CIS355A Lab Report

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**Lab Week 2**

**Objective/Purpose of the program**

The purpose of the program is to get the BMI and maximum heart rate of the user. This week the console program that was previously written is now a GUI.

**Analysis/Design**

Describe the approach/structure of program.

For starters, the main contains the code to build the GUI and make it visible. The HealthProfile class from last week is now updated so it holds a parameterized constructor. The HealthProfileGUI class is where the main part of the gui is contain. In the constructor, it declares all the needed JTextFields, JButtons, as well as creates the lay out. I also created a private class that gets all the input of the user and uses the health profile class to set the input and return the results.

**Testing/Results**

Does your program satisfy all requirements of the lab?

My program does satisfy all requirements of this lab.

If yes, how did you test it? Indicate test cases used, expected values, and *show results with screen shots.* **For example:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Case** | **Description** | **Test Data** | **Expected Result** | **Actual Result** |
| 1 | User enters only the name | Emma | Message : please fill out all required fields | ../Desktop/Screen%20Shot%202017-11-05%20at%208.24.36%20PM.png |
| 2 | User input - normal | Emma  Age = 34  Weight = 130  Height = 5’6” | BMI is 21.0, Normal  Max Heart Rate is 166 | ../Desktop/Screen%20Shot%202017-11-05%20at%208.27.18%20PM.png |

If any requirements are NOT met, *document the known issues.* What did you do to try to solve them?

Make sure you demonstrate in your testing the parts that are working correctly.

**Conclusions / Lessons Learned**

What difficult problems did you encounter, and how did you handle them?

The problem I came across was working with GUI. I took the help of week 2 lesson to study and see how it can be used in the lab.

What new concepts did you learn/reinforce with this lab?

I got to reinforce the concepts of inheritance and OOP rules in this lab.

Is there anything you would have done differently?

I wouldn’t of done anything differently in this lab.