Requirements Document

Required Features and Behaviors:

- Login:
    - Practitioners and patients should have two separate logins that lead to their own personalized pages.
    - **Correct Example**
        - Sample input: User: "Cgrummer" Pass: "1234"
            - Sample output: Website will lead user to the profile page associated with the username Cgrummer
            - Explanation: This example is correct because the user has inputted a username that is associated with the correct password and has led the user to the profile page associated with the username.
    - **Incorrect Example**
        - Sample input: User: "Cg rummer" Pass: "1254"
            - Sample output: The web page will give the user a message saying the username or password was incorrect and to see the help page if issue persists.
            - Explanation: The username is not allowed to contain white space and the password did not match the account with the provided username
- Sign-up:
    - The User upon selecting to sign up for the website will be prompted to input some information as well as a username and password. The website, after inputting the information should create a user profile as well as add the user and pass to the correct list depending on the type of user.
    - **Correct Example**
        - Sample input: Patient: **Y**/N User: "Cgrummer" Pass: "1234" Practitioner: "Dr. Sues"
            - Sample output: The user has selected that they are a patient and provided a username and password that is acceptable and given their Doctors name. Upon completion the website will create a new webpage for the user, add the username and password to the patient login list, and add the patient Cgrummer to the list of patients viewable by the doctor Dr.Sues.
    - **Incorrect Example**
        - Sample input: Patient: **Y**/N User: "Cgrummer" Pass: "1234" Practitioner: " "
            - Sample output: The website will not lead the user to a new web page because the user has selected that they are a patient but did not select a practitioner that they are associated with. The website

will also give the user a message saying that a practitioner is required to be selected before they can create their profile.

- Forgot Pass/User Help:
  - Upon entering the wrong password, the user is offered a link to a help page. When clicked the help page will be navigated to and the user can try to recover their username and/or password. The page will also ask if they are on the correct login as there are two logins one for patients and one for practitioners.
  - **Correct Example**
    - Sample input: Username: "Cgrummer" Security Question: "Dogs name"
      - Sample output: your password is: "1234"
      - Explanation: the user has forgotten their password but remembers their username. Upon entering the username the user will be able to answer the security question and if the user gets the question right they will be given the password associated with that username.
  - **Incorrect Example**
    - Sample input: Username: "Cgru " Security Question: "Dogs Name"
      - Sample output: The system will let the user know that there are no users associated with that username and no password will be given. This is because they have given half of the user's username.
- Data Display:
  - Upon navigating to the patients page the user will be able to see the data collected from the Smart Stride device.
  - **Correct Example**
    - Sample input User: "Cgrummer" Pass: "1234"
      - Sample output: The user is guided to their personal page where their collected data is viewable. The webpage collected the data associated with the account from the database and displays it for the user to view.
  - **Incorrect Example**
    - Sample input User:"Cgrummer" Pass: "1234"
      - Sample output: The page is viewable to the user but there is no data from the patient to be collected from the database. The page would be blank and the webpage would suggest to the user that they navigate to the how to guide for the smart stride device to get started collecting data.

Functional Requirements:

- Data display
  - The user needs to be able to view the data from the database
- Login credentials collection

- o   Need a collection of usernames and password associated with users of two kinds: Practitioners and Patients
- Data collection
  - o   Need to collect the data from the smart stride device and put the data under the correct user in the database
- User associations database
  - o   The user associations database needs to connect the webpage to the data collected by smart stride devise

Interface Requirements:

- Interface between Amplify and RDS
  - o   The webhosting service Amplify needs to connect to the database hosting service RDS
- Data Collection between RDS and Smart Stride Device
  - o   The Smart Stride Device needs to upload collected data to the RDS database
- User Login interface
  - o   The User Login needs to coordinate the user with their appropriate webpage
- Practitioner and patient interface
  - o   Practitioner needs to be able to view their patients and their patient's data

Performance Requirements:

- Estimated 5 Gb per patient
  - o   Used for amount of data collected by smart stride device and login credentials
- Estimated less than one Gb per practitioner.
  - o   Needs list of patients and login credentials
- Accurate Graphical displays of patient data
  - o   Need to display collected data