**CS021 Final Project Instruction & Summary**

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| --- | --- | --- | --- | --- |
| **No.** | **Function Name** | **Input** | **Processing** | **Output** |
| 1 | main() | X | 1. **Call functions**    1. **Connecting to DB** *[Login\_protocol()]*    2. **Display main Menu** *[mainManu\_option()]*    3. **Move to Options no.4-8** | X |
| 2 | login\_protocol() | X | 1. Connecting to DB (MySQL, 2020) 2. Prompt users to type on the ID and Password (I made it as commnets, and I changed it to login automatically) 3. Check if the connection is okay | connection (bool), DB\_connector  (DB connection) |
| 3 | mainMenu\_option() | X | 1. Display Menu 2. Prompt users to enter the option on the list 3. Check the validity of the input | option (int [1-6]) |
| 4 | getUserFromDB() | DB\_connector (DB connection) | 1. Menu that users can choose for choosing members of the website in certain criteria like ID or birthday    1. All users    2. By birthday (Validation)       1. Validation of date *[date\_validate\_check()]*       2. StartDate < EndDate    3. By userID       1. Prompt users to input    4. By Last Name       1. Prompt users to input 2. Generate SQL statement (zyBooks, 2020) 3. Open file and create the user info table | X |
| 5 | ManageUserFromDB() | DB\_connector (DB connection) | 1. Menu that users can choose for modifying or adding user information    1. Change personal info       1. Ask user about from what user ID they would want to change their info       2. Prompt users to input the data that they want to modify and validate it       3. Using replace method, create the SQL line       4. Call *[date\_validate\_check()] if needed*    2. Add personal info       1. Prompt users to type every single information (ID, birthday, first and last name, and email) that DB needs to save       2. Check if the ID (primary key) is on the DB       3. Create the SQL line    3. Clear the uses data       1. Clear user info       2. Clear data from user exercise data table 2. Generate SQL statement (zyBooks, 2020) and execute, and commit (MySQL, 2020) 3. Email validation (Geeksforgeeks, 2020) in all email part (regular expression) | X |
| 6 | addExerciseDB() | DB\_connector (DB connection) | 1. Call Exercise Part like legs, chest from the DB and display it as a menu    1. If the user chooses the parts that already exist on DB       1. Input Exercise    2. If the user wants to create more exercise parts       1. Input Parts (check if it exists on the DB)       2. Input Exercise 2. Generate SQL statement (zyBooks, 2020) and execute, and commit (MySQL, 2020) | X |
| 7 | createTable() | DB\_connector (DB connection) | 1. Create table    1. Start date and end date input       1. Call*[date\_validate\_check()]*       2. Startdate < enddate    2. User ID input    3. Open file and generate the exercise table 2. Generate SQL statement (zyBooks, 2020) | X |
| 8 | eventChooseMembers() | DB\_connector (DB connection) | 1. Randomly choose members in the list    1. Import random 2. Send email using html language (zyBooks, 2020)    1. Email will consist of HTML    2. (Robinson, n.d.), (python, 2020)    3. (I only enable my email to get email… you can check it by reactivating comments that I made.) | X |
| 9 | date\_validate\_check() | date (list)  [‘mm’,’dd’,’yyyy’] | 1. Check leap year, 30,31 days month | True/False |

**Instruction**

Basically, my program consists of full of menus. First, the user will notice that you have five options: calling, modifying/adding, adding exercise list on the website, creating exercise table, and picking random member for the events. I made a quit menu as well, so it is straightforward to follow when executing gym recorder admin.

**For Grader**

1. [Download] mysql.connector library <https://dev.mysql.com/downloads/connector/python/>
2. You will need to use “jhs9104” in my program. There are several other ID, but this is my ID that I made test information, so it will be easier to test.
3. Main menu 2 > sub menu 1(change personal info): it takes a bit of time to execute SQL code (about 5 secs).
4. Main menu 2 > submenu 3 (clear the users’ data): Please delete ‘hwasungin’ to check if the data has gone or not! I will be using as a second testID
5. Main menu 5 (Randomly choose members): I have made it possible to send emails to multiple people, but my friends, who help me with registering my website, will get bunch of emails. (I made it as a comment!) And to check if the email function works, use other email instead of message[‘To’] = [hwasungishungry@gmail.com](mailto:hwasungishungry@gmail.com).
6. To check if the data has been added or modified, you can check it from <https://webdb.uvm.edu/phpMyAdmin/sql.php?server=1&db=JJUNG2_database&table=tblExerciseSteps&pos=0>

**User ID: jjung2\_admin**

**Password: UzAn4dsM6VIZigk1**

1. My website: <https://jjung2.w3.uvm.edu/cs008/final/index.php> ! If you add data in Main menu 3, you will find the added display on recorder > record Exercise or create Table

**Testing sample**

1. Execute > Main menu 1 > sub menu 2 > input “06/21/2000” as a starting date, and “12/12/2000” as an end date.
   1. Results: program will write the data in the file that the user has entered in a table format.
2. Main menu 3 > sub menu 4 > Enter “Shoulder” as an exercise part > ‘y’ to verify > Enter “Shoulder Press” as a new exercise > ‘y’ to verify > <https://jjung2.w3.uvm.edu/cs008/final/recordExercise.php> check the Parts list in this website
3. Main menu 2 > sub menu 1 > Enter “jhs9104” > press ‘n’ to continue > input ‘1 2 4’ > Change First Name > Change Last Names > Change birthday > check the data from Main menu 1 > sub menu 3
4. Main menu 4 > Enter “jhs9104” > input “11/01/2020” as a starting date, and “12/01/2020” as an end date > type the file name with txt > check the data
5. Main menu 5 > Enter “4” > you will see the members that are randomly picked (and if you deactivate the comment, you will see the email)

I try my best to deal with all the error and exception that will occur, so no matter what you entered, it will catch the error. The reason that I did not have thorough instructions and only a few testing samples is that it is really easy to follow with the menu.

**References**

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