**CSE1502 – Intro to Software Dev. with C++**

**Software Development Lab Report**

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*By*

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Homework or Lab #2

Teaching Instructor:

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# 1. Problem Statements

*Problem 1 requires the program to ask the user for their full name and height in inches, process the input, then output a “user profile” which lists their first name, last name, and height (converted into feet’ inches”) on 3 separate lines.*

# 2. Requirements

*This section lists the functional requirements given for the software. Functional requirements dictate what the software needs to do (i.e., that major functions of the software). Each requirement must be presented using a numbered list. In addition, each requirement must specify one (and only one) function of the system, it must be attainable and verifiable. For example:*

1. *The software shall display a menu to receive user input.*
   1. *The user menu shall contain the options for entering contact information.*
   2. *The user menu shall display an option to terminate the program.*
2. *The software shall store user information using a file.*
3. *…*

*1. The software shall output a line to the terminal asking the user for their full name.*

*2. The user shall input their full name.*

*2.1 The software shall parse the input and save the user’s first and last name separately.*

*3. The software shall ask the user for their height in inches.*

*3.1 The software shall*

# 3. Software Construction (C++ Code)

*This section includes the software implementation of the design provided in section 3—it includes annotated explanations of well-formatted and commented C++ code. Students shall follow coding guidelines (given by Faculty/TA) to ensure high-quality software. Example is presented below.*

/\*

My great function my\_function() takes inputs and does awesome things.

Don’t tell anyone but behind the scenes, it's really using narf()

\*/

// call subfunction narf() on the inputs and store the results in awesome

void my\_function(int inputs[6]) {

int awesomeness;

awesomeness = narf(inputs);

return awesomeness;

}

.

.

.

# 4. Software Testing

*This section provides information and test cases that are used to verify that all requirements identified in section 1are achieved by the software. Sample screenshots shall be included here.*

# 5. Self-Reflection

*This section provides information about what the student learned, what challenges were encountered, and what the student did to overcome the challenges and complete the lab. Please make sure that you document any other information that was helpful to you during this assignment.*

(*Note: In case of multiple problems, repeat steps1-5 above for each problem.*)