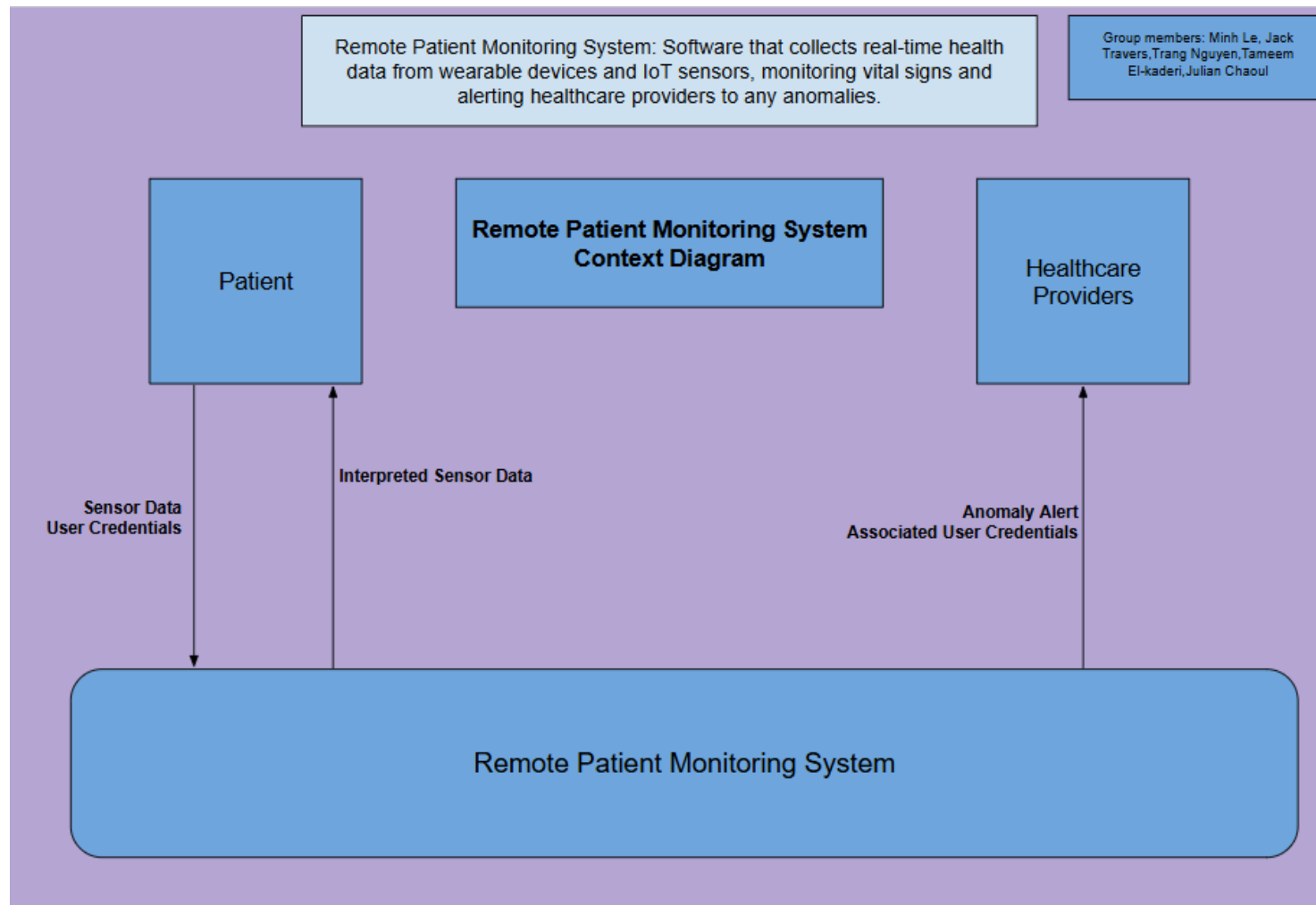


Group Members: Julian Chaoul, Tameem El-kaderi, Minh Le, Jack Travers, Trang Nguyen

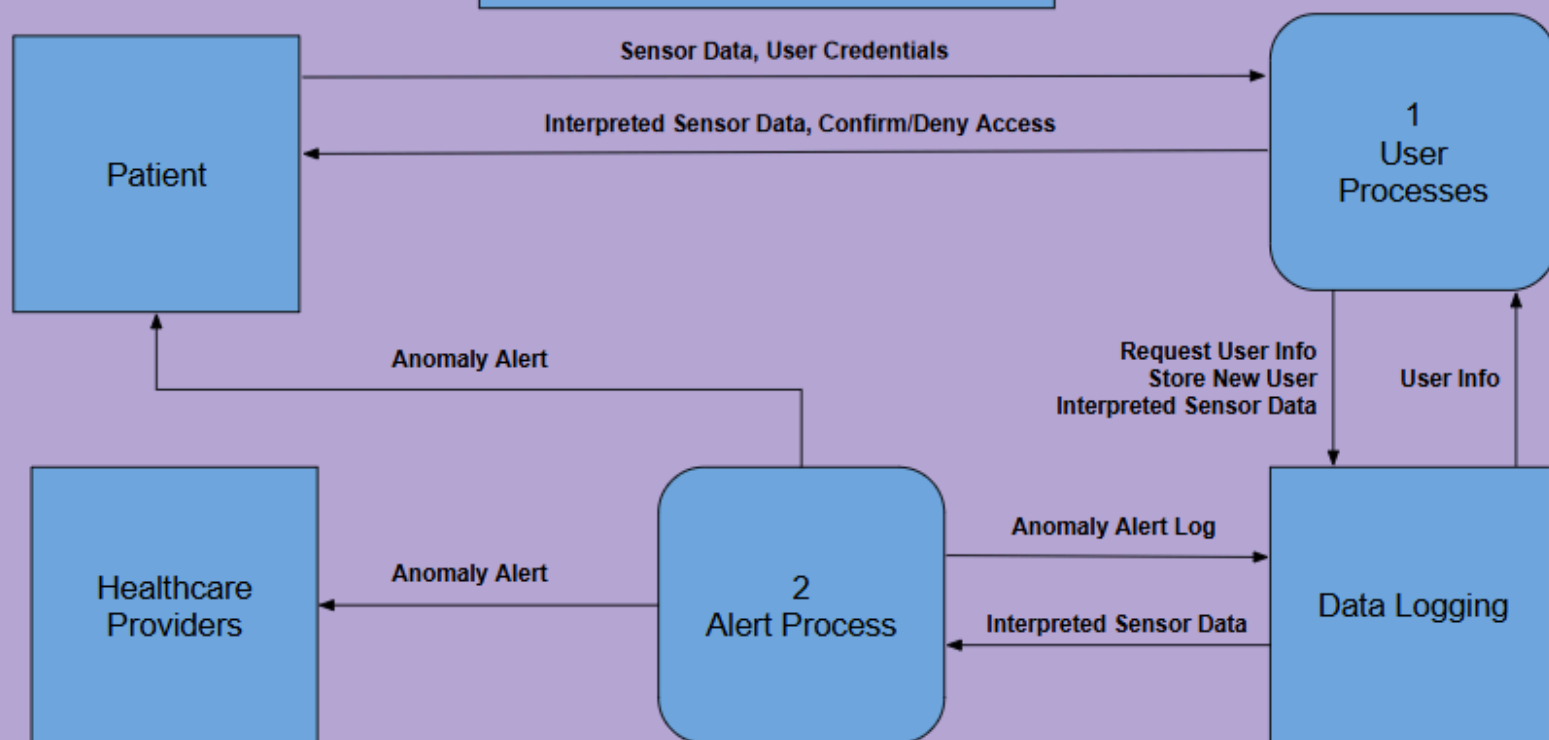
DEV 1 - DFDs



Remote Patient Monitoring System: Software that collects real-time health data from wearable devices and IoT sensors, monitoring vital signs and alerting healthcare providers to any anomalies.

Group members: Minh Le, Jack Travers, Trang Nguyen, Tameem El-kaderi, Julian Chaoul

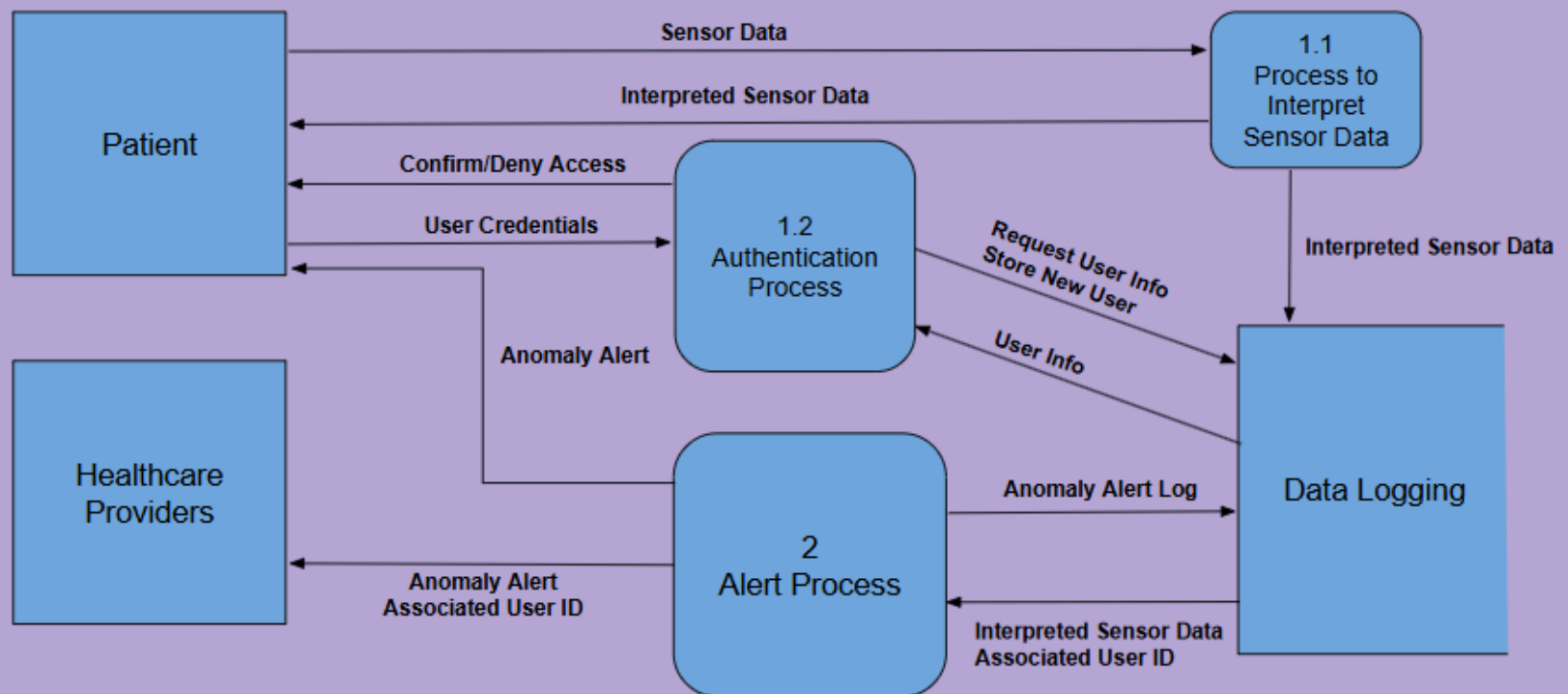
Remote Patient Monitoring System Level 0 DFD



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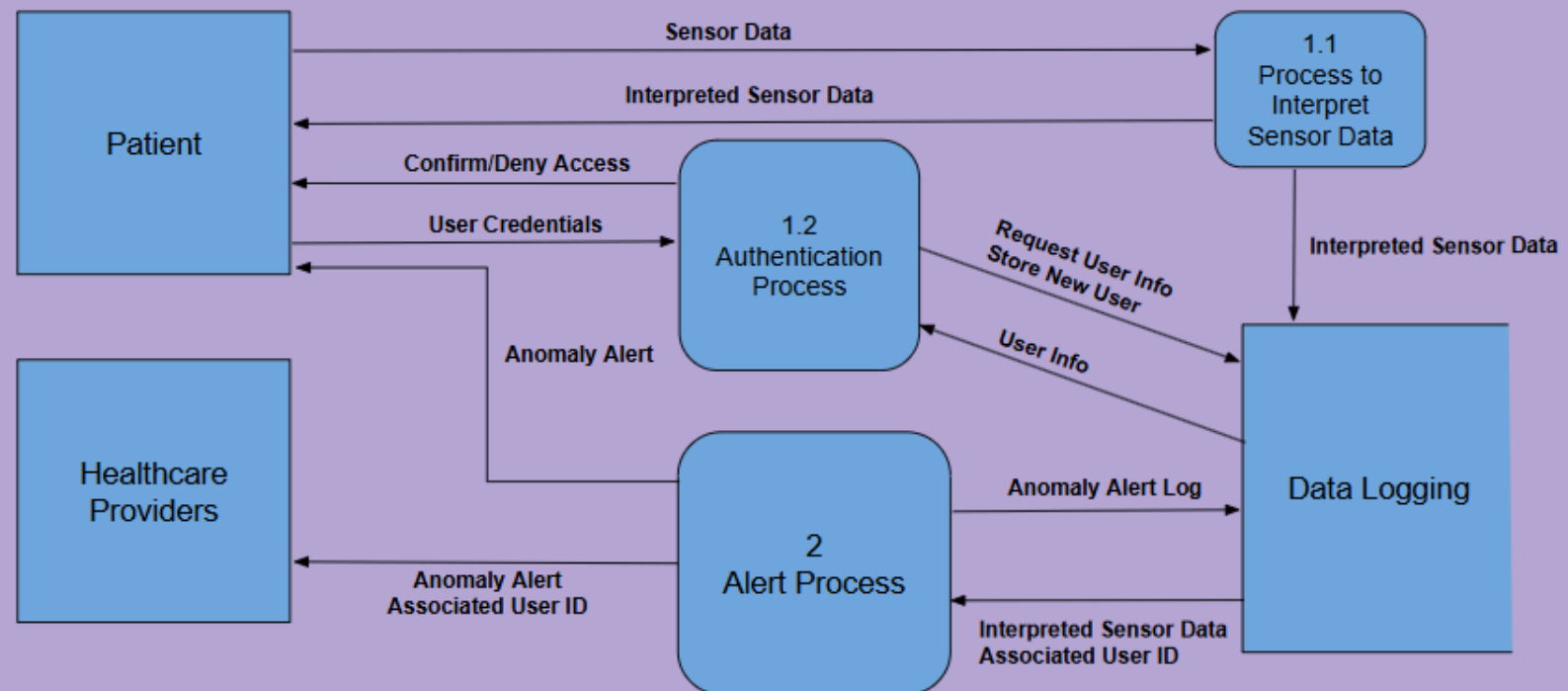
Remote Patient Monitoring System Level 1 DFD 1: User Processes



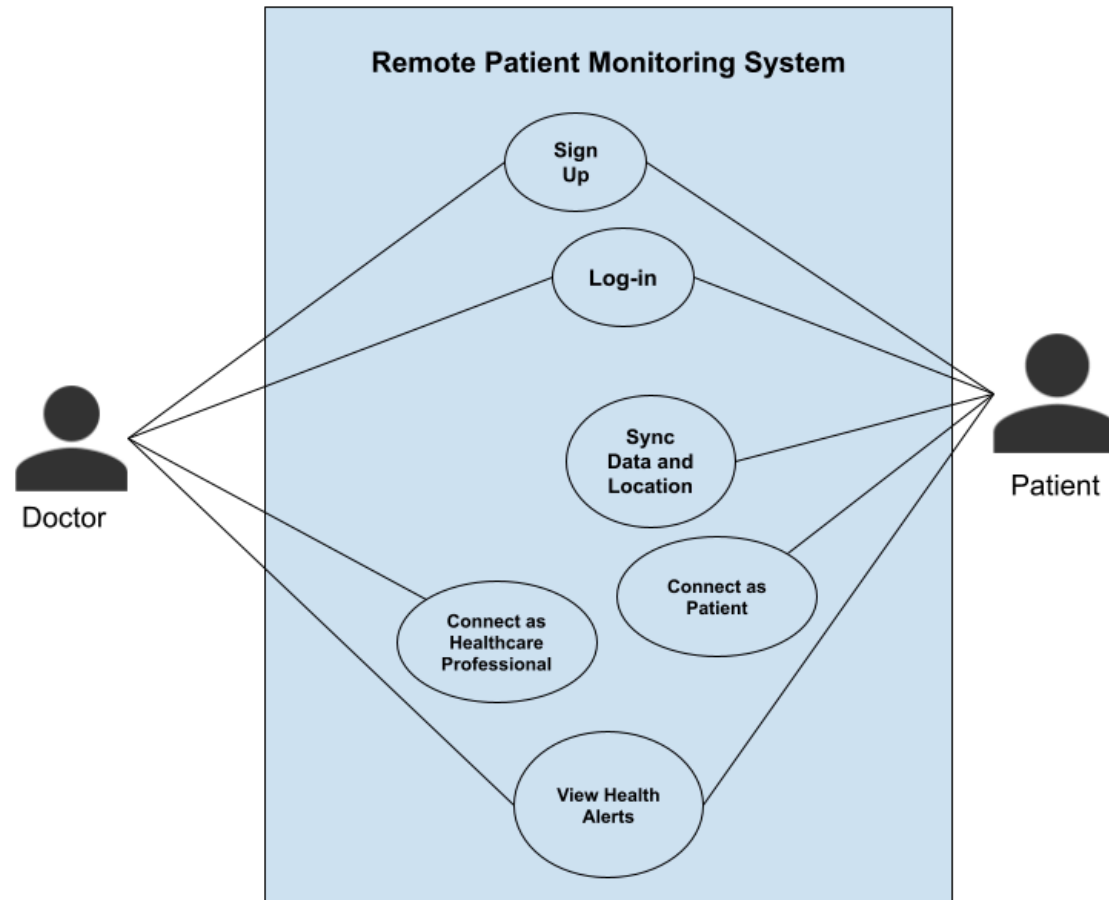
Remote Patient Monitoring System: Software that collects real-time health data from wearable devices and IoT sensors, monitoring vital signs and alerting healthcare providers to any anomalies.

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Remote Patient Monitoring System Level 1 DFD 1: User Processes



DEV 2 - Use Cases



Name:	Remote Patient Monitoring System
Description:	Software that collects real-time health data from wearable devices and IoT sensors, monitoring vital signs and alerting healthcare providers to any anomalies.
Actors:	Patients, Healthcare Providers
Entry Condition:	The actor selects login/register option
Basic Path:	<ol style="list-style-type: none"> 1. The system presents the login/sign up screen with the following options: <ol style="list-style-type: none"> a. Log-in Prompts: [AP1] <ol style="list-style-type: none"> i. Input Name ii. Input Username iii. Input Password iv. Log-in Account b. Sign Up Account 1. The actor selects the "Sign Up" option 2. The system presents a screen prompting for the following input: <ul style="list-style-type: none"> Name Address Date of Birth Email Username Password Confirm Password Options within this screen <ol style="list-style-type: none"> i. Confirm registration ii. Go back 3. Actor selects confirm registration [AP2] 4. The system displays the following requests: [BR2] <ul style="list-style-type: none"> Permission to sync to health devices (fitbit, apple watch, etc.) <ol style="list-style-type: none"> i. Allow ii. Deny Permission to make use of live location <ol style="list-style-type: none"> iii. Allow iv. Deny 5. The actor selects Allow [AP3] 6. System validates information [EP1] [BR1] 7. The system pushes the new user info to the user database 8. The system prompts the actor with screen displaying the following options:[AP4] <ul style="list-style-type: none"> Connect to Healthcare Provider Connect as Healthcare Professional 9. The actor selects Connect to Healthcare Provider 10. The system presents a screen prompting the user for their healthcare provider information and their patient information 11. The system validates the healthcare information [EP2] [BR3] 12. The system gives a status to actor's account (patient or provider) [BR4] 13. The system displays a message affirming connection and registration 14. System displays home menu screen that displays alerts and lists patients for healthcare providers

Alternative Paths:	<p>[AP1] The actor logs in as a registered and connected user</p> <ol style="list-style-type: none"> 1. The actor inputs their username and password 2. The actor selects Log-in option 3. The system validates the Log-in information [EP1] 4. The use case goes to step 14 of the basic path [AP3] <p>[AP2] The actor selects Go Back option</p> <ol style="list-style-type: none"> 1. The use case returns to step 1 of the basic path <p>[AP3] The actor selects deny option</p> <ol style="list-style-type: none"> 1. System displays message indicating that syncing device and location is required [BR2] 2. The use case returns to step 5 of the basic path <p>[AP4] The actor selects the Connect as Healthcare Professional option</p> <ol style="list-style-type: none"> 1. The system presents a screen prompting the user for their professional information 2. The use case goes to step 12 of the basic path
Exception Paths:	<p>[EP1] Invalid Registration/Log-in/Healthcare information</p> <ol style="list-style-type: none"> 1. System displays error message saying that the information provided was invalid 2. The use case returns to step 1 of the basic path <p>[EP2] Invalid Healthcare Provider/Healthcare Professional Information</p> <ol style="list-style-type: none"> 1. System displays message saying that it failed to connect to the healthcare provider, and it tells the user to retry 2. The use case returns to step 9
Business Rules:	<p>[BR1] All attributes are mandatory</p> <p>[BR2] Connecting a device and syncing location is mandatory</p> <p>[BR3] Connecting as a healthcare professional or a patient is mandatory</p> <p>[BR4] Healthcare professionals need permission to view all patients</p>

DEV 3 Sprint 1:

Test Case Id	Test Scenario	Test Case	Pre-Condition	Test Steps	Test Data	Expected Result	Post Condition	Actual Result	Status (Pass/Fail)
Login_1	Verify login	Enter valid username and valid password	User has an active and valid account	1.Enter Username 2. Enter Password 3. Login	Valid Username Valid Password	Login to be successful	Be on the homescreen looking at options to go to new tabs	On homescreen	Pass
Login_2	Invalid password test	Enter valid username and invalid password	User has an active and valid account	1.Enter Username 2. Enter Password 3. Login	Valid Username Invalid Password	Login Fail	Stay on login page with pop up that says invalid password below	Same as expected	Fail
Login_3	Invalid username test	Enter invalid username and valid password	User has an active and valid account	1.Enter Username 2. Enter Password 3. Login	Invalid username	Login Fail	Stay on login page with a pop up that says the username does not exist	Same as expected	Fail

DEV 4 Sprint 2

Test Case Id	Test Scenario	Test Case	Pre-Condition	Test Steps	Test Data	Expected Result	Post Condition	Actual Result	Status (Pass/Fail)
SignUp_1	Sign up successfully	Enter name, valid email address, healthcare information, and password	User has a healthcare provider and valid email	1. Enter full name 2. Enter valid email (username) 3. Enter healthcare info 5. Create Password 6. Confirm password	Valid Email (username) Valid Healthcare data Valid password	User is on homescreen, Successful Sign In	Be on the homescreen looking at options to go to new tabs, new user account is created	User is on homescreen, successful sign in	Pass
SignUp_2	Invalid email address	Enter name, enter invalid email	User has a healthcare provider and valid email	1. Enter full name 2. Enter invalid email (username)	Invalid Email (username)	User will move on to create a password	Remain on Sign-Up screen	User is prompted to re-enter email because the entered email was invalid.	Fail
SignUp_3	Password requirements not met	Enter name, valid email address, healthcare information, and password	User has a healthcare provider and valid email	1. Enter full name 2. Enter valid email (username) 3. Enter healthcare info 5. Create Password	Valid Email (username) Valid Healthcare data Invalid password	User will be able to confirm password and sign up	Remain on Sign-Up screen	User is told of password requirements and prompted to re-create password	Fail

DEV 5 Sprint 3 - UML Diagram

