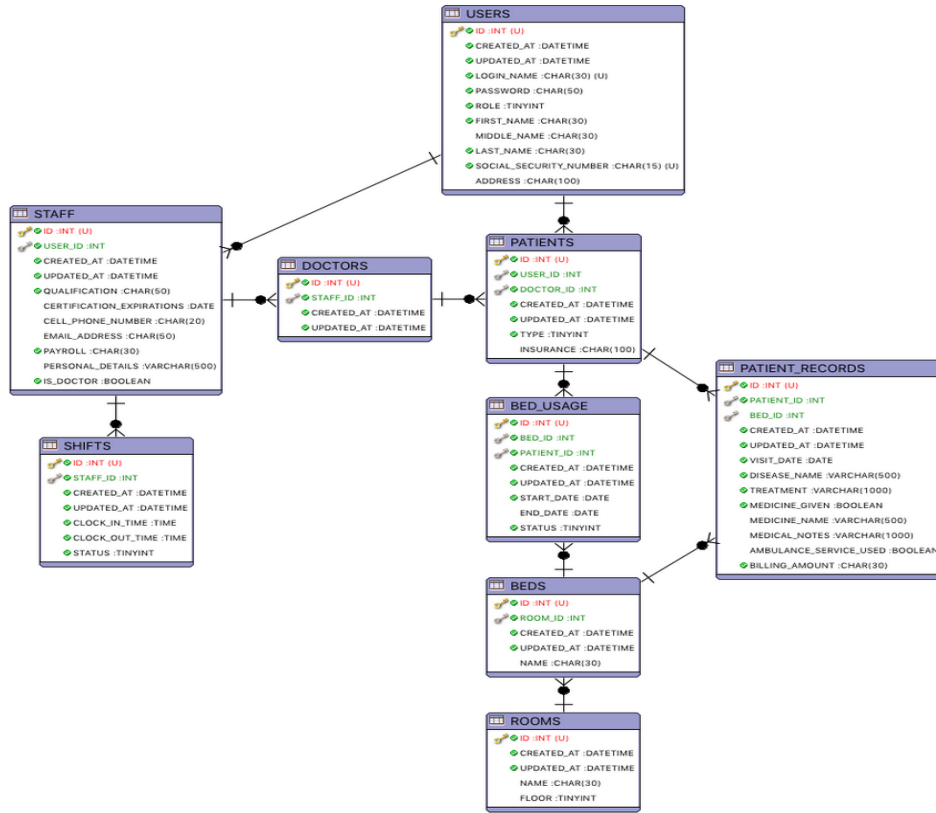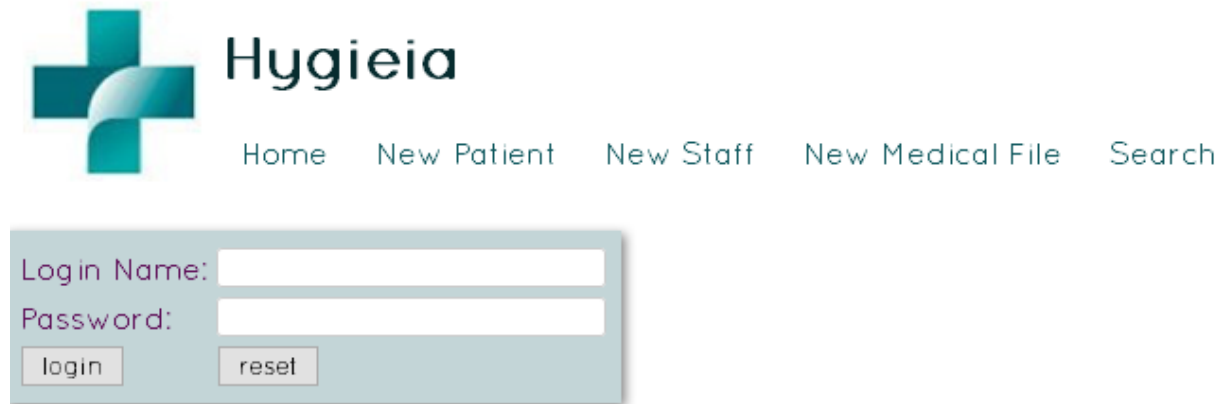
Figure 1.1

Figure 1.2

Phase 2:

Phase 2 is 100% complete with the *New Patient*, *New Staff* and *New Medical File* pages being completed. Each page has input validation associated with the appropriate fields to ensure that only proper data is inputted into each field. In addition all web pages check for SQL injection syntax and reject any field that has it. This allows our machine to add an additional layer of security. In the *New Patient,* and *New Staff* web page there is also a password field where employees and patients will be able to log into the system to see their medical records and other functions. In figure 1.3 the *New Patient* web page is shown, in figure 1.4 the *New Staff* web page is shown, and in figure 1.5 the *New Medical File* web page is show.

Hygieia

Home   New Patient   New Staff   New Medical File   Search

New Patient

First Name:

Middle Name:

Last Name:

**If we include this in an online form we MUST make sure the site is secure. Otherwise remove it DO NOT USE REAL SSN FOR TESTING!

SSN:

Admitted date:

Doctor First Name:

Doctor Last Name:

Patient Type: ⦿ Inpatient   ○ Outpatient

Address:

Insurance:

New Password:

Retype Password:

[Submit]   [Logout]

Figure 1.3

Hygieia

Home　　New Patient　　New Staff　　New Medical File　　Search

New Staff

First Name: [   ]

Middle Name: [   ]

Last Name: [   ]

**If we include this in an online form we MUST make sure the site is secure. Otherwise remove it*
DO NOT USE REAL SSN FOR TESTING!

SSN: [   ]

Staff Type: ⦿ Staff
　　　　　　　○ Doctor

Address: [   ]

Qualification: [   ]

Certification expiration: [   ]

Cell number: [   ]

Email address: [   ]

Payroll: [   ]

Personal details: [   ]

New Password: [   ]

Retype Password: [   ]

Clock in time: [   ]

Clock out time: [   ]

Status: ⦿ Normal
　　　　○ Emergency

[Submit]　[Logout]

Figure 1.4

Figure 1.5

Phase 3:

We have begun to develop our *Search* web page which will allow users to search through all their records and bring up the files they need to see. We currently have only the first and last name search option, but we are continuing to attack this web page development ahead of schedule. Below in figure 1.6 is an example of what the search page currently looks like.

Figure 1.6

Phase 4:

We currently have not begun these stages are we are not currently in those dates of development.

Special Problems:

We currently have into problems with connected our web pages to the backend database, and ensure

web page tabs redirect to the correct web pages. Additionally, we have had problems with input

validation showing up correctly and we are currently troubleshooting that issue.

Documentation:

The documentation has changed slightly with adding the password fields, and how the web pages

validate the inputs, but overall the documentation has stayed consistent.