

## Functional Requirements – Final

1. Error handling log, Run-time error handling.
2. Upon startup, a description of functionality should be given.
3. The system should be able to handle positive and negative words.
4. Programs will not be able to be edited, any incorrect input will result in an error.
5. PC and memory should be reported when run-time error occurs
6. Memory overflow should cause an immediate HALT and output a message
7. program will execute in its entirety when a -99999 command is inputted in the user input window
8. any errors that occur during runtime will be given to the user using a pop up message box.
9. Help manual should be displayed to user.
10. Main memory should be displayed at runtime.
11. Implemented GUI should have views into the memory, and the user inputs
12. Program needs commands to add/subtract/multiply/divide the accumulator
13. Program needs commands that allow the PC to branch to specified locations, whether accumulator is 0/negative/always
14. Program needs commands that allow keyboard input of words to memory and console output of memory.
15. Program will have commands to load the accumulator into memory, and load memory into the accumulator