



Faculty of Computers and Artificial Intelligence Cairo University

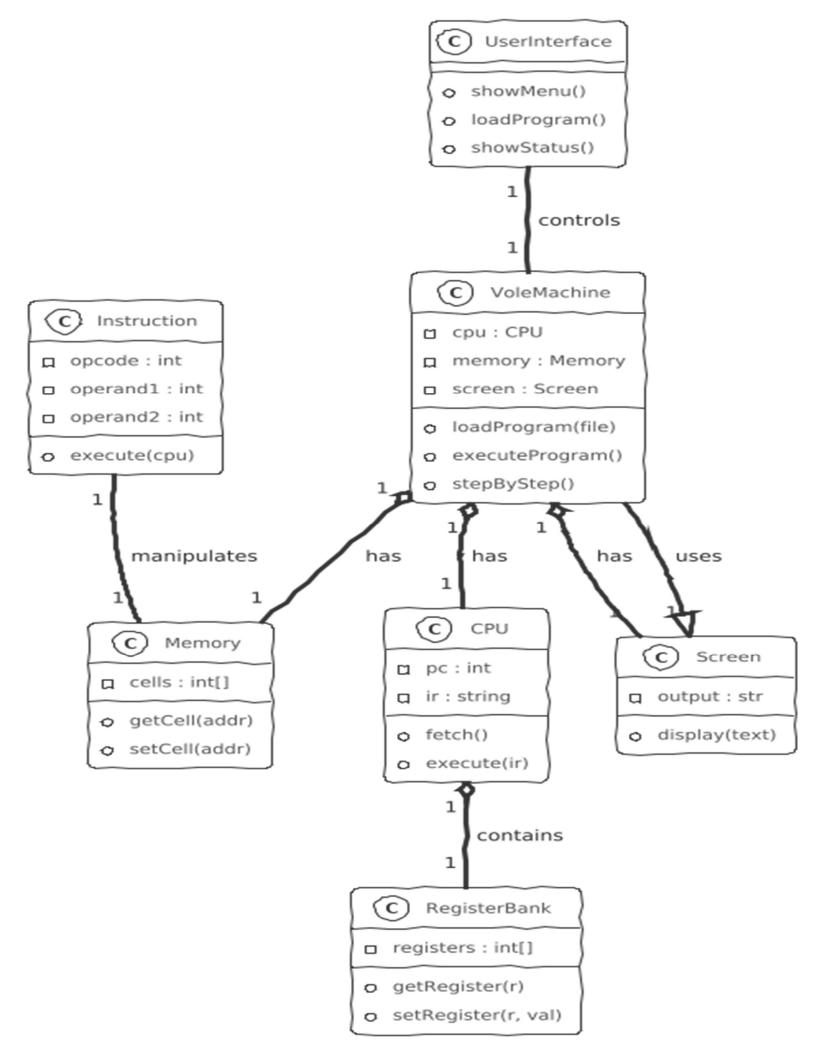
Object Oriented Programming (CS213)

Assignment1 - Task 4

Supervised by Dr. Mohammed El-Ramly

Team Members and IDs.

Qossay Mohammed Mahmoud	20230722
Saleem Sami Saleem Aljerjawi	20230794
Marwan Ali Mohamed	20230384



Work Break-Down Table

Qossay Mohammed	- Implemented the Memory Class (Memory.h, Memory.cpp) for managing memory access and displaying memory contents.
	- Developed methods for memory access (getCell, setCell) and error handling for out-of-bounds memory addresses.
	- Implemented the RegisterBank Class (RegisterBank.h, RegisterBank.cpp) for managing registers, reading, writing, and displaying register values.
Saleem Aljerjawi	 Developed the UserInterface Class (UserInterface.h, UserInterface.cpp) for managing user input, loading programs, and controlling program execution. Added file loading mechanism for loading programs into memory.
Marwan Ali	- Implemented the CPU Class (CPU.h, CPU.cpp) to decode and execute instructions, interact with memory and registers, and control program execution with the PC.
	- Developed the instruction execution logic (LOAD, STORE, ADD, etc.) and error handling for opcodes.
ALL	- VoleMachine Class: All the team contributed to integrating the Memory, Registers, CPU, and User Interface to ensure proper interaction and program execution.

GitHub Part

https://github.com/Saleem-Aljerjawi/VoleMachineSimulator

