Selamta Client Management Requirements Document
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5.1 **Introduction**

We are creating a front-end that will receive user input which will be a series of questions about a person's background information and medical history. The front-end will be user-friendly and be a mix of radio buttons, text boxes, and drop down menus in order to properly capture the patient information. The front-end will be connected to a database that will securely store the data. The data from the front-end will be stored in an SQL database that is hosted on an AWS web server.

5.2 **Component Breakdown**

5.2.1   GUI Client CSC -- Graphical interface that will receive user input as a series of questions about a person's background information and medical history.
5.2.1.1   Log in Screen CSU-- Front-end display that will allow the user to login to accounts by authenticating a password
5.2.1.2   New Client Profile CSU -- Front-end display that will allow the user to create a new profile for a patient
5.2.1.3   Update Client Profile CSU -- Front-end display that will allow the user to update a patient's profile
5.2.1.5   Search module -- Front-end module that will allow the user to search through our database

5.2.2   VPN CSC -- Network protocol that will allow network activity to be conducted in a secure manner
5.2.2.1   VPN Client CSU -- The VPN Client that will be installed on the host computer

5.2.3   Server CSC -- SQL Database that will securely store the data
5.2.2.1   Cloud Storage CSU -- AWS will be used to allow the server to exist in the cloud
5.2.2.2   Backend Database CSU -- SQL database that will allow the secure storage of user data

5.3 **Functional Requirements by CSC**

5.3.1.1   GUI Functional Requirements
5.3.1.2   The GUI subsystem shall allow the user to input their background information and medical history

5.3.1.3   The GUI subsystem shall grant authorized users access to VPN using a username and password

5.3.1.4   The GUI subsystem shall create a new patient profile with the submission of completed form

5.3.1.5   The GUI subsystem shall give the user the ability to update or add information of an existing patient profile

5.3.1.6   The GUI subsystem shall allow the user to search for an existing patient profile by tag or keyword

5.3.2.1   VPN Functional Requirements

5.3.2.2   The VPN subsystem shall be installed on the host computer and allow it to operate securely

5.3.2.3   The VPN subsystem shall be configured to be installed on any Selamta machines

5.3.3.1   Server Functional Requirements

5.3.3.1   The Server subsystem shall allow the inputted user data to be stored over a network in a secure database

5.3.3.2   The Server subsystem shall be hosted on a AWS web server so that it can be remotely accessed

5.3.3.3   The Server subsystem shall allow the front-end data to be stored in an SQL Database

5.4   **Performance Requirements by CSC**

5.4.1   GUI CSC Performance Requirements

5.4.1.1   Allow operation of the front-end platform in a timely, and user-friendly manner

5.4.2   VPN CSC Performance Requirements

5.4.2.1   Ensure that the data is secured over the network

5.4.3   Server CSC Performance Requirements

5.4.3.1   Ensure that the correct data is retrieved when called

5.5   Project Environment Requirements

5.5.1   Development Environment Requirements

Following are the database development requirements for Selamta Client Management Platform:

Category	Requirement
Processor(CPU)	Intel Core or Xeon 3GHz (or Dual Core 2GHz) or equal AMD CPU
Core	Single
RAM	4 GB
Graphic Accelerators	nVidia or ATI with support of OpenGL 1.5 or higher
Display Resolution	1280x1024

5.5.2   GUI Environment Requirements

Following are the GUI use requirements for Selamta Client Management Platform:

Category	Requirement
Windows	Windows 7 or later
Mac	OSX Yosemite 10.0 or later
Linux	64-bit Ubuntu 14.04+, Debian 8+, openSUSE 13.3+, or Linux 24+