Class Project Phase IV CSE 360 - Fall 2021

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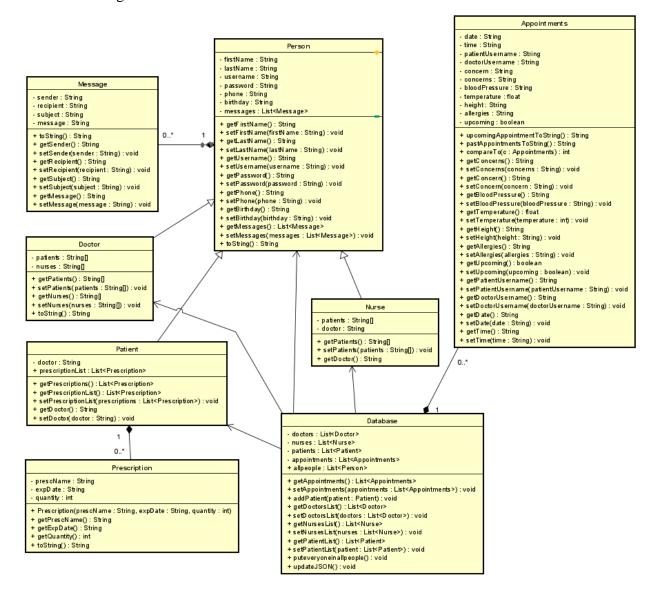
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Technical Presentation Video:

https://drive.google.com/drive/folders/1adlJY69WrIN98Fo3tvaKvjPpVcrVtt16

Final Class Diagram



c)

Testing report:

Note: Some tests were removed due to a change in functionality of the program from phase II

Parent/Guardian Use Cases

Use Case: Patient/Guardian Creates Account

Test Case #	Scenario	Expected Output	Passed?
#1	Patient/Guardian enters invalid first name (Includes numerical values, symbols)	Software prompts user to enter correct first name.	No, checks for the input need to be introduced into the program
#2	Patient/Guardian enters Invalid last name (Includes numerical values, symbols)	Software Prompts user to enter correct last name.	No, checks for the input need to be introduced into the program
#3	Patient/Guardian enters invalid password (Includes invalid characters).	Software Prompts user to enter a valid password and displays valid characters.	No, checks for the input need to be introduced into the program
#4	Patient/Guardian Enters Invalid Birthday (Future date, too far in the past, incorrect formatting)	Software prompts user that birthday is invalid with explanation.	No, checks for the input need to be introduced into the program
#5	Patient/Guardian enter some but not all information fields.	Reject attempt to create account and display prompts on missing information fields to fill in the specific field.	Yes
#6	Patient/Guardian enter all information fields with correctly formatted information.	Create user account, autogenerate a username for the user, and display the username to the user.	Yes

Use Case: Patient/Guardian Log In to Portal

Test	Scenario	Expected Output	Passed?
Case			
#			
#1	Patient/Guardian enters incorrect	Inform user that one of the	Yes
	username OR password.	fields is incorrect, do not	
		specify for security.	
#2	Patient/Guardian enters a	Inform user that e-mails are	Yes
	username in e-mail format	not usernames and request	
	(contains @ symbol).	given username.	
#3	Patient/Guardian enters	Clear text fields and send	Yes
	information and then selects create	user to Create Account	
	account information	page.	
#4	Patient/Guardian enters correct log	Log into user's account and	Yes
	in information and then presses Log	take them to the home	
	In button.	page.	

Use Case: Patient/Guardian Home Page Navigation

Test	Scenario	Expected Output	Passed?
Case			
#			
#1	Patient/Guardian presses Log Out	Return user to Login Select	Yes
	button.	page.	
#2	Patient/Guardian presses Messages	Send user to their Messages	Yes
	button.	inbox.	
#3	Patient/Guardian presses Your	Send user to Doctor	Yes
	Doctor button.	information page.	
#4	Patient/Guardian View Profile	Send user to their respective	Yes
	button.	profile page.	
#5	Patient/Guardian press View Visit	Send user to the specific	Yes
	on a specific past visit	past visits summary page.	
#6	Patient/Guardian view a specific	Send user to prescription	Yes
	medication	summary.	

Use Case: Patient/Guardian Your Doctor & Change Doctor page

Test	Scenario	Expected Output	Passed?
Case			
#			
#1	User presses Change Doctor	Changes a user's doctor	Yes
	Button		
#2	User does not select a doctor and	Keeps doctor field the same	Yes
	presses "Change Doctor"	for the user	

Use Case: Patient/Guardian View Profile & Edit Profile

Test Case #	Scenario	Expected Output	Passed?
#1	User presses edit profile button	Take user to edit profile page	Yes
#2	User enters invalid information when editing information.	Do not allow user to save incorrect information and prompt them to input correct information.	No, user input check needs to be introduced

Use Case: Patient/Guardian Message Page

Test Case #	Scenario	Expected Output	Passed
#1	User presses New Message button	Send user New Message page	Yes, but bug where database only updates after the application has been closed and reopened. Need a refresh functionality
#2	User enters invalid characters for message recipient or message topic.	Inform user of invalid entry.	No, invalid character entry check needs to be introduced to the program
#3	User attempts to send message to recipient who does not exist.	Display on screen that recipient does not exist.	Yes
#4	User presses View Message button	Open the message for the user.	Yes
#5	User presses Delete on inbox screen	Delete the specific message.	Yes
#6	User presses Respond on a message's page.	Send user to new message page with recipient and topic pre-filled.	No, need to add prefill functionality

#7	User presses Delete on a	Delete message and send	Yes
	message's page.	user to the inbox page.	

Nurse Use Cases

Use Case: Nurse Log In to Portal

Test Case #	Scenario	Expected Output	Passed?
#1	Nurse enters incorrect username OR password.	Inform user that one of the fields is incorrect, do not specify for security.	Yes
#2	Nurse enters a username in e-mail format (contains @ symbol).	Inform user that e-mails are not usernames and request given username.	No, invalid character entry check needs to be introduced to the program
#3	Nurse enters correct log in information and then presses Log In button.	Log into user's account and take them to the home page.	Yes

Use Case: Nurse Home Page Navigation

Test Case	Scenario	Expected Output	Passed?
#			
#1	Nurse presses Log Out button.	Return user to Login Select	Yes
		page.	
#2	Nurse presses Messages button.	Send user to their Messages	Yes
		inbox.	
#3	Nurse presses Your Doctor	Send user to the doctor they	Yes
	button.	work under information	
		page.	
#4	Nurse press View Profile button.	Send user to their respective	Yes
		nurse profile page.	
#5	Nurse presses New Patient	Send user to Create Patient	Yes
	button	Account page.	
#6	Nurse presses view Patient List	Send user to their respective	Yes
	button	patient list.	

Use Case: Nurse Searches/Views Patient Database

Test Case	Scenario	Expected Output	Passed?
#			
#1	Nurse enters invalid characters for patient's first name, last name, and birthday.	Do not search for patient and prompt user of invalid entry.	No, invalid character entry check needs to be introduced to the program
#2	Nurse enters information for a patient that does not exist or is not on the nurse's list	Display on screen that patient is not on list.	Yes
#3	Nurse presses Log Vitals button	Log new appointment for the patient and take nurse to Log Vitals page.	Yes
#4	Nurse presses Remove Patient button	Remove patient from the nurse's list.	No, functionality not implemented yet, need to add delete button to the Nurse's patient table
#5	Nurse presses View Information page	Send Nurse to Patient Information page.	Yes

Use Case: Nurse Navigating Patient Information Page

Test Case #	Scenario	Expected Output	Passed?
#1	Nurse Presses New Appointment	Send Nurse to New Appointment page.	Yes
#2	Nurse presses View Information on a previous patient visit.	Send Nurse to patient visit summary page.	Yes
#3	Nurse presses View Profile button.	Send Nurse to specific patient's profile page (noneditable).	Yes

Use Case: Nurse Logs Patient Vitals

Test	Scenario	Expected Output	Passed
Case			
#			
#1	Nurse inputs invalid characters into input fields (Text in numerical fields, vice-versa)	Do not allow nurse to save new visit and specify which input was incorrect.	No, need to implement user input checks
#2	Nurse does not fill in all required fields.	Do not allow nurse to save new visit and specify which fields need to be filled in.	Yes
#3	Nurse fills in all required fields and presses Save New Visit	Save vitals as a new appointment and return nurse to Patient Information page.	yes

Use Case: Nurse Presses New Patient Button (Create New Patient Account)

Test	Scenario	Expected Output	Passed?
Case			
#			
#1	Nurse enters invalid first name	Software prompts user to	No, need to implement
	(Includes numerical values, symbols)	enter correct first name.	user input checks
#2	Nurse enters Invalid last name	Software prompts user to	No, need to implement
	(Includes numerical values, symbols)	enter correct last name.	user input checks
#3	Nurse enters invalid password	Software prompts user to	No, need to implement
	(Includes invalid characters).	enter a valid password and	user input checks
		displays valid characters.	
#4	Nurse Enters Invalid Birthday	Software prompts user that	No, need to implement
	(Future date, too far in the past,	birthday is invalid with	user input checks
	incorrect formatting)	explanation.	
#5	Nurse enters some but not all	Reject attempt to create	Yes
	information fields.	account and display prompts	
		on missing information fields	
		to fill in the specific field.	
#6	Nurse enters all information fields	Create patient account, auto-	Yes
	with correctly formatted	generate a username for the	
	information.	user, and display the	
		username to the user.	

Use Case: Nurse Message Page

Test	Scenario	Expected Output	Passed?
Case			
#			
#1	Nurse presses New Message	Send Nurse New Message	Yes
	button	page	
#2	Nurse enters invalid characters	Inform Nurse of invalid	No, need to implement
	for message recipient or message	entry.	user input checks
	topic.		
#3	Nurse attempts to send message	Display on screen that	Yes
	to recipient who does not exist.	recipient does not exist.	
#4	Nurse presses View Message	Open the message for the	Yes
	button	Nurse.	
#5	Nurse presses Delete on inbox	Delete the specific message.	Yes
	screen		
#6	Nurse presses Respond on a	Send Nurse to new message	No need to add prefill
	message's page.	page with recipient and	functionality for a reply
		topic pre-filled.	
#7	Nurse presses Delete on a	Delete message and send	Yes
	message's page.	Nurse to the inbox page.	

Use Case: Nurse View Profile & Edit Profile

Test	Scenario	Expected Output	Passed?
Case			
#			
#1	Nurse presses edit profile button	Take Nurse to edit profile	Yes
		page	
#2	Nurse enters invalid information when editing information.	Do not allow Nurse to save incorrect information and prompt them to input correct information.	No, need to implement user input checks

Doctor Use Cases:

Use Case: Doctor Log In to Portal

Test Case #	Scenario	Expected Output	Passed?
#1	Doctor enters incorrect username OR password.	Inform user that one of the fields is incorrect, do not specify for security.	Yes
#2	Doctor enters a username in e-mail format (contains @ symbol).	Inform user that e-mails are not usernames and request given username.	No, need to implement user input checks
#3	Doctor enters correct log in information and then presses Log In button.	Log into user's account and take them to the home page.	Yes

Use Case: Doctor Home Page Navigation

Test	Scenario	Expected Output	Passed?
Case			
#			
#1	Doctor presses Back button.	Do nothing. No page to go back to.	Yes
#2	Doctor presses Log Out button.	Return user to Login Select page.	Yes
#3	Doctor presses Messages button.	Send user to their Messages inbox.	Yes
#4	Doctor presses Your Doctor button.	Send user to the doctor they work under information page.	Yes
#5	Doctor press View Profile button.	Send user to their respective Doctor profile page.	Yes
#6	Doctor presses New Patient button	Send user to Create Patient Account page.	Yes
#7	Doctor presses view Patient List button	Send user to their respective patient list.	Yes

Use Case: Doctor Searches/Views Patient Database

Test	Scenario	Expected Output	Passed?
Case			
#			
#1	Doctor enters invalid characters	Do not search for patient and	No, need to implement
	for patient's first name, last	prompt user of invalid entry.	user input checks
	name, and birthday.		
#2	Doctor enters information for a	Display on screen that	Yes
	patient that does not exist or is	patient is not on list.	
	not on the Doctor's list		
#3	Doctor presses Log Vitals button	Log new appointment for the	Yes
		patient and take Doctor to	
		Log Vitals page.	
#4	Doctor presses Remove Patient	Remove patient from the	Yes
	button	Doctor's list.	
#5	Doctor presses View Information	Send Doctor to Patient	Yes
	page	Information page.	

Use Case: Doctor Navigating Patient Information Page

Test Case #	Scenario	Expected Output	Passed?
#1	Doctor Presses New Appointment	Send Doctor to New Appointment page.	Yes
#2	Doctor presses View Information on a previous patient visit.	Send Doctor to patient visit summary page.	Yes
#3	Doctor presses View Profile button.	Send Doctor to specific patient's profile page (noneditable).	Yes

Use Case: Doctor Logs Patient Vitals

Test	Scenario	Expected Output	Passed?
Case			
#			
#1	Doctor inputs invalid characters	Do not allow Doctor to save	No, need to implement
	into input fields (Text in	new visit and specify which	user input checks
	numerical fields, vice-versa)	input was incorrect.	
#2	Doctor does not fill in all required	Do not allow Doctor to save	Yes
	fields.	new visit and specify which	
		fields need to be filled in.	
#3	Doctor fills in all required fields	Save vitals as a new	Yes
	and presses Save New Visit	appointment and return	
		Doctor to Patient Information	
		page.	

Use Case: Doctor Presses New Patient (Create New Patient Account)

Test	Scenario	Expected Output	Passed?
Case			
#			
#1	Doctor enters invalid first name (Includes numerical values, symbols)	Software prompts user to enter correct first name.	No, need to implement user input checks
#2	Doctor enters Invalid last name (Includes numerical values, symbols)	Software prompts user to enter correct last name.	No, need to implement user input checks
#3	Doctor enters invalid password (Includes invalid characters).	Software prompts user to enter a valid password and displays valid characters.	No, need to implement user input checks

#4	Doctor Enters Invalid Birthday	Software prompts user that	No, need to implement
	(Future date, too far in the past,	birthday is invalid with	user input checks
	incorrect formatting)	explanation.	
#5	Doctor enters some but not all	Reject attempt to create	Yes
	information fields.	account and display prompts	
		on missing information fields	
		to fill in the specific field.	
#6	Doctor enters all information	Create patient account, auto-	Yes
	fields with correctly formatted	generate a username for the	
	information.	user, and display the	
		username to the user.	

Use Case: Doctor Message Page

Test	Scenario	Expected Output	Passed?
Case			
#			
#1	Doctor presses New Message	Send Doctor New Message	Yes
	button	page	
#2	Doctor enters invalid characters	Inform Doctor of invalid	No, need to introduce
	for message recipient or message	entry.	user input verification
	topic.		
#3	Doctor attempts to send message	Display on screen that	Invalid, table view now
	to recipient who does not exist.	recipient does not exist.	implemented, not search
#4	Doctor presses View Message	Open the message for the	Yes
	button	Doctor.	
#5	Doctor presses Delete on inbox	Delete the specific message.	Yes
	screen		
#6	Doctor presses Respond on a	Send Doctor to new	No, recipient pre fill
	message's page.	message page with recipient	functionality need to be
		and topic pre-filled.	implemented
#7	Doctor presses Delete on a	Delete message and send	Yes
	message's page.	Doctor to the inbox page.	

Use Case: Doctor View Profile & Edit Profile

Test	Scenario	Expected Output	Passed?
Case			
#			
#1	Doctor presses edit profile button	Take Doctor to edit profile	Yes
		page	
#2	Doctor enters invalid information when editing information.	Do not allow Doctor to save incorrect information and prompt them to input correct information.	No, need to introduce user input verification

Use Case: Doctor Searches/Views Nurse List

Test Case #	Scenario	Expected Output	Passed?
#1	Doctor enters invalid characters for Nurse's first name, last name, and birthday.	Do not search for nurse and prompt user of invalid entry.	No, need to introduce user input verification
#2	Doctor enters information for a patient that does not exist or is not on the Doctor's list	Display on screen that nurse is not on list.	Invalid, patients are now listed in a table
#3	Doctor presses View Information page	Send Doctor to Patient Information page for that specific Nurse.	Yes

Conclusion

This semester long project was a few our team members first time being involved in a project this long and revolving around teamwork in the software engineering scope of things. At first everyone was eager to work on the project, and the first issue we encountered was our group having too many people. The person who organized our group decided it was best for him to step away as he was the one who put us together. I think this was a stem to our communication issues.

None of us were heavily familiar with each other, and the one who put us together had been moved to another project. Coming into this project, our biggest strength was our willingness to wanting to work on the project. We all wanted to help one way or the other. I think another strength we carried into and reflected in our project was being able to put as much work as needed to get to a satisfiable reflection of the project.

Although we showed these strengths in this project, there was a very big downfall to the succession of this project. I think a big part of our downfall was our communication toward each other. For example, some people were more familiar with speaking to people in private and that kept a lot of us out of the loop. Another issue that we encountered was when having the majority of the work fall into one person's hands. Although we delegated work, some people were given smaller tasks, whether they be meaningful or meaningless toward the project.

I think the most important thing for the succession of this project is having people communicating well and being delegated work evenly and fairly within each other. Communication needs to happen between all the team members and not part of the team members. I also think it's important to keep everyone in the project in the loop.

Statistics:



Identified data entities

Patient

Nurse

Doctor

E-R diagram

