Project Phase 3

Kurt Lebakken, Peter Toso, Mughees Warraich
CS 252

I. GitHub Repository

https://github.com/PeteLuther/CS252git/tree/main

II. Revision Number

Our total revision count is 16.

III. Progress Report

Peter - Worked on the runnable file feature. Implemented a new demonstration file to take an input from the class importation rather than from the “system.in”. Worked on appending and extracting input from the text in order to style a terminal-like GUI feature.

Kurt - Worked on the observable interface in the packages directory to restructure the VM252Observer as an interface rather than a class. Implemented the new interface on the accumulator and program counter in order to produce a working model-view-controller that constructs a J-panel. Finally made headway on fitting the provided memory demo to the model-view-controller schema. There are more moving parts to this section of code but the work that is complete on the accumulator and program counter is a proof-of-concept for the design of the memory output.

Mughees - Researched on different options other than JPane to make the accumulator area function properly with resizing. Worked on the header of the GUI to resize and all our buttons in the header to function accordingly. Worked on the placement of the buttons and their responsiveness. Keep running into some issues with the resizing of the program state so will keep searching for the best solution for that.

IV. Working Features

As of now, we have a running application with all of the displayed features that we hope to implement. We are able to input a file and run it, although it does not display the correct output information. We have an appending text area as well. Furthermore, the GUI is now resizable and does not minimize all elements at once in order to look better at smaller window sizes. Lastly the program counter, and accumulator are displayed in real time, and can be updated by entering in input into the text areas. The input is correctly bounded according to the architecture specifications.

V. Remaining Features

Some of the remaining features are a complete runnable file input. In order to have a file selector box, we need to have a working file runner. Until then, this box is the last priority for the runnable feature of the program. In order to set the memory, we also have to be able to communicate with the runnable file program. This implementation is close to workable, but still has a few remaining problems to address.

VI. Technical/Organizational Problems

For the file running feature specifically, the problems are coming through file importation and input control. Working with text area appendation and user response has become a much more difficult task than we first assumed. We are finding trouble in being able to access the runner implementation apart from the file itself. We are also accessing one of the errors that is caught in the VMStepper file as an "I/O Exception". The last problem is being able to extract input from the text area without having the user input something before.

VII. Log

Peter:

Friday, November 10th : 9:00AM - 10:00AM

Monday, November 13th : 11:00AM - 1:00PM

Tuesday, November 14th : 5:00PM - 11:00PM

Kurt:

Thursday, November 2nd : 9:00PM - 10:00PM

Saturday, November 4, :12:00PM - 1:40PM

Sunday, November 5, 11:20 AM - 12:00 PM

Sunday, November 5, 1:10 PM - 2:30 PM

Monday, November 6th : 8:30PM - 10:00PM

Sunday, November 12, 2:00pm - 2:45pm

Tuesday, November 14, 9:30AM-11:AM

Tuesday, November 14, 12:30PM-2:00PM

Tuesday, November 14, 10:00PM - 11:00PM

Mughees:

Thursday, November 10th : 5:00PM - 9:00PM

Saturday, November 11th : 10:00 PM - 12:00 AM

Sunday, November 13th : 8:00 PM - 9:30 PM

Monday, November 14th : 8:30PM - 10:00PM