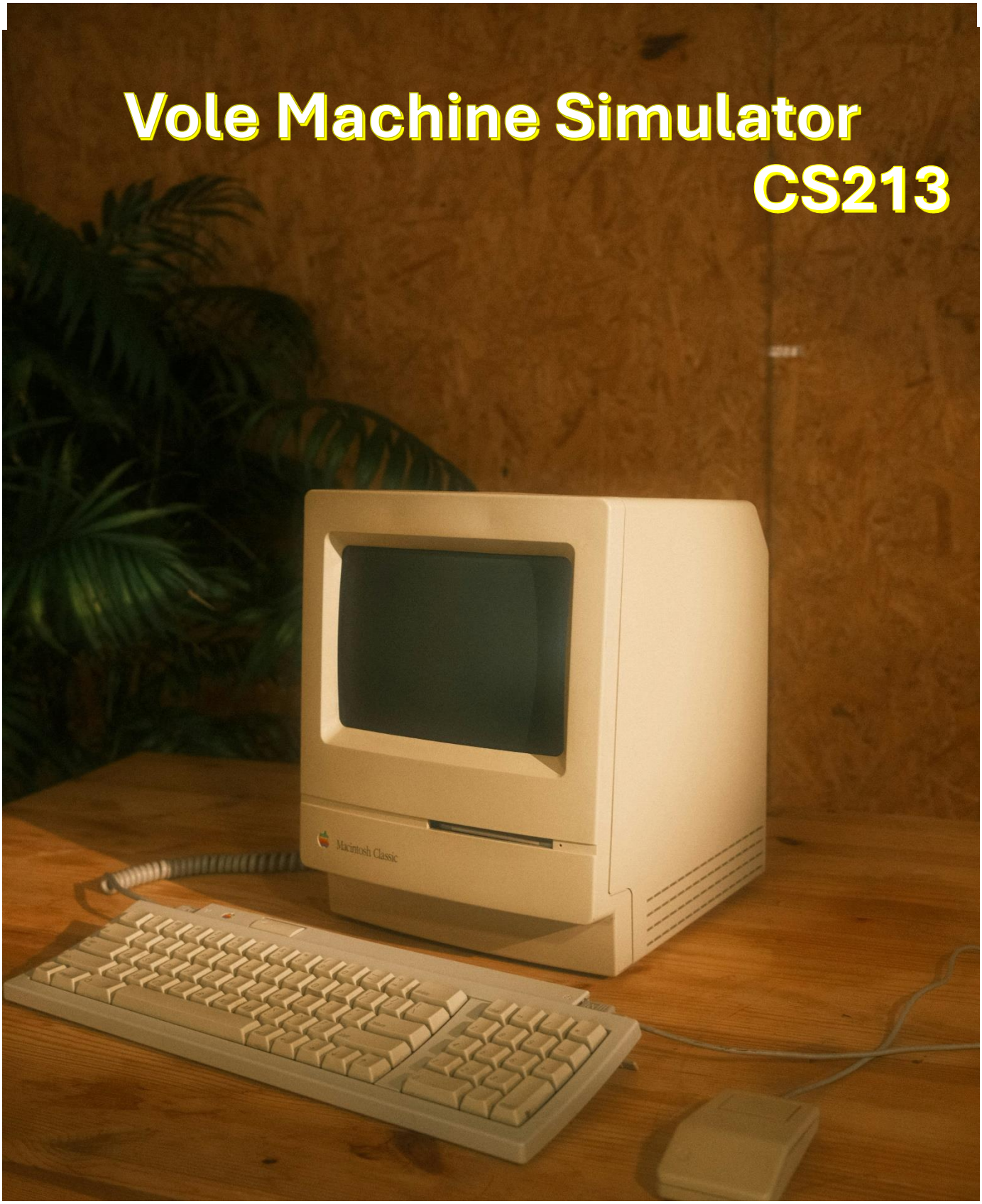
Vole Machine Simulator
CS213



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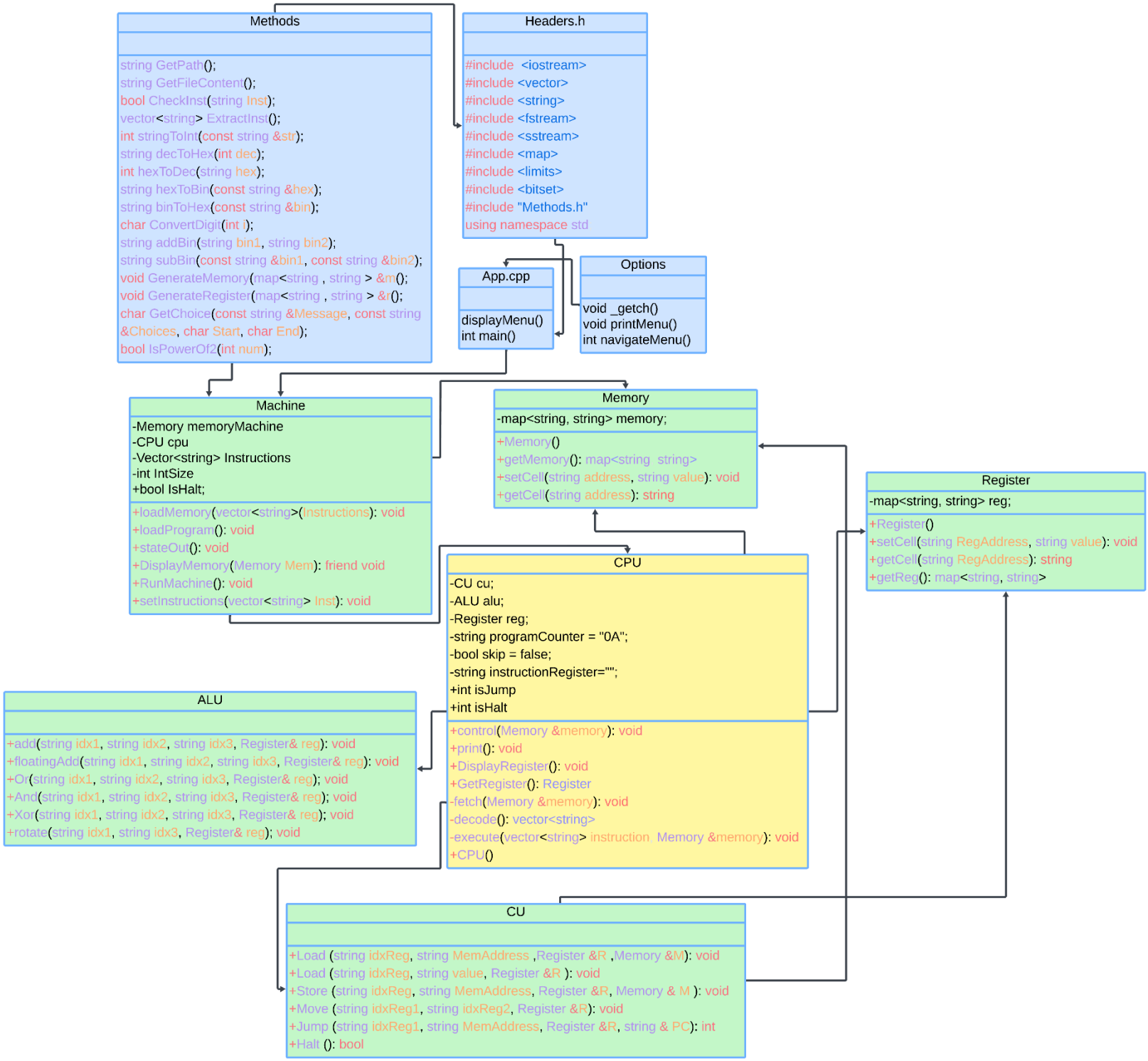
Abdullah Mohammed	20230231
Hossam Abdelaziz	20230121

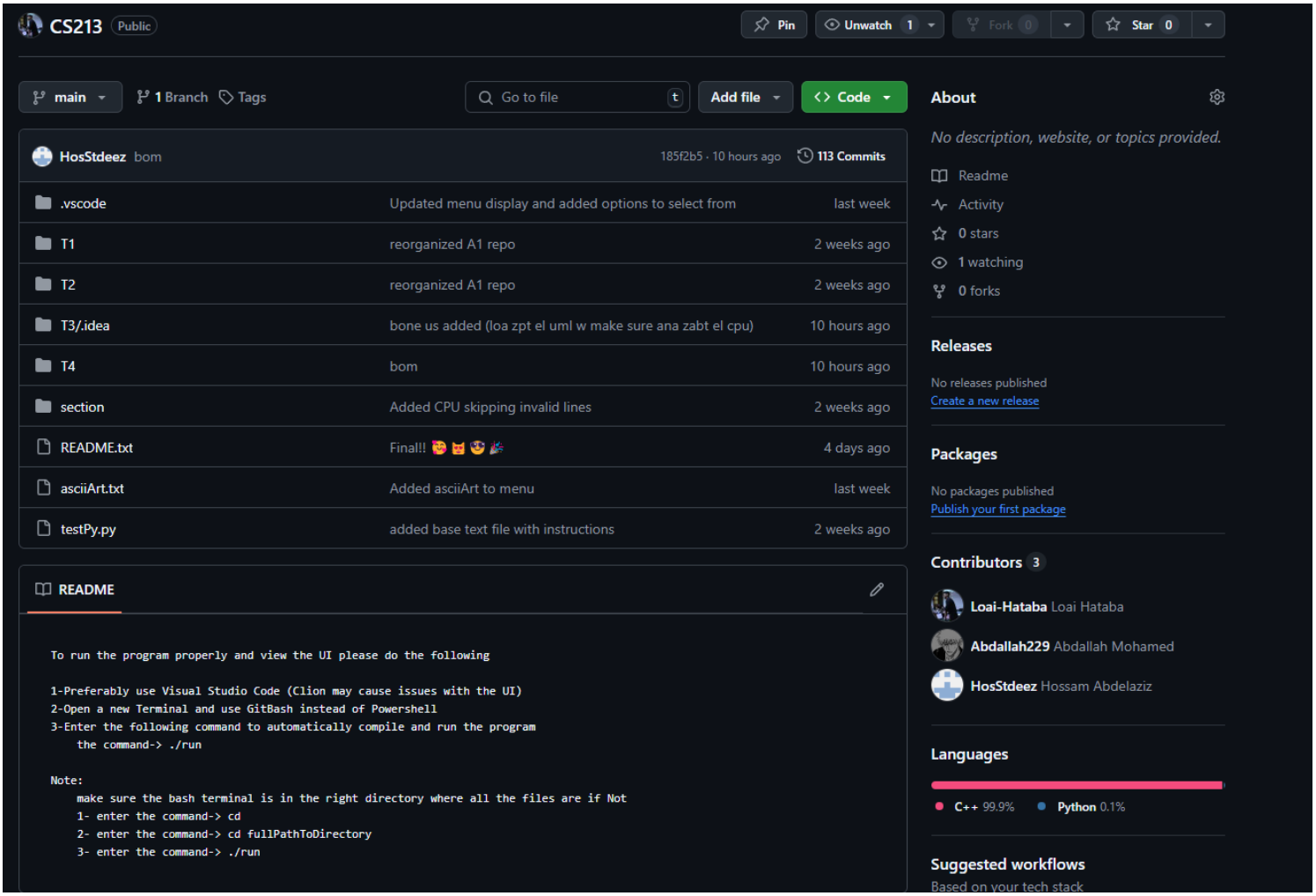
UML System Design



Workload Split:

- **App (Loai, Abdullah, Hossam)**
  The Main app that handles menu display and input.
- **Machine (Loai, Abdullah, Hossam)**
  Extracts instructions from file and stores it in memory and calls out the CPU to handle programs.
- **Memory (Abdullah)**
  The Main memory where the programs are stored.
- **Register (Abdullah)**
  The random-access memory where programs processes are stored in.
- **CPU (Loai)**
  The Processing Unit which calls the needed resources and processes to execute the command.
- **CU (Abdullah)**
  The Computation unit which handles the processes such as storing in the registers and memory and skipping instructions.
- **ALU (Hossam)**
  The Arithmetic unit which handles the mathematical operations.
- **Headers.h (Abdullah)**
  All C++ necessary libraries iostream, string, ...etc.
- **Methods (Loai, Abdullah, Hossam)**
  Some commonly used functions in the machine system.
- **Options (Loai)**
  Allows the user to use keyboard keys to navigate through the menu.

GitHub Repo:


CS213
Public
Pin
Unwatch 1
Fork 0
Star 0
main
1 Branch
Tags
Go to file
t
Add file
Code
HosStdeez bom
185f2b5 · 10 hours ago
113 Commits
.vscode Updated menu display and added options to select from last week
T1 reorganized A1 repo 2 weeks ago
T2 reorganized A1 repo 2 weeks ago
T3/.idea bone us added (loa zpt el uml w make sure ana zabt el cpu) 10 hours ago
T4 bom 10 hours ago
section Added CPU skipping invalid lines 2 weeks ago
README.txt Final!! 4 days ago
asciiArt.txt Added asciiArt to menu last week
testPy.py added base text file with instructions 2 weeks ago
README
To run the program properly and view the UI please do the following
1-Preferably use Visual Studio Code (Clion may cause issues with the UI)
2-Open a new Terminal and use GitBash instead of Powershell
3-Enter the following command to automatically compile and run the program
the command-> ./run
Note:
make sure the bash terminal is in the right directory where all the files are if Not
1- enter the command-> cd
2- enter the command-> cd fullPathToDirectory
3- enter the command-> ./run
About
No description, website, or topics provided.
Readme
Activity
0 stars
1 watching
0 forks
Releases
No releases published
Create a new release
Packages
No packages published
Publish your first package
Contributors 3
Loai-Hataba Loai Hataba
Abdallah229 Abdallah Mohamed
HosStdeez Hossam Abdelaziz
Languages
C++ 99.9%
Python 0.1%
Suggested workflows
Based on your tech stack