SRS Doc Part 1

Functional Requirements:

1. All buttons/sections shall be labeled.

2. Error messages shall be printed in red.

3. The system shall produce errors specific to the problem to help the user troubleshoot.

4. The system shall display all registers and the accumulator for users to see.

5. Buttons shall produce feedback to show that they have been pressed.

6. Uploading a file shall produce feedback to notify the user whether or not it was successful.

7. The system shall allow users to remove or re-upload files in case of uploading the wrong one.

8. The system shall notify users of incompatible file types.

9. The system shall identify programs without a halt statement and exit the program.

10. The system shall allow users to step through a program.

11. The system shall allow users to manually edit registers.

12. If a user's input is not accepted the system shall allow them to enter input again to correct the mistake.

13. The system shall automatically add a plus sign to a user input integer that is not specified to be negative.

14. A help button shall be available so that users can read a basic introduction to the software.

15. The system shall support a 100-word memory for BasicML words.

Non-Functional Requirements:

1. The system shall be created with a consistent and modest color scheme.

2. The system shall operate without unexpected crashes.

3. The system shall include documentation to help users understand BasicML vocabulary.