

Instructions

FINAL PROJECT
VIRUS SPREAD SIMULATOR

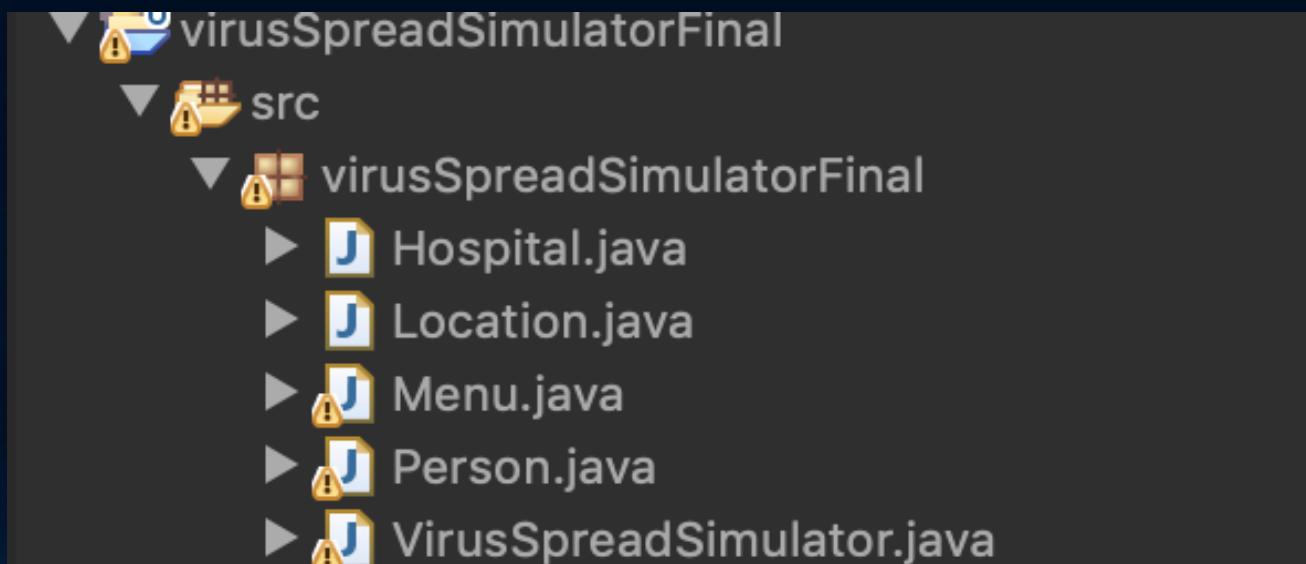
--HUANDONG CHANG, MINGYANG FAN, JUN SEOK CHOI

Run Code

USING ECLIPSE

Step 1

- Download the five java source files and include them in a package called virusSpreadSimulatorFinal (you can change this to any name). After doing so, you should get something like this in your Package Explorer,

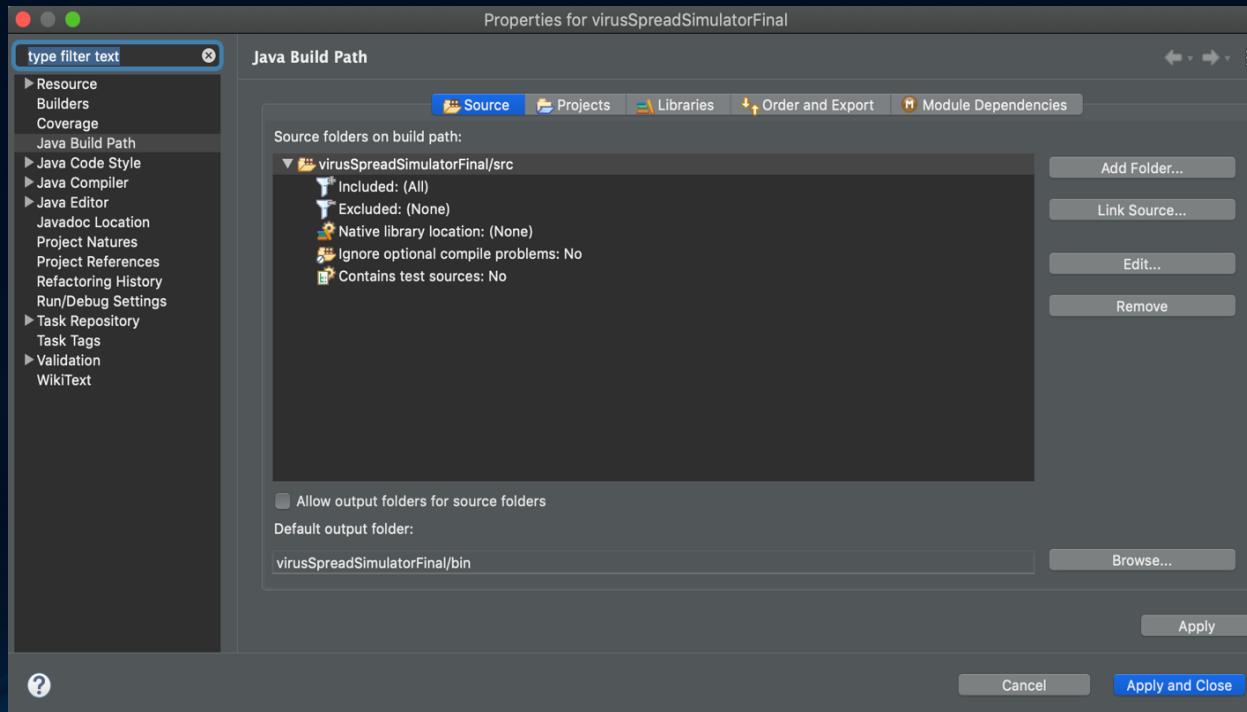


Step 2

- Download the two external jar files from Github.
 - <https://github.com/HuandongChang/COVID-19Simulator/blob/master/src/xchart-3.6.2.jar>
 - <https://github.com/HuandongChang/COVID-19Simulator/blob/master/src/xchart-demo-3.6.2.jar>

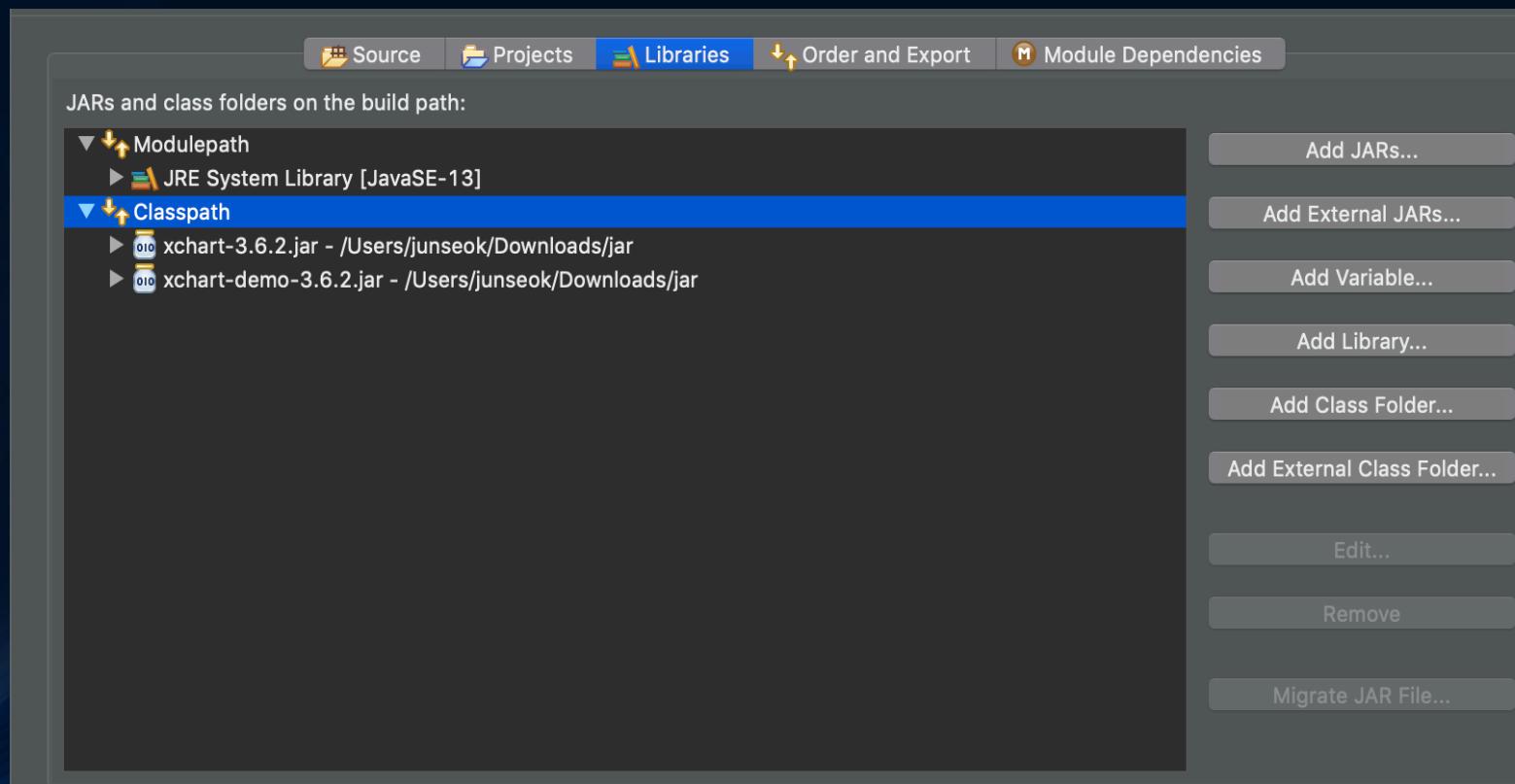
Step 3

- Next, right click on the VirusSpreadSimulator.java file on the Package Explorer and then go to Build Path->Configure Build Path. You should get the following pop-up window,



Step 4

- Click on Libraries and you should get the following,



Step 5, 6, 7

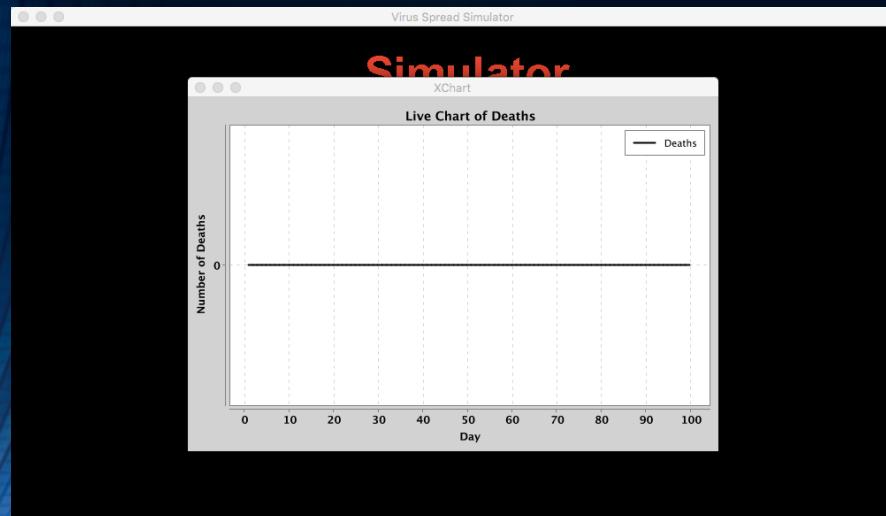
- 5. Select the Classpath as shown in the picture above, and then click on Add External JARs... on the side bar.
- 6. Add the two jar files you have downloaded and then press Apply and Close.
- 7. Your program should now be ready to run.

Clarification

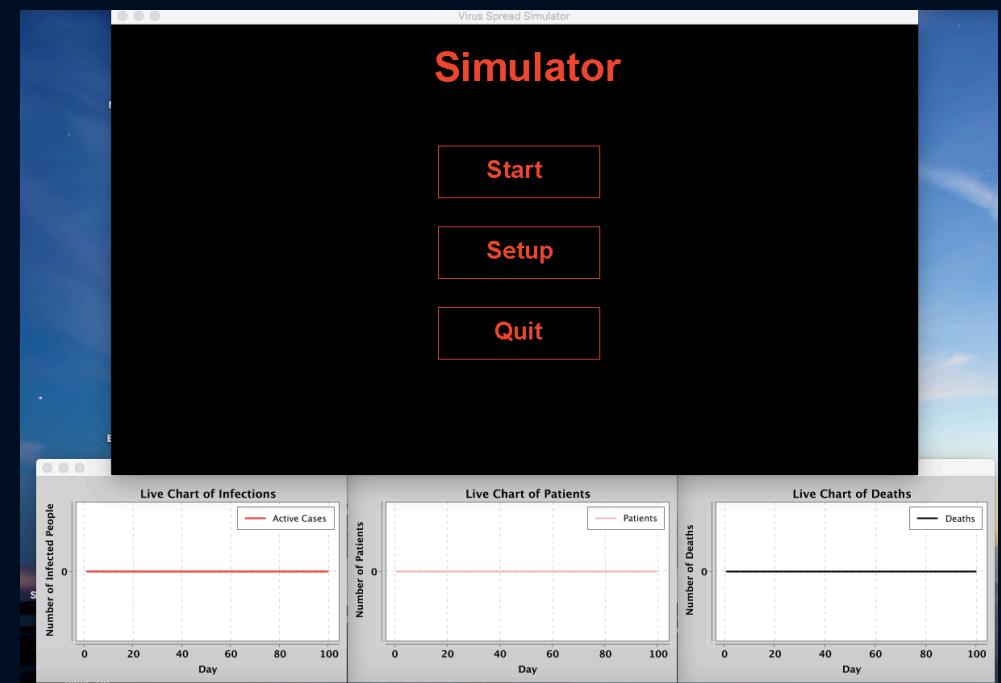
Still need to improve!

- When you click “Run” in Eclipse, several windows will pop up. However, as we mentioned in the “Presentation Slides”, we still need to improve the location of these windows. We’re sorry for this inconvenience. Please manually move the position of those windows for better user experience and to see the live-charts.

Original



Manually



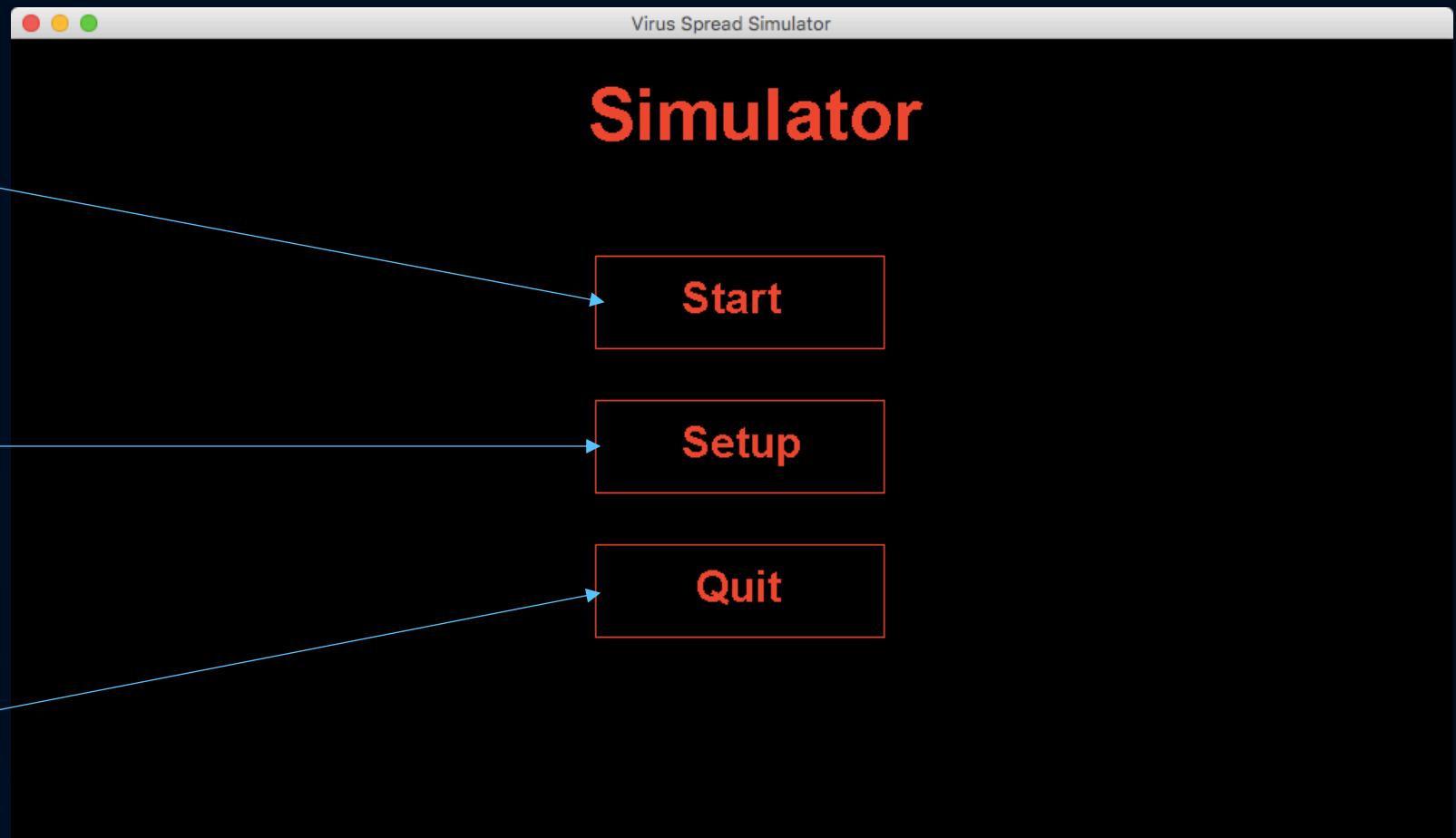
Menu Operations

Entry Menu

Start the program directly with default value

Setup and run

Quit the program

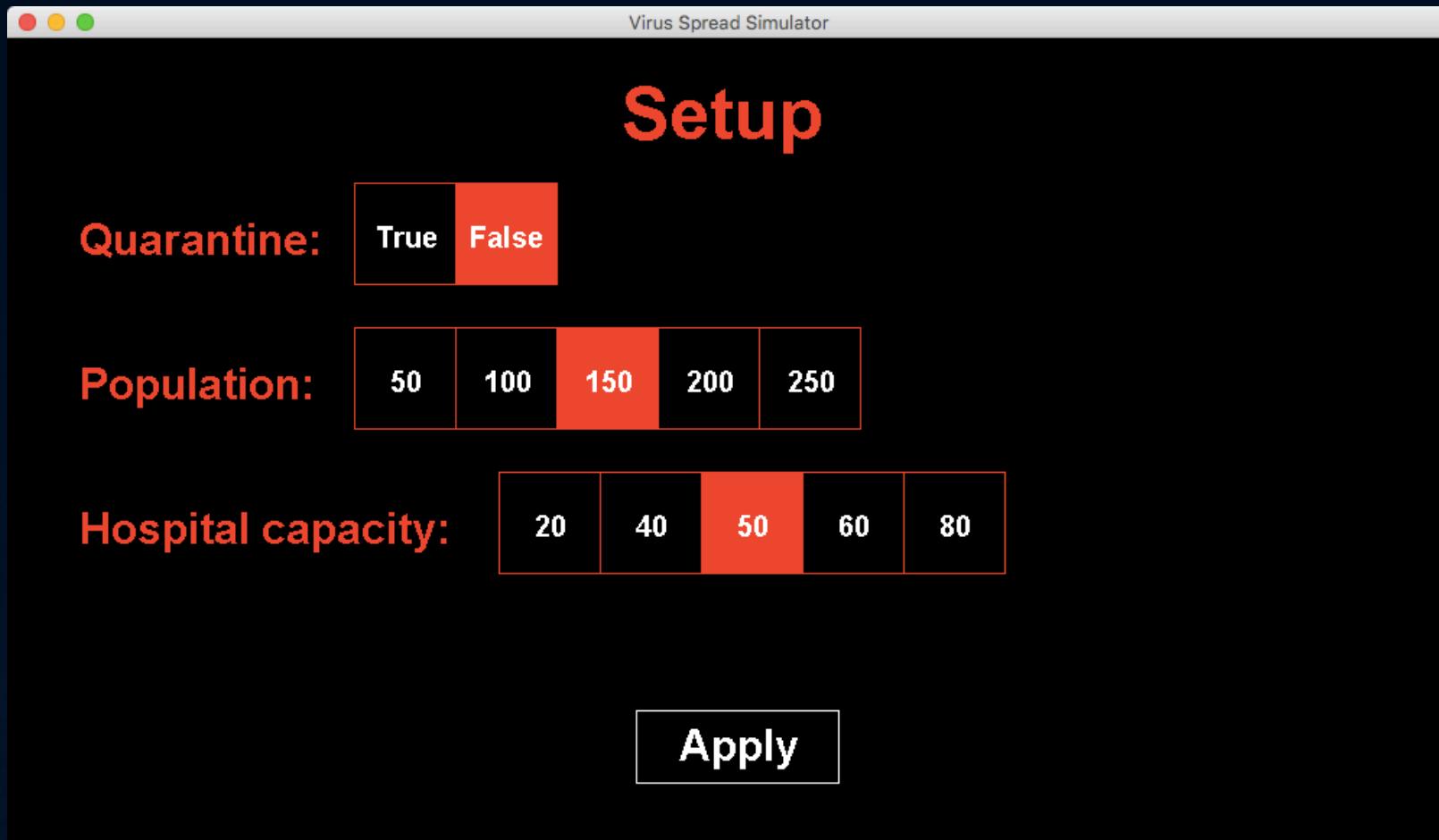


Keyboard Operations

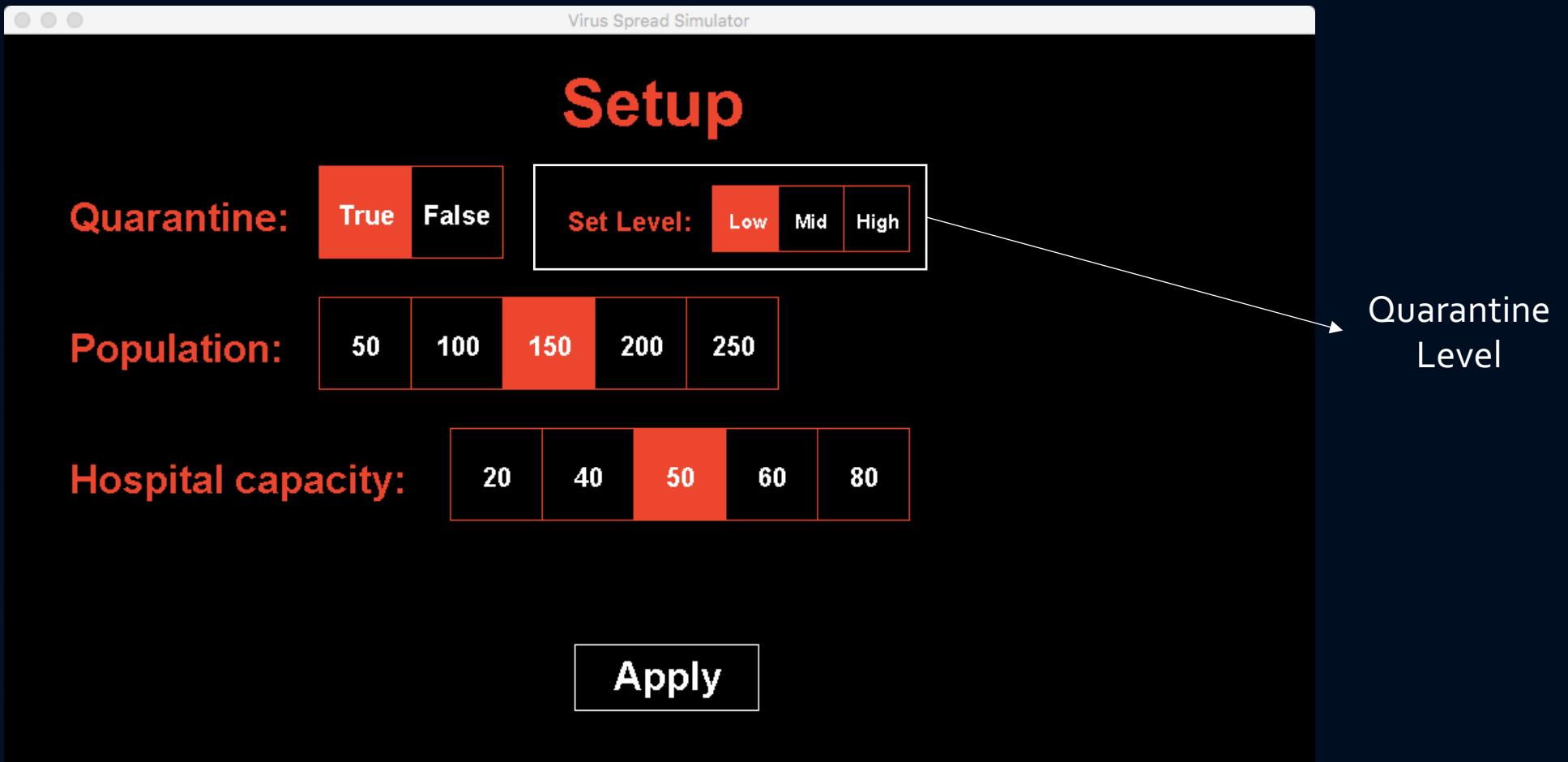
- When the simulator is running, several keyboard operations are available:
 - Press R: Refresh the simulator to the default setup
 - Press M: Go to the Setup Panel for “in-program” setup
 - Press Q: Set the quarantine directly (without going to the setup panel)

In-program Setup

- The "in-program" setup panel (if you press M when the program is running) allows the user to change the following value:
 - Quarantine Mode
 - Population
 - Hospital Capacity



Note: The red boxes represent the current state. Click on other boxes to change the setup. Click "Apply" to apply the updated value for the simulator.



- Note 1: If the user switches the quarantine mode to true, another choice box will pop-up, allowing the user to choose the quarantine level .
- Note 2: Click the apply button to apply all the changes you made

- For more detailed menu operation, please go to
- <https://github.com/HuandongChang/COVID-19Simulator/blob/master/Menu%20Instructions.docx>