**Data Structures and Algorithms II**

**User's Manual – Project 1**

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**Setup and Compilation**

1. Download and unzip the submission from eLearning on a Linux box in the multi-platform lab.

2. The submission includes:

* fileHandling.hpp (the FileHandling class will create the raw.txt and encrypted.txt files)
* fileHandling.cpp
* hashtable.hpp (the HashTable class will create the hashtable used to store and index the userID’s and passwords. The hashtable creates an array of linked lists)
* hashtable.cpp
* list.hpp (the List class will create a linked list that the nodes will populate)
* list.cpp
* node.hpp (the Node class is responsible for the individual users and is implemented with pointers as part of the linked list.)
* node.cpp
* main.cpp (the main file is the driver for the program)
* UserManual.docx (this file)
* UML.jpg (put comments)
* lastNames.txt (put comments)

3. Environment: This program has been tested on the UWF linux server available at cs-ssh.uwf.edu.

4. Compiling. This program includes a Makefile. At the command line in Linux, type make. The program produces an executable entitled main

**Running the program.** Be sure file1.hpp, …., and lastNames.txt are in the same directory as the executable. Issue the command ./program No command line arguments are required or checked. As long as you unzip the file folder following default conditions this will not be an issue.

raw.txt and encrypted.txt (which will require no user interaction) will be formatted so that the first string is the userID and the second string is the password.

User input: no user interaction with the program is required.

**Output:** All output goes to the console. Output will be similar to this:

Userid      Password   Attempted  Result  
SMITH       asdfvfrty  asdfvfrty  match   
JOHNSON     okmnjuygt  okmnjuygt  match   
WILLIAMS    yhnbgtrde  yhnbgtrde  match   
JONES       wsxzaqwer  wsxzaqwer  match   
BROWN       bhvfgtyui  bhvfgtyui  match