Class Project Phase IV

CSE 360

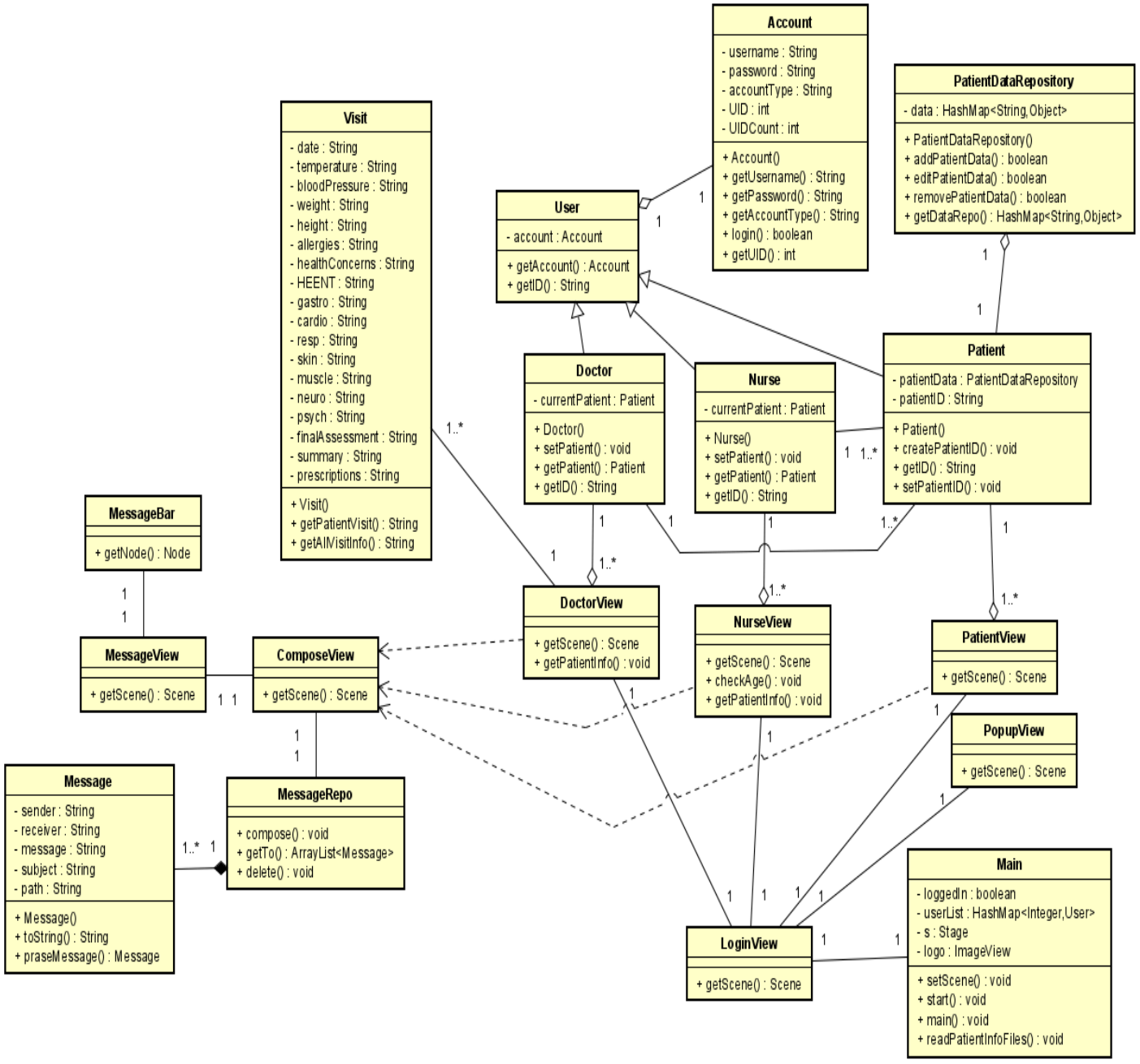
Team Number: 22

Team Members: Mathm Alkaabi, Christopher Chou, Karisma Liddell, Jesse Sims, Leo Wilson

a) Link for the technical presentation:

Google drive or YouTube link here:
https://drive.google.com/file/d/1RzodwjJxCaBfg2_st78SnQYZkoIUfsMm/view?usp=sharing

b) Final Class Diagram



c) Testing Report

Testing code is on the testing *branch on GitHub.*

Test case	Testing Scenario from Phase II	System Output	Test case passed (Yes/No)
0	Users are set up correctly	Accounts are created as expected	Yes
1	User attempts to log in with correct credentials	User logs in successfully	Yes
2	User attempts to log in with incorrect credentials	User cannot log in	Yes
3	User attempts to create account	User creates account	Yes
4	User attempts to create an account and log in	User creates an account and logs in	Yes
5	User creates a duplicate account	User cannot create an account	Yes
6	User attempts to send a message	The message is received	Yes
7	User attempts to delete a message	The message is deleted	Yes
8	User attempts to send multiple messages to the same user	The messages are all received	Yes
9	Multiple users attempt to send a message to the same user	The messages are all received	Yes
10	User attempts to edit patient info	The info is updated	Yes

d) Conclusions

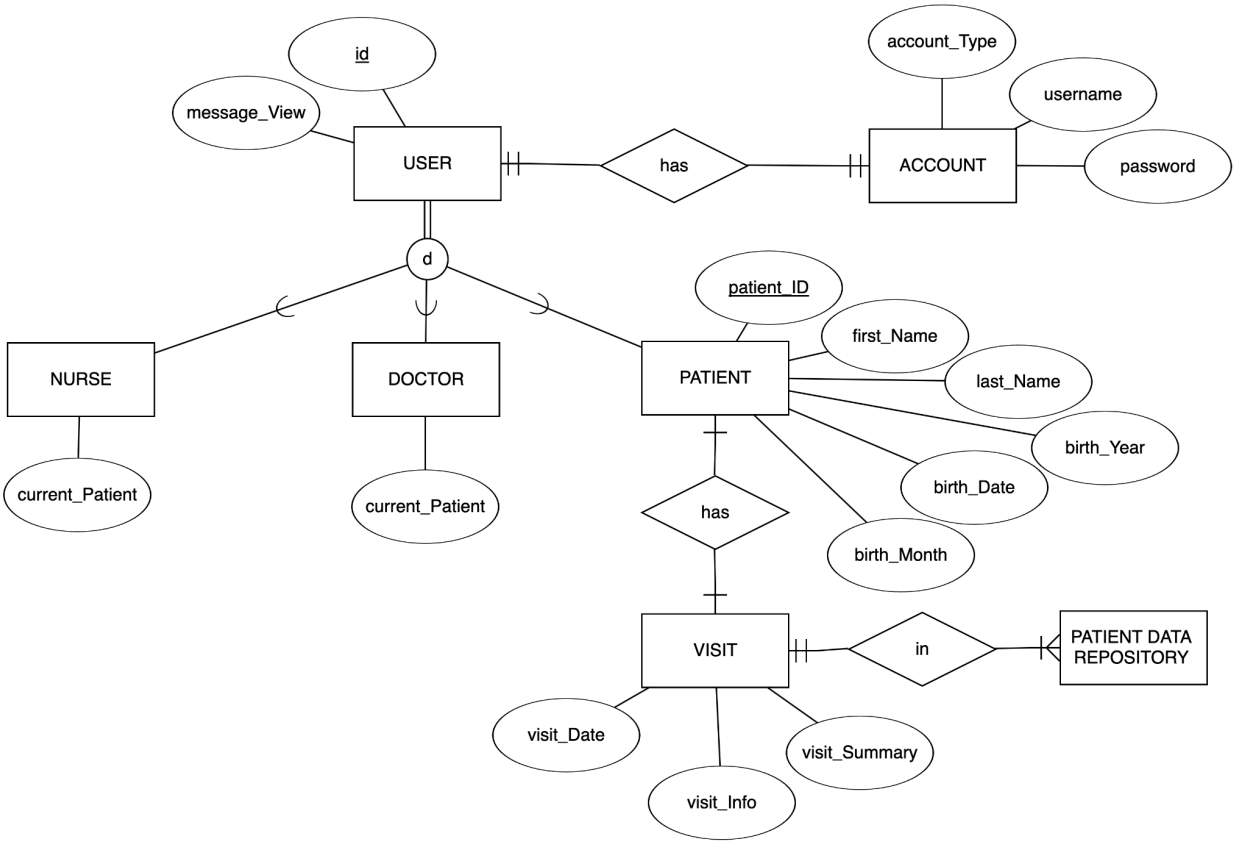
Overall, our project went quite well. By the end, we had a working product implementing all the desired functionality. Our team worked cohesively, with each member working effectively on their respective parts. For the most part, we were able to divide work neatly; everyone chose a section to work on according to their strengths, and we combined all these as needed. The Jira board was vital to organizing work in this regard. We could easily see what others were working on and find tasks that hadn't yet been claimed. Git was also quite helpful for our collaborative efforts. As annoying as merge conflicts might be, it would have been far more difficult to combine our code without a tool like Git.

Some members did have issues with Git throughout the project, and for that matter with running the project. If we were to work on a similar project in the future, we would put more time upfront into making sure that everyone has the tooling set up before starting on code. This

ultimately had very little impact on the final product, but likely reduced our efficiency. We also ended up with some interesting conflicts between Git and Eclipse. For instance, we initially committed *.classpath*, so when we switched to others' branches, we would have to reconfigure the build path. These issues were minor, and we learned as we went along to deal with them (in this case, adding the file to *.gitignore*). In the future, we would also spend more time working on the architectural design before starting on the implementation. Within a group, it becomes difficult to maintain a coherent architecture when each developer has a slightly different conceptualization of how the program should function. This never created show-stopping conflicts, but it certainly slowed us down at times.

While productivity varied throughout the project, at our most prolific, we produced around ten lines per minute, albeit much of this being JavaFX boilerplate. It is difficult to retrospectively quantify the number of bugs we encountered, since bugfixing was always treated as an integral part of the coding process. Suffice it to say that no noticeable bugs made it to the final product.

e) Data Design



Credit Sheet

Team Member Name	Contributions
Leo Wilson	Testing Report, Conclusions
Jesse Sims	Phase II Summary
Mathm Alkaabi	Class Diagram, Phase III Summary
Christopher Chou	Phase I Summary
Karisma Liddell	ER Diagram, Project Overview