

SELAMTA Client Management Application, CMSI 401

Write-up compiled by: Jordan Sanders and Basil Latif

5.0 - Selamta CRM Application Design Document

5.1 - Introduction

"SELAMTA is a non-profit, community-based organization providing a range of mental health and social services to immigrants, refugees, and asylum-seekers from around the world. Our focus is on healing, successful resettlement, and promoting the well-being for individual, couples, and families."

Our project will aim to digitize the process of adding a new client for SELAMTA International. In order for a new patient to join the SELAMTA database, they need to fill out an extensive form of information ranging from their basic biodata to more sensitive questions that range from the reasons they had to leave their home country to if they have any history of mental illness.

We are creating a front-end component that will receive the form digitally as input provided by a user. It will match the form containing information about a person's background information and medical history that SELAMTA requires a potential client to fill out on paper. 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 an AWS-hosted, MySQL database that will securely store the data. From a separate front-end component, a SELAMTA employee will be able to log in, and view the data submitted by clients.

Please note, SELAMTA is a third-party organization and all claims, technologies, and administrative rights to this application shall be transferred to SELAMTA upon delivery of the project.

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 authentication

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 GUI Functional Requirements
 - 5.3.1.1 The GUI subsystem landing page and all GUI subsystem pages shall feature any provided SELAMTA logos and SELAMTA primary colors.
 - 5.3.1.2 The GUI subsystem landing page shall have a button labelled "SELAMTA Employee Login" that will bring the user to the employee login page when picked
 - 5.3.1.3 The GUI subsystem landing page shall have a button labelled "New Employee Registration" that shall take the user to the employee registration page when clicked
 - 5.3.1.4 The GUI subsystem employee registration page shall attempt to authenticate an unregistered employee by presenting a text box labelled "Please input company code" which shall be SELAMTA01
 - 5.3.1.5 The GUI subsystem employee registration page have a button that, when clicked, shall attempt to register an employee who is able to input the correct company code
 - 5.3.1.6 The GUI subsystem employee registration page will assign the now authenticated employee a unique EmployeeID and take them employee login page
 - 5.3.1.7 The GUI subsystem employee login page shall attempt to authenticate a registered employee attempting to sign in by a text field labelled "Input EmployeeID"
 - 5.3.1.8 The GUI subsystem employee login page shall have a button accompanying the "Input EmployeeID" text field that when clicked shall attempt to authenticate the user by the EmployeeID in the text field
 - 5.3.1.9 The GUI subsystem employee profile page shall allow an authenticated employee to view the profile for a client attached to their account via a button labelled "View User Profiles"
 - 5.3.1.10 The GUI subsystem myProfiles page shall display any user profiles attached to the logged in user in a table list format.

- 5.3.1.11 The GUI subsystem myProfiles page shall allow the user to interact with the list of profiles by clicking on an individual profile which will make that profile viewable in the profile view page
- 5.3.1.12 The GUI subsystem myProfiles page shall allow an authenticated employee to delete a profile attached to their account
- 5.3.1.13 The GUI subsystem profile view page shall allow an authenticated employee to transfer attachment of a profile that they are viewing to another employee
- 5.3.1.14 The GUI subsystem profile view page shall have a text input form at the bottom of a viewed profile labelled "Transfer attachment of this profile to the following EmployeeID"
- 5.3.1.15 The GUI subsystem profile view page shall have a button accompanying the text input that will transfer attachment of the form to the employee whose EmployeeID in the text input form when the button is clicked.
- 5.3.1.16 The GUI subsystem myProfiles page shall allow an authenticated employee to create a new profile for a client
- 5.3.1.17 The GUI subsystem profile creation page shall present instructions on the operation of the site to the potential client right before profile creation
- 5.3.1.18 The GUI subsystem profile creation page will display the digitized SELAMTA Intake Form when a button labelled "Begin form" is clicked
- 5.3.1.19 The GUI subsystem profile creation page shall employ dropdown menus to allow for formatted input
- 5.3.1.20 The GUI subsystem profile creation page shall employ tables to allow for formatted input
- 5.3.1.21 The GUI subsystem profile creation page shall employ radio buttons to allow for input
- 5.3.1.22 The GUI subsystem profile creation page shall employ date pickers to allow for input
- 5.3.1.23 The GUI subsystem profile creation page shall employ text input forms for input
- 5.3.1.24 The GUI subsystem profile creation page shall altogether present the digitized form to the user in an intuitive manner.
- 5.3.1.25 The GUI subsystem profile creation page shall allow the client to input their background information
- 5.3.1.26 The GUI subsystem profile creation page shall allow the user to input their medical history
- 5.3.1.27 The GUI subsystem profile creation page shall have a text input at the end of the form labelled "please input EmployeeID to complete form"
- 5.3.1.28 The GUI subsystem profile creation page shall create a new patient form upon the submission of the completed form
- 5.3.1.29 The GUI subsystem profile creation page shall attach the new patient form to the profile of the EmployeeID that was inputted at the end of the form

- 5.3.1.30 The GUI subsystem myProfiles page shall give the user the ability to update or add information of an existing patient profile
- 5.3.1.31 The GUI subsystem profile view page shall allow the authorized users the ability to add messages to a patient profile

5.3.2 VPN Functional Requirements

- 5.3.2.1 The VPN subsystem will be handled by a third-party provider.
- 5.3.2.2 The VPN subsystem shall be installed on the host computer.
- 5.3.2.3 The VPN subsystem shall be used to secure network transmissions between the database and the local application

5.3.3 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
-----	-----

equal higher	Processor(CPU)	Intel Core or Xeon 3GHz (or Dual Core 2GHz) or
	Core	Single
	RAM	4 GB
	Graphic Accelerators	nVidia or ATI with support of OpenGL 1.5 or
	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+	