

# Individual Research - How does the JavaFX Accordion Select List work?

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## Activity Kind

Individual research

## Purpose

Interesting problems usually have more than one potential solution. The difference between a coder and a software engineer is the extent to which decisions about what to do and how to do it is based on evidence and data. This research is intended to give you another useful tool in your tool box.

## Pre-requisite

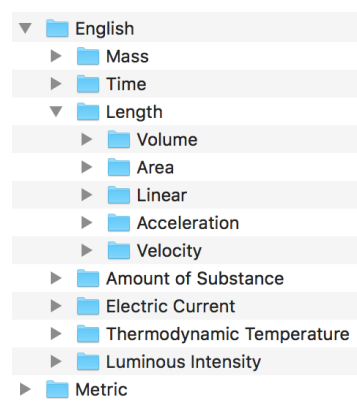
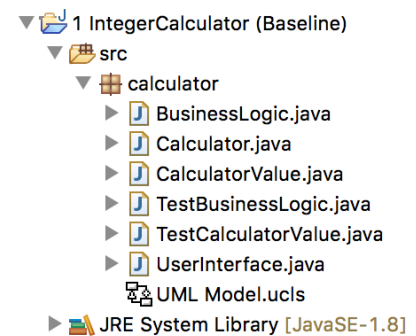
Students must be familiar with the dynamic select list from JavaFX.

## Tasking

Download and decompress the SelectListExercise - JavaFX - Accordion Buttons archive, add it to the folder of Eclipse projects, establish it as a new project, compile it, run it, and verify that it works.

How is this user select list different from your previous select list? This accordion view is similar to the package explorer in Eclipse (see the example on the right).

Is it possible to support items within groups within groups using Accordion facility as Eclipse does with folders inside of folders? If yes, this would be perfect for our calculator. If no, is there some other User Interface structure in Java that would replicate what Eclipse does? The answer to this question is the point of this research.



Consider this sample. This may be a good way to address the Units issue in the user interface. (Assume that within the Linear folder the options are inch, foot, yard, and mile.) Can you change the accordion code to demonstrate this sample? If not, can you find another user interface widget that replicates this kind of select-list item? (It might have to start with a button push that pops up a window that contains this tree structure and the leaves might be buttons that set the select value and closes the pop-up window.)

If you don't like this approach, what other nested structure would you believe that your client might like better? Can you produce a mockup of that?

## Deliverable

At each step in your research process, please take notes into your ENB where you answer the questions we have asked above, you recorded what you have learned, and you have captured evidence that you can actually get Java to produce a select list that satisfies what you want to do for the client.

## Submission

Each student must produce and submit the ENB submission prior to midnight.