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 should be able to be reprogrammed before termination.
- 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. Run/Stop button for execution (halting).
- 8. The system should have a menu with options at start up.
- 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