Technical Style Guide

# #INCLUDES

<iostream> //cin, cout

<string> //strings

<vector> //vectors

<fstream> //reading, writing to file

<cstdio> //eof

# Containers

struct **PersonalInfo** string fName, lName, address, phone, location  
 char email[30], bloodGroup[10]  
 int date;

struct **User** - string username, password;  
 - int permission;  
 - **PersonalInfo** uData;  
// Will store all the users personal and relevant medical information to be accessed.

vector<**User**> **users** // vector of User struct

User **loggedinUser**; //LoggedinUser struct

# Global Variables

string **filepathUsersLogin** //location of usersLogin.txt file

string **message** //Pass messages to display to the user

# Functions

bool **checkLogin()**  
// Returns true if the username and password entered match. Returns false after 3 wrong attempts. Stores users information in User vector/struct.

## **checkLogin() – Local variables**

int tries //variable to count number of attempts user has logging in

string input //variable for users input

string line //variable for each line read from file

ifstream usersLoginFile(filepathUsersLogin) //open file at filepathUsersLogin

string tempName //temporary variable for storing extracted username from file

string tempPass //temporary variable for storing extracted password from file

size\_t passwordLength // length of password from line in file for calculating with

size\_t pos //position calculated by getting length of line and takeaway one

string tempPerm //temporary variable for storing extracted permission level from file using pos

void **loginRedirection ()**  
// Depending on the logged in users permission level: 0 - Admin, 1 - Hospital, 2 - Donor; Redirects the user to pages they are allowed to access, or boots user out of system if they don’t have permission