Managing Selections

Scenario

The desktop application StyleADVISOR draws charts that display data series associated with a mutual fund. The user can select funds by clicking on the corresponding data series in the chart. Furthermore, the user can globally set the list of funds displayed in a chart.

Task

Write a component in a language or your choice that manages the selection state (displayed/not displayed) of funds currently shown in StyleADVISOR. Internally, the funds are represented by unique string ids. The following operations need to be supported:

  1) Change the selection status for a fund

  2) Query the selection status for a fund

  3) Set the list of displayed funds

The component should provide a means for clients to receive notifications whenever the selection state of a fund changes.

Deliverables

Provide the code, supporting documentation, and anything else you deem worthwhile for the component so that it could be readily used in production code. No binaries are needed. A rationale document discussing design choices is welcome, but not required.