

Sheet Managing Application by Yuval Levy

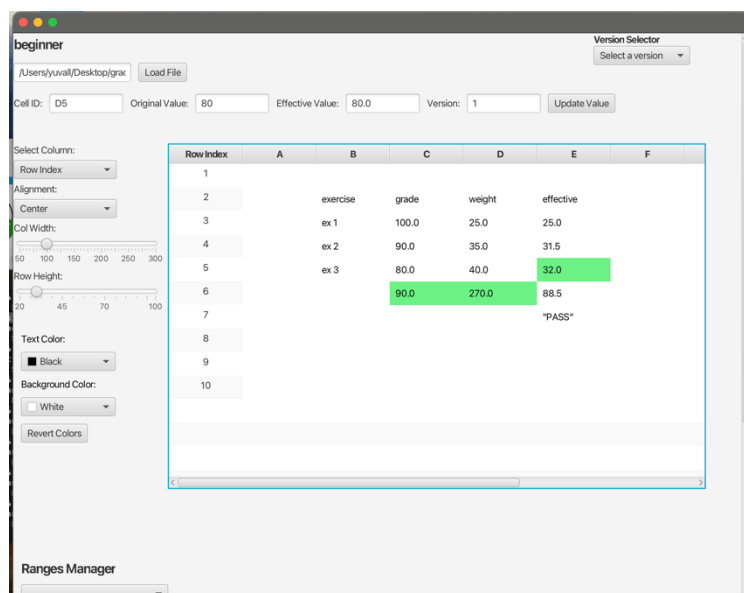
What is does?

This is a sheet managing application written in Java, using javafx for building the GUI.

It loads the initial data of the sheet from xml file and uses jaxb to load it to the application's engine, the sheet manger.

In terms of GUI features, first, when choosing a cell in the view, the GUI highlights in light-green all of the cells that are influenced by the chosen cell, and in light-blue the cells that are dependent of it, also, when choosing a range with the range dialog drop-down, the involved cells will be highlighted in yellow.

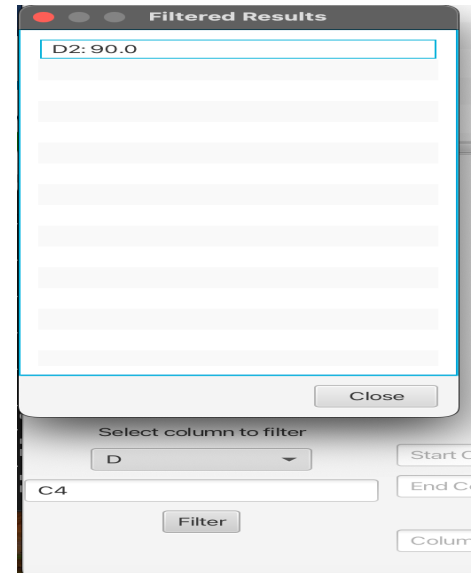
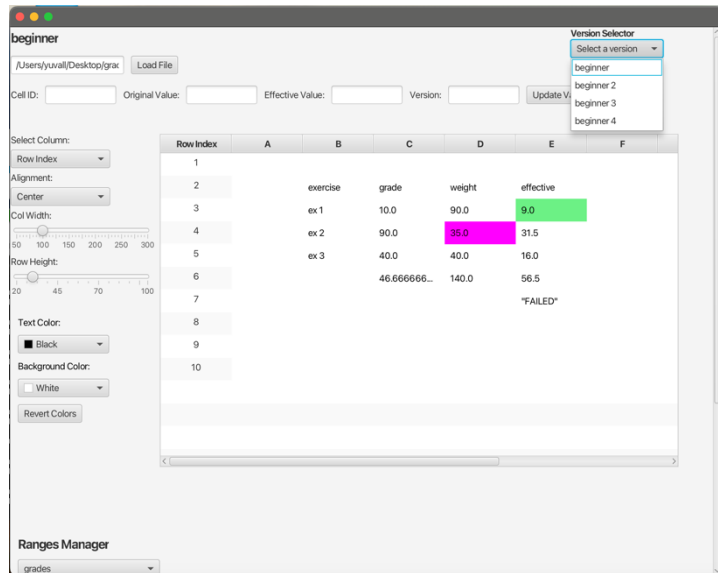
In addition, the user can resize columns and rows , align the text in each column, adjust the background and text colors of the cells and to revert it to default, black text and white background.



The cells in the sheet are defined by original values who are parsed into effective values using an expression factory pattern and can handle complex expressions in a pre-defined format such as boolean expressions, cell references, concats and actions on defined ranges.

Sheet Managing Application by Yuval Levy

After the initial load, the user is able to update cells, add and remove ranges, move between different versions of the sheet, there is also an option to filter columns according to specific cells, this option only supports numeric values and a temporary view will be shown as a pop-up window.



When inserting invalid input or performing an illegal action, such as inserting an invalid file path or deleting a range which is in use of one of the cells, a pop-up alert will be shown and the operation will fail.

How to run?

1. Clone the GitHub [repository](#).
2. On mac: run the: `./SheetCell-mac.sh` command.
3. On windows, run: `SheetCell-windows.bat`
4. You can use the `grades.xml` file as an example.