

Musical Instrument Music Sheet Generator App User Guide

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Summary:

This program takes in a master Excel sheet with five fields: SKU, MAP, List Price, Description, Stocks and a vendor sheet with updated SKU and MAP of the instruments, and output two new Excel sheets, one is the master sheet with updated SKU, MAP and List Price, and another one is the detailed master sheet with an extra column that shows if the MAP is changed.

App Java Files Summary:

- **Driver.java:** The driver class that is used to execute the program GUI and run the program
- **ReadWriteExcelFrame.java:** GUI that enables the users to interact with the program graphically. The users can select a file and where to save the output file and run the program graphically. The GUI frame also outputs the errors and notifies the users once the output files are generated successfully.
- **ReadWriteExcelFile.java:** Core function library that reads excel files, extracts data into arrays, creates Instrument objects from data, checks the input excel sheet for validity and outputs the Instrument objects into a new excel sheet.
- **Instrument.java:** Create instrument objects from each row in the input master and vendor excel sheets.

Guide:

To run the program, first go to the directory that contains all the files, for example, the directory that has all the files in my ieng6 server account is:

`/home/linux/ieng6/cs11e/cs11efj/HW7`

Once you get inside the directory, compile the program by running the Driver.java class in the directory with the Apache poi jar by typing the command:

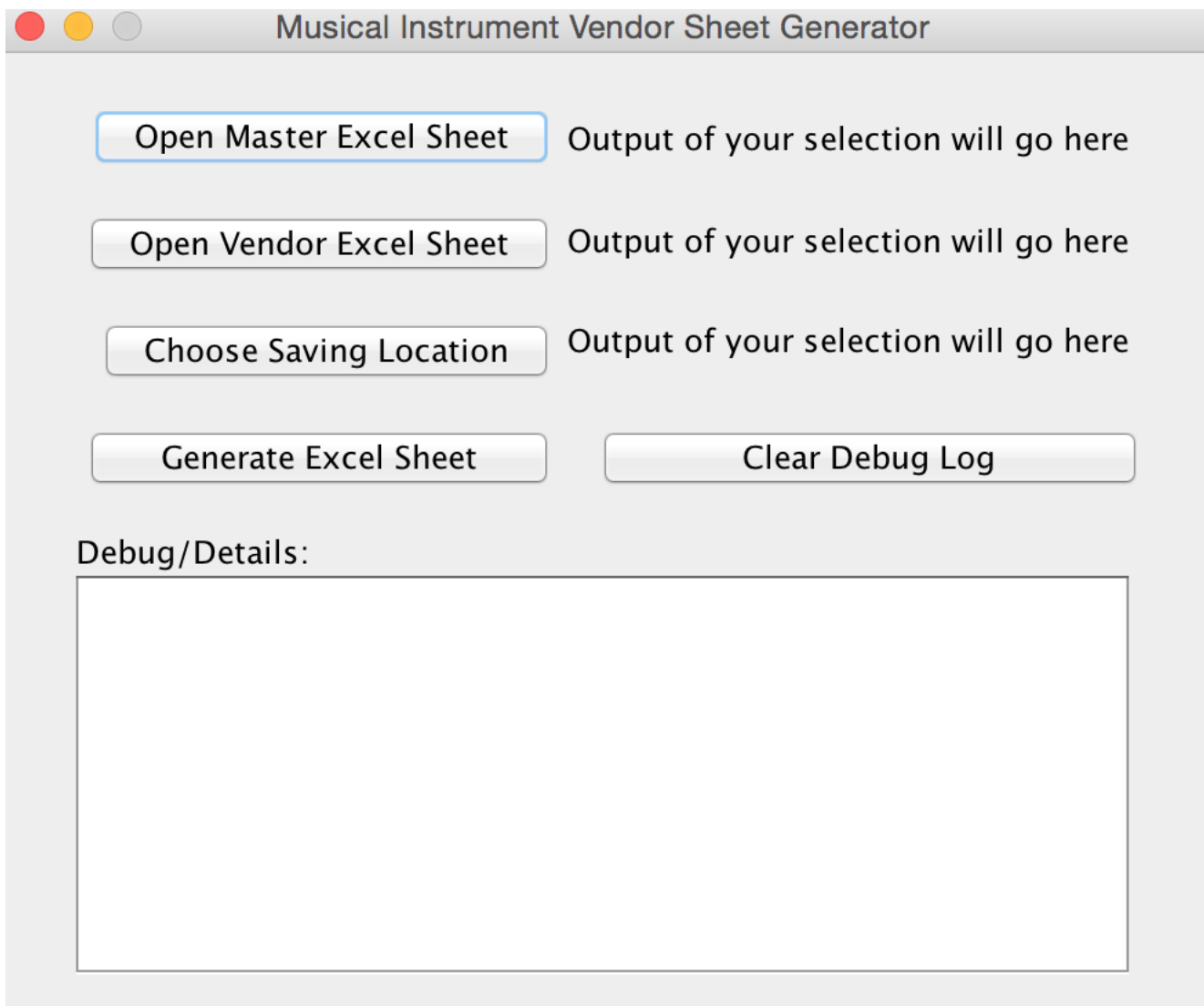
`javac -cp "/home/linux/ieng6/cs11e/public/HW7_libs/*:." Driver.java`

To run the compiled program, type in the command:

`java -cp "/home/linux/ieng6/cs11e/public/HW7_libs/*:." Driver`

Then you should see the app running, this is what the GUI looks like. As you can see in **Pic[1]**, there are five buttons.

- **“Open Master Excel Sheet”** button opens up the file directory and allows the users to choose the input master Excel sheet restrictedly in the format of .xlsx.
- **“Open Vendor Excel Sheet”** button opens up the file directory and allows the users to choose the input vendor Excel sheet restrictedly in the format of .xlsx.
- **“Choose Saving Location”** button opens up the file directory and allows the users to choose the directory which the output Excel sheets to be stored in.
- **“Generate Excel Sheet”** button runs the program, updates the master sheet based on the vendor sheet and outputs updated master sheet and updated detailed master sheet into the selected output directory.
- **“Clear Debug Log”** clears up the history and errors in the Debut/Details area.



Pic[1]

- **Debug/Details Area:**

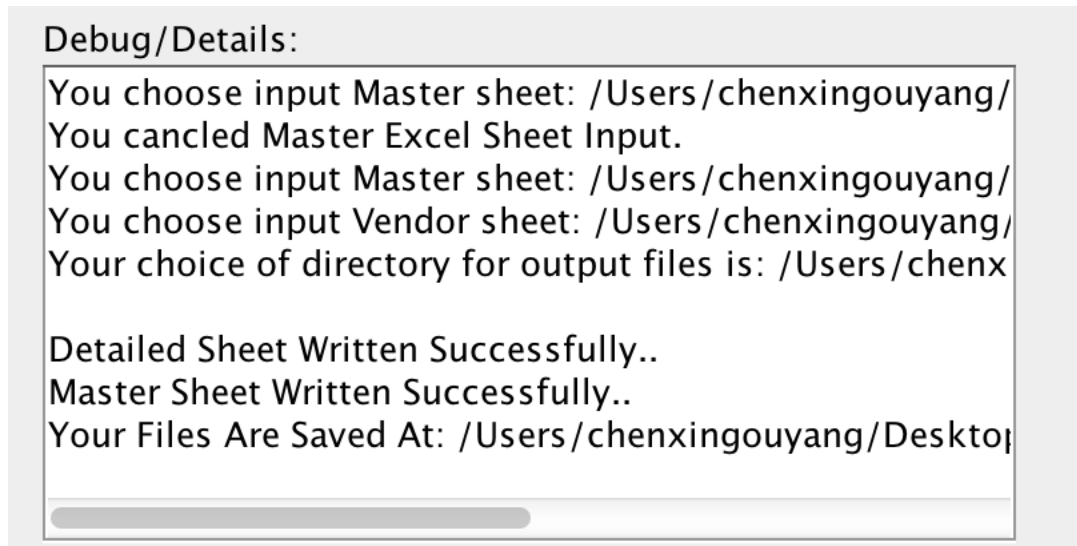
The Debug/Details area logs out the user activity and errors. For example, if I were to choose an input file from:

/Users/chenxingouyang/Desktop/cs11e/cs11efj/HW7/EXAMPLES/master1.xlsx

the activity log would log out the history, and if I were to cancel it, the

Debug/Details would show that I canceled the Master Excel Sheet Input .

If the input Excel sheets are error free and the output Excel sheets are generated successful, the Debug/Details area prints out the files saving location as shown in **Pic[2]**.



Pic[2]

Click the exit button on the top left corner to exit the program as shown in **Pic [3]**.



Pic [3]

Enjoy! ^_^