

Class Project Phase IV



Team: 3

Team Member Names: Ivy Wang, Myung Cho, Kiera Feng, Baixi Jiao, Rina Kawamura

- a) Link for the technical presentation (around 15 minutes). You can record this as a YouTube video or upload your video to the google drive of your team leader or one of your team members and provide a link to the google drive video

Google drive or YouTube link here:

https://drive.google.com/file/d/1jTAZJPJEGDEK6K-zem7lWaKOPKo23c7/view?usp=drive_link



- b) Final class diagram (copy and paste the Astah class diagram here).



- c) Testing report. Use the following format

Test case	Testing Scenario from Phase II	System Output	Test case passed (Yes/No)
1	<ul style="list-style-type: none"> - User logs into their account - Enter their username or Email and password (correct) and press login 	<ul style="list-style-type: none"> - Directs the user to their portal 	No: Explanation below
2	<p>Create new account</p> <ul style="list-style-type: none"> - Fill out full name, date of birth, phone number, email address, and create a password then press create - The user has a new account 	<ul style="list-style-type: none"> - A notification that a new account has been created will show up in a pop up window, the user will receive their generated 5 digit ID from the notification and email - Unique 5 digit ID and their set password will allow them to login from now on 	No: Explanation below
3	<p>Nurse registers patient info into the portal</p> <ul style="list-style-type: none"> - Press search patient Icon - Find the patient through their account name on the search bar - Select the right patient then press next - Select checkbox if patient is over 12 - Fill out patient info in the patient info page and any notes then enter - View patient medical history then press save 	<ul style="list-style-type: none"> - Directs nurse to search patient page - The patient will be found through their name and information on a dropdown window from the search bar - Will direct the user to the next page with a calendar and patient age agreement - If box is selected then patient blood pressure will be available for filling out in the data - The patient info will be temporarily saved and then move to the next page - Medical history will allow users to scroll through the patient's health issues, prescribed medication, and immunization history. Saving will register the info filled out by the nurse into the system 	No: Explanation below
4	<p>Doctor records results to patient visit and prescriptions</p> <ul style="list-style-type: none"> - Press search patient icon 	<ul style="list-style-type: none"> - Direct doctor to search patient page 	No: Explanation below

	<ul style="list-style-type: none"> - Search for patient in the search bar through their name - Doctor records test result and notes in the next page's text area - Doctor prescribes medicines in the prescription medicines page and press next - View patient medical history then press save 	<ul style="list-style-type: none"> - Dropdown window shows patients with the given name and their information - Results and findings will be temporarily recorded in the system - A pop up window asks if the doctor would like to send prescription to pharmacy and they can select no or yes - All the filled out information will be saved into the system and patient visit summary 	
5	User accesses the message portal	<ul style="list-style-type: none"> - The user can search for recipient through the search bar and press new message to write a message to that person 	Yes
6	Patient view their medical summary <ul style="list-style-type: none"> - Select view previous record on first page - User selects session in calendar 	<ul style="list-style-type: none"> - Directs patient to their record summary with a calendar for selecting which session summary to view - Text area underneath displays the visit summary of that given date and time 	No: Explanation below

Test case 1 failure reason:

We did not end up allowing users to sign in using their email but only their full name. In the future we will try to allow users to sign in with more than one way so it is more memorable and convenient.

Test case 2 failure reason:

We only allowed users to sign in with their full name not unique ID. In the future we will try to implement the sign in page to have multiple sign in methods for user convenience.

Test case 3 failure reason:

We did not end up using a dropdown menu to display patients. Next time we will start earlier so we can implement all the functions planned out in the previous phases.

Test case 4 failure reason:

When we entered the patient's name, it did not direct us to the other page. This is due to the fact that we only implemented the patient search by their 5 digit ID instead of their name. What our team will do about this problem is to allow the patient to allow searching for patients by both their name and ID.

Test case 6 failure reason:

We did not implement the patient to view their record summary with a calendar in the end and decided to display the date of the recorded information instead. In the future we will consider how it is harder to pull up records by date and plan things out to be more readable like our implementation in the end.

d) Conclusions (No more than ½ page, single space 12 font size)

Conclusion:

Over the course of the semester, our team worked diligently on the CSE360 project, gaining valuable experience and insight into software development, teamwork, and problem solving. In this document, we will reflect on our project, discuss what went well and what didn't, and provide recommendations for future CSE360 teams to ensure the success of the project.

What Worked Well:

Communication: Our team established open and effective communication channels early in the project, which helped us understand each other's strengths, weaknesses, and expectations. We utilized tools like Discord, Asu email, and weekly meetings to keep everyone updated on the project's progress and address any issues.

Division of labor: We carefully assessed the project requirements and divided tasks among team members based on their expertise and interests. This approach not only ensured that everyone was engaged in the project but also promoted efficiency and prevented bottlenecks.

Version control: We used Google Drive and GitHub for version control, which allowed us to maintain a clean, organized codebase and collaborate effectively. This practice also enabled us to minimize the impact of errors or bugs.

What Didn't Work So Well:

Estimation: Initially, our team underestimated the complexity of certain tasks, leading to scheduling difficulties and some last-minute scrambling. In the future, we will allocate more time for task estimation and account for potential roadblocks.

Testing: While we did conduct testing throughout the project, we discovered that some critical issues were not detected until the later stages. We will need to improve our testing strategy and incorporate more rigorous testing methods, such as part code tests.

Recommendations for Future CSE360 Groups:

Plan ahead: Start by thoroughly understanding the project requirements, scope, and constraints. Create a detailed project plan with milestones, deadlines, and contingency plans for potential issues.

Communication: Establish clear communication channels and expectations within the team. Hold regular meetings to discuss progress, challenges, and next steps.

Co-work control: Use version control tools like Git and GitHub to maintain a clean, organized codebase and collaborate more effectively.

Testing: Implement a comprehensive testing strategy that includes various testing methods to ensure high-quality software.

Project Statistics:

Number of defects found during each phase of the project:

Requirements: 0

Design: 1

Implementation: 20

Testing: 5

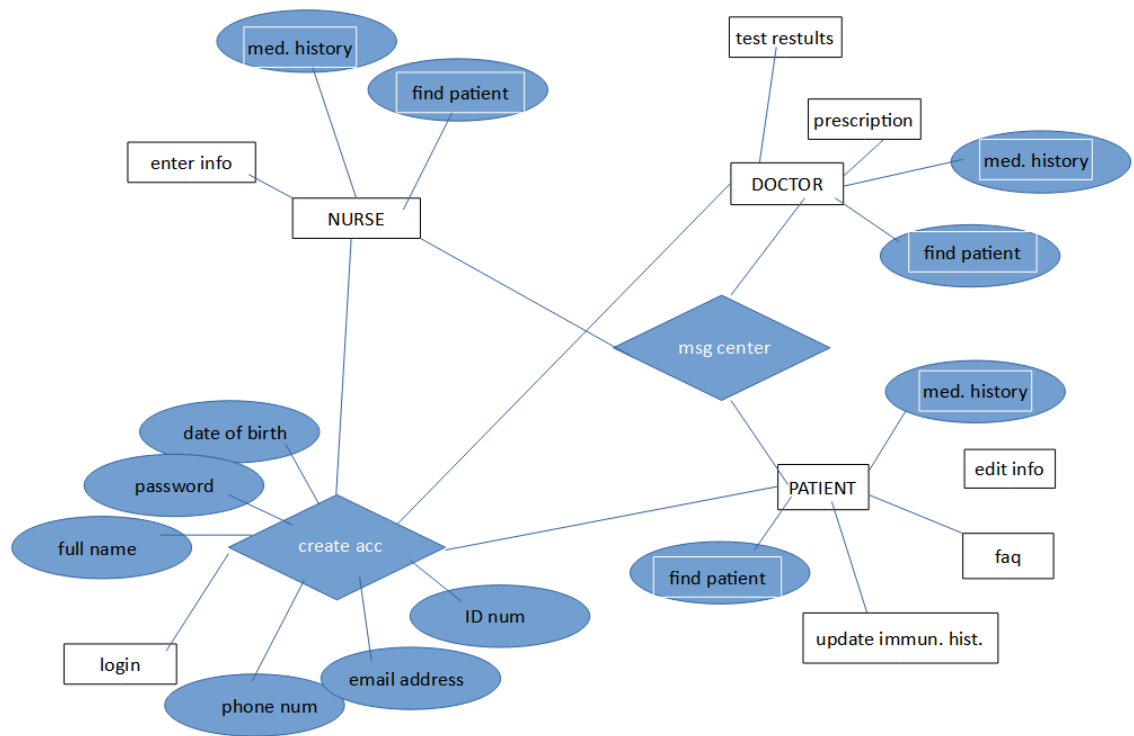
Deployment: 3

Average number of lines of code produced per hour of time spent on the project: 20 lines/hour

e) Data Design (Extra Credit)

Identified data entities: patient, doctor, nurse, login, create account, find patient, enter patient info, medical history, message center, test results, prescription, frequently asked questions, edit information, update immunization history

E-R diagram (you can use word or any software to draw the E-R diagram)



Credit Sheet

Team Member Name	Contributions
Baixi Jiao	20%
Ivy Wang	20%

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Baixi Jiao	20%
Kiera Feng	20%
Myung Cho	20%
Rina Kawamura	20%