Deliverable 1

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| Id | 1 |
| Function | Open an account |
| User | Manager |
| Instruction | Login as manager. Select a specific customer. Select open an account. Select chequing or savings. |

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| Id | 2 |
| Function | Only able to close accounts that have zero balance |
| User | Manager |
| Instruction | When manager attempts to close an account with more than 0 balance message is displayed. Similar effect when customer attempts to close account. |

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| Id | 3 |
| Function | Open an account |
| User | Manager |
| Instruction | Manager can open an account. |

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| Id | 4 |
| Function | Display account details of any given customer or all |
| User | Manager |
| Instruction | Login as manager. Select option to display all customers. |

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| Id | 5 |
| Function | Obtain aggregate data on the funds in the bank categorized appropriately |
| User | Manager |
| Instruction |  |

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| Id | 6 |
| Function | Deposit money to an account |
| User | Client |
| Instruction | Login as a customer. Select an account. Select deposit money. |

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| Id | 7 |
| Function | Withdraw money from an account |
| User | Client |
| Instruction | Login as customer. Select an account. Select withdraw. It will work as long as you still have money left in your bank. |

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| Id | 8 |
| Function | Warning message when withdrawing from any accounts that do not have enough than withdrawal amounts |
| User | Client |
| Instruction | Sends warning message if insufficient funds. |

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| Id | 9 |
| Function | Warning message if client tries to withdraw and their chequing account is below $1,000 and if continuing any withdrawal on chequing you get fined $2.00/transaction |
| User | Client |
| Instruction | Warns them of 2$ surcharge fee. |

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| Id | 10 |
| Function | Transfer sum from one account to another |
| User | Client |
| Instruction | Login as user. Select an account. Select transfer money. |

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| Id | 11 |
| Function | Obtain balance |
| User | Client |
| Instruction | Login as user. Select an account. Select check balance. |

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| Id | 12 |
| Function | Open chequing or savings account |
| User | Client |
| Instruction | Login as user. Select open an account. Select which account to open. |

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| Id | 13 |
| Function | Withdraw money from an account |
| User | Client |
| Instruction | Login as user. Select account. Select withdraw. Enter amount to withdraw. |

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| Id | 14 |
| Function | Turn on/off execution trace, if execution trace is turned on the information will be written to a file that can be later printed out by maintenance person. |
| User | Maintenance |
| Instruction | Login as maintenance. Yes to turn on. And no to turn off. |

Deliverable 2: We added extensive execution trace and we also have encryption for password when they are stored in the text files.

Deliverable 3: Source code is in the folder called main.cpp along with the rest of .cpp file. The accounts.txt must be the one that was submitted with the assignment. The username for maintenance is maintenance and the password: testing. The username for manager is manager and password is test. To compile the code: g++ -std=c++-11 –o filename.exe main.cpp. Followed by running filename.exe.

Deliverable 4: See “Deliverable 4.docx”

Deliverable 5: We learned how to do classes in c++ and realize that you can initialize constructors by doing ClassName::ClassName(parameter1, parameter2, etc):variable1(initalizevalue), variable2(initializevalue), etc…{class body};

we realized we would started earlier for this assignment but we had to learn C++ and it took me a while. We wanted to implement a lot of new features but took too long learning C++.