Functional Requirements:

File select button

File selection links to user’s files

File Run button runs user selected file

User Text editor

User input submit

Console display - displays results

Updates console display with user input (if applicable)

Memory display- displays the memory from the file

Updates memory display with user input (if applicable)

Accumulator display- displays what is stored in the accumulator

Updates accumulator display with user input (if applicable)

A step-through button-steps through the function and highlights each element of the

register/console/memory as it encounters it in the function

Errors will display in a pop-up message

Error pop-up messages can be exited with a click and the user can re-enter, or re-load whatever the case may be

An exit button that terminates the program upon clicking

Usable - intuitive and user-friendly interface with clear navigation and consistent layout.

Efficient - simple and quick to use, doesn’t have unnecessary load time (longer than 2 seconds)

Intuitive - the user should not require many instructions to use it, but it does provide instructions that are easy to follow