Team 4 CMSC 495 February 10 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.	N/A
	Feb 17	Review patient medical file page.	N/A
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.

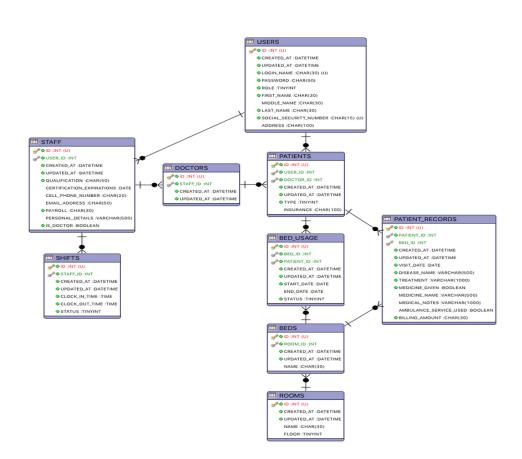


Figure 1.1

	Hygieia				
	Home	New Patient	New Staff	Search	
Login Name: Password: login	reset				

Figure 1.2

Phase 2:

Phase 2 is 66% complete with the *New Patient* and *New Staff* pages being completed. We are currently working on the *New Medical Files* page which should be completed by mid-next week. 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 each 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, and in figure 1.4 the *New Staff* web page is shown.

Hygieia Home New P	atient New Staff Search
	New Patient
First Name:	
Middle Name:	
Last Name:	
DONO	n we MUST make sure the site is secure. Otherwise remove it DT USE REAL SSN FOR TESTING!
SSN:	
Admitted date: Doctor First Name:	
Doctor Last Name:	
	 Inpatient Outpatient
Address:	
Insurance:	
New Password:	
Retype Password:	
Submit Logout	

Figure 1.3

Hygieia Home New Patier	nt New Staff Search
	New Staff
First Name:	
Middle Name:	
Last Name:	
	MUST make sure the site is secure. Otherwise remove it
SSN:	E REAL SSN FOR TESTING!
	O Staff
Staff Type:	• 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	



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 1.5 is an example of what the search page currently looks like.

	Hygieia			
	Home	New Patient	New Staff	Search
First Name: Last Name: search	reset			

Figure 1.5

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. That being said we have been able to solve these issues in a timely manner, and continue to push ahead.

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.