Bryan Edman

10482719

Functional requirements First Draft

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| **Functional Requirement ID** | **Description of Requirement** |
| FR1 | System shall read a signed 4-digit instruction (word) |
| FR2 | System shall hold in memory up to 100 instructions |
| FR3 | System shall allow a full program to be entered before running said program. |
| FR4 | System shall distinguish between word instruction and operand (memory location) |
| FR5 | System shall write any word from memory to the screen |
| FR6 | System shall load a word from memory into accumulator |
| FR7 | System shall store a word from accumulator into memory |
| FR8 | System shall add a word from accumulator and a word in memory saving result in accumulator |
| FR9 | Shall subtract a word in memory from a word in accumulator |
| FR10 | Shall divide a word in accumulator by a word in memory |
| FR11 | Shall multiply a word in memory by a word in accumulator |
| FR12 | System shall branch from operating on an instruction to an instruction in another memory location. |
| FR13 | System shall branch to new memory location only if accumulator is negative. |
| FR14 | System shall branch to new memory location only if accumulator is equal to zero |
| FR15 | System shall accept code to halt and safely end computation and return |