Cuong Ho

Web App Programming – CIS 3308

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<div align="center">Tutorial Proposal</div>

For my simple framework, I intend to implement modal image widget and filter tables widget. These two use some significant JS code, and also fits well into my web application. Perhaps I might think of more features if needed, but for now I think those 2 look good enough. My framework as of now only has a JS source file and a CSS source file. The functions provided in JS, when called, will add HTML components needed to perform the desired functionality.

The Modal Image is a widget where users can click on an image to see the picture in a pop-up window displayed on top of the current page. To do this, we need an <img> tag to store the picture we want it modal, and also we will create a <div> for the container of the modal window. Besides CSS which is needed for display, we will need JS code. To implement this functionality, I need to set 2 onClick function listeners, one for the picture (for when user clicks on it) and the other for the modal window (for when user wants to close it).

The Filter Table is essentially an input widget, similar to a search box, that passes the value it holds to the table it wants to filter and will only display table data that matches the widget's value. Because the widget is related to tables, the code implementation definitely expects consumers to provide with which table (tableId) they want to filter. While the filter box holds a value, a filter function in JS will use the value taken from the input box and compare it to all data in the table. Those data that don't match the filter value will not be displayed. To do this, add a onkeyup attribute to the filter box.

Modal Image: https://www.w3schools.com/howto/howto_css_modal_images.asp

Filter Table: https://www.w3schools.com/howto/howto_js_filter_table.asp