Scientific Experiment Browser

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Deliverable #5

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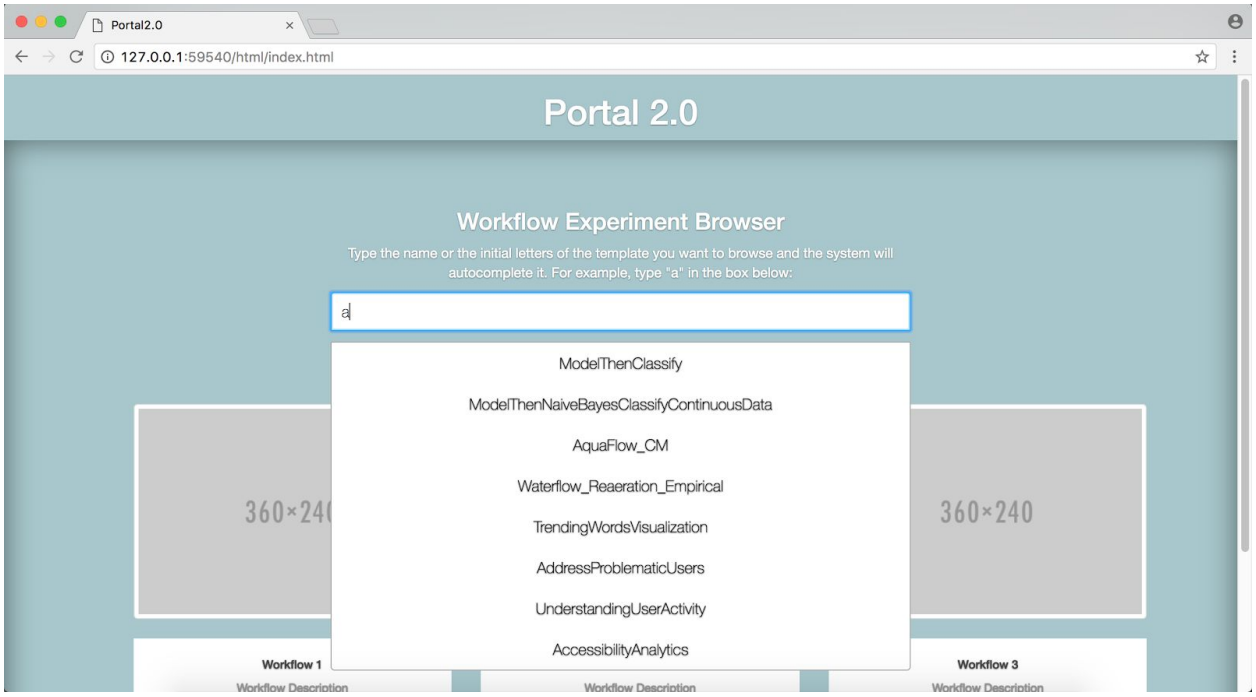
Homepage - show search bar with dynamically populated suggestions



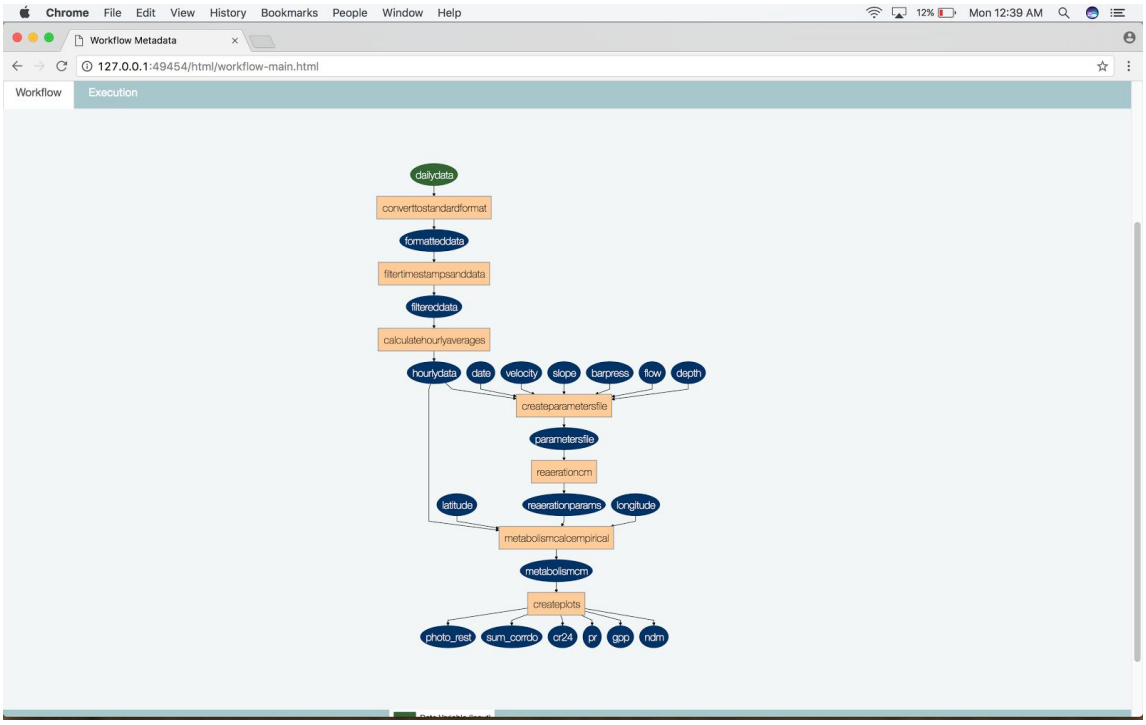
Current State:

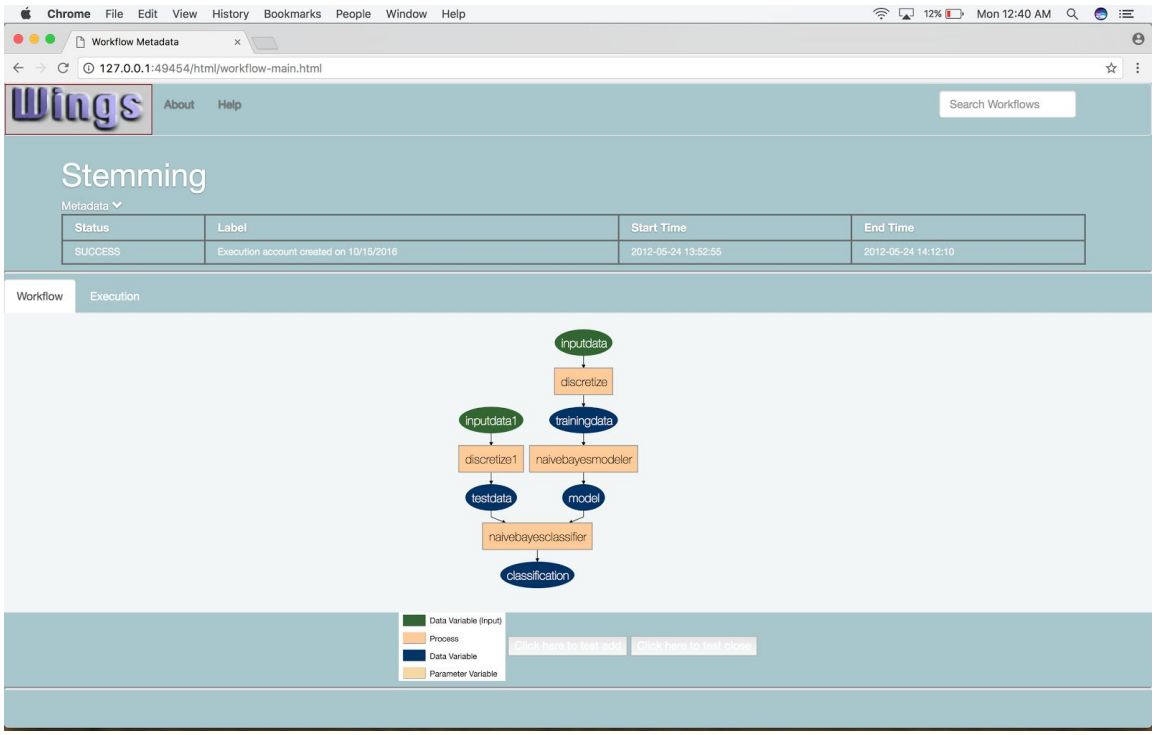
The landing page now performs an AJAX call to retrieve a list of all the workflow labels and URIs. Upon doing so, it filters the labels using regular expressions and passes these labels and corresponding URIs to the autocomplete component via a list data structure. The autocomplete now searches the entire string for any matching input, and if found, returns the suggestion to the suggestion box. Upon selecting a suggestion entry, we save the selected workflow URI and the list of all labels and corresponding URIs in the browser cache. This way, when we are redirected to the workflow main page, we can identify which workflow we need to visualize.

Goals for next deliverable:

Currently, the regular expression used to filter the workflow label is hardcoded. It removes everything following and including the “-d” expression. That, along with the query endpoint will need to be put in a separate .js file so that they can be easily identified and modified in the future. Another feature that needs polishing is the autocomplete suggestions. Currently it presents a list of all matched suggestions in no particular order. We will need to sort it somehow so that the most relevant suggestions appear at the top of the suggestion box.

Visualization Graph





Current state:

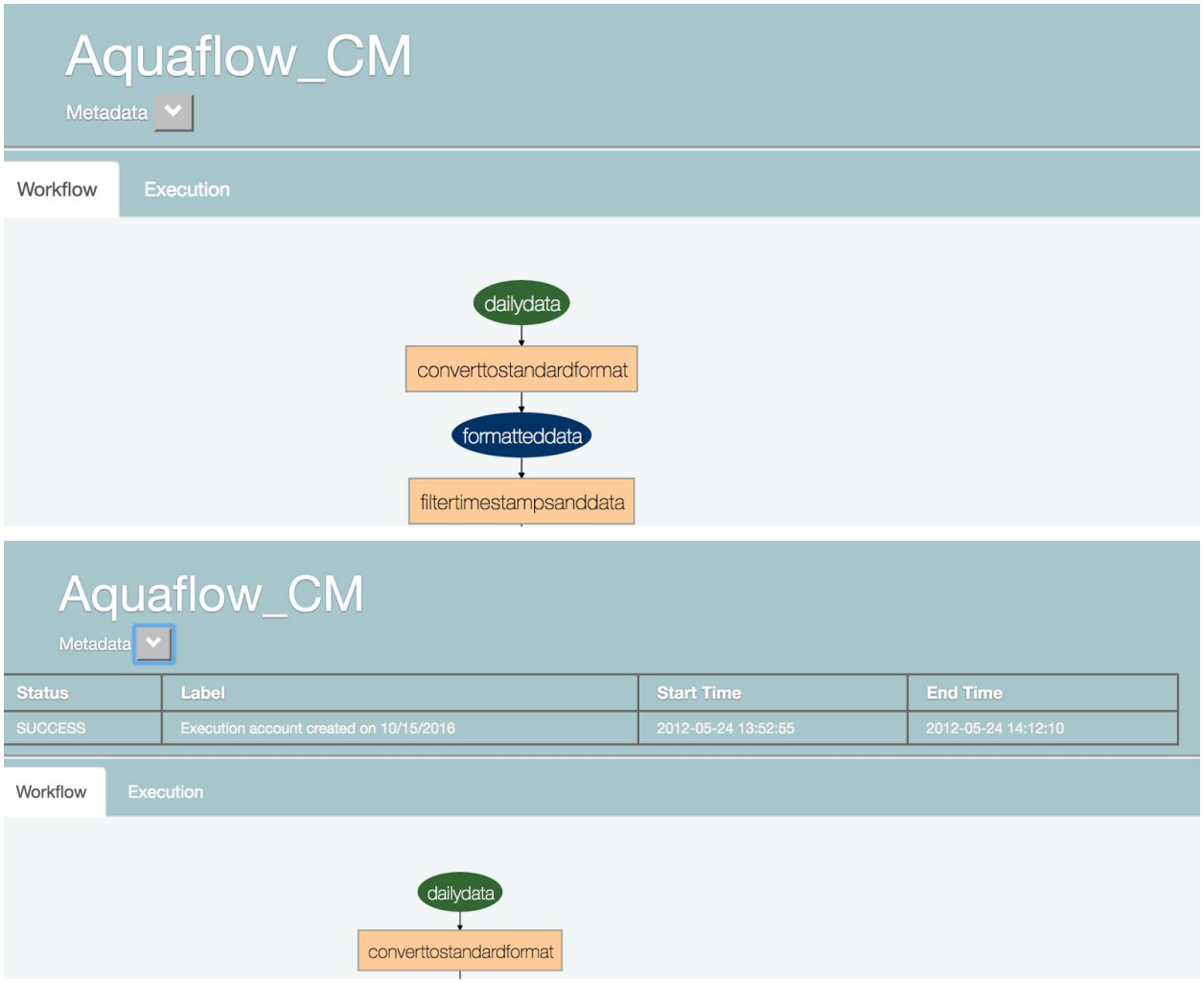
The two images above are for workflows AquaFlow_CM and ModelThenNaiveBayesClassifyContinuousData, respectively. The two diagrams are populated dynamically by performing an AJAX call to the SPARQL endpoint to retrieve the necessary workflow

processes, inputs, and outputs to be used in the visualization. Inputs that are not outputs are depicted in green, also determined via an AJAX call. The visualization also includes translate and zoom features so users can zoom in on the visualization and also click to drag the visualization within the div container on the main workflow page. On hover, each node becomes more opaque. The visualization is nearly done, there are only a few minor styling choices left to implement.

Goals for next deliverable:

The main goal is to finish the styling choices. There are also features involving the graph we wish to implement. One of these features includes being able to highlight every node that is an input and every node that is an output. To help users navigate the workflow better, we want to style the previously clicked nodes a different color so that a user can know that they've already clicked on a node to see its information at least one time already.

Workflow Main Page

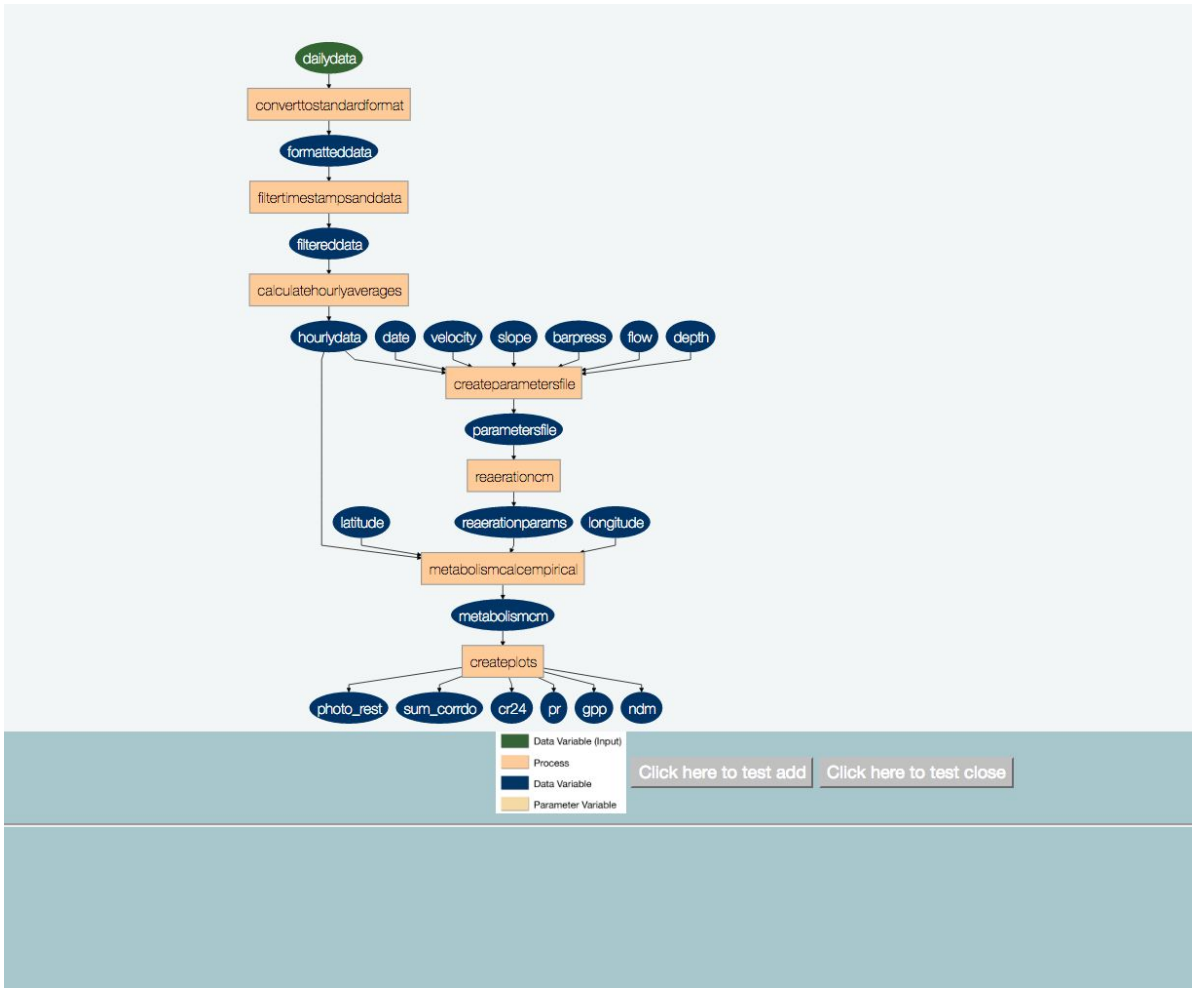


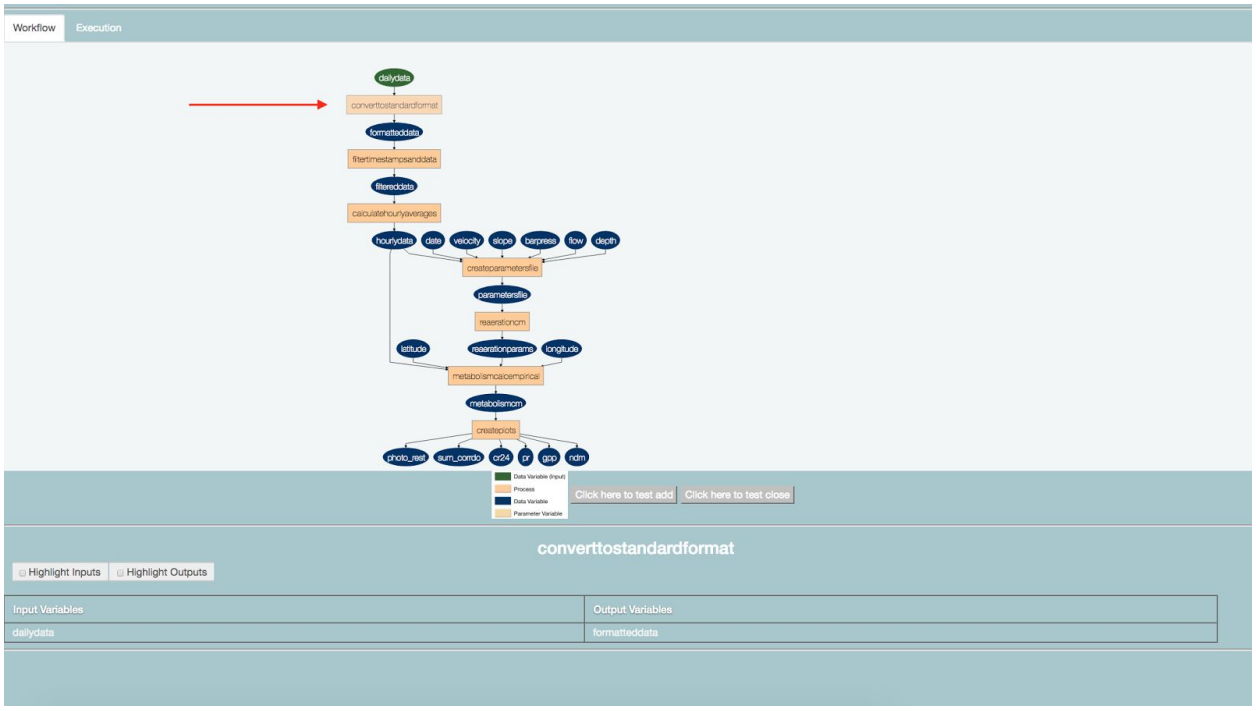
Current State:

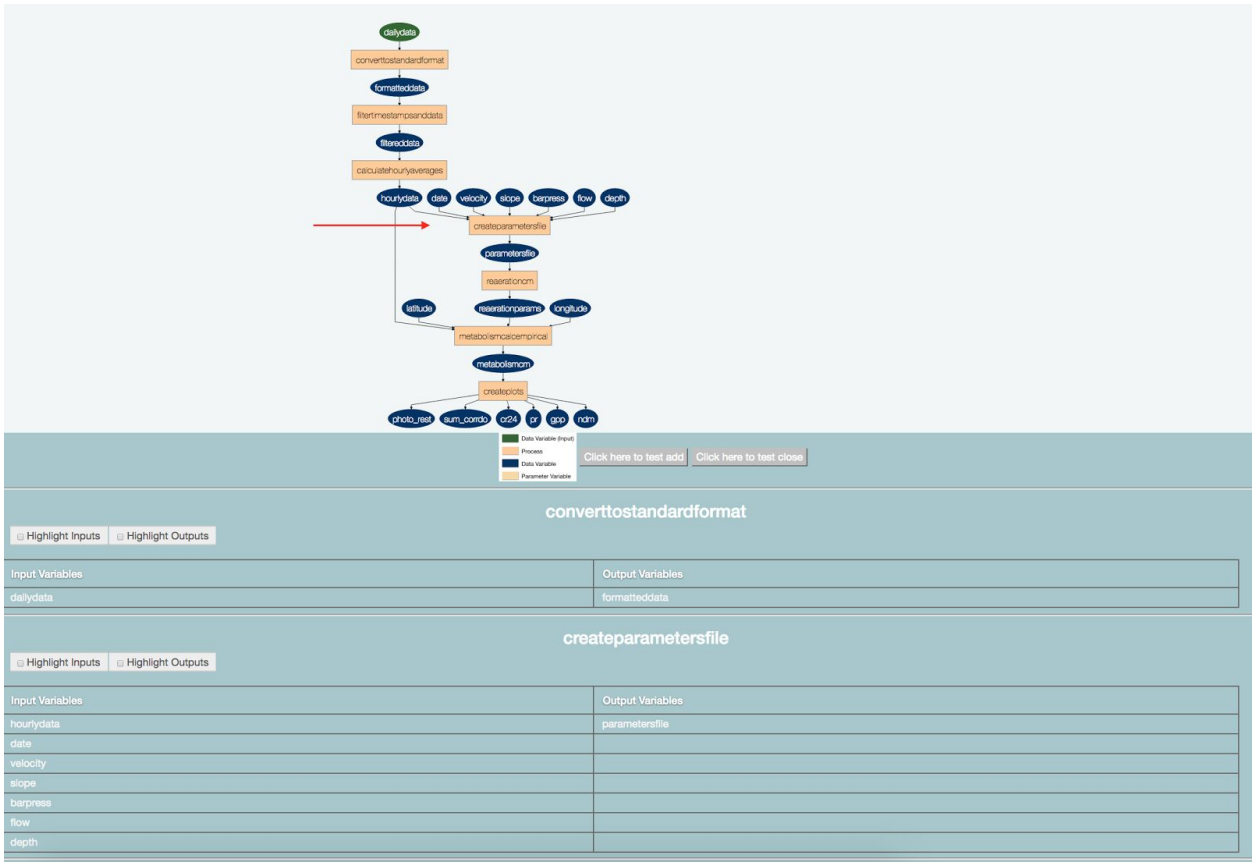
The metadata section at the top of the main workflow page is now expandable. Upon loading the page this section of information is collapsed, and clicking on the down arrow next to the metadata title will expand or collapse the section of information.

Goals for next deliverable:

Once the executions tab is implemented, this section will be moved to only appear when that tab is selected. The data is to be dynamically populated according to the selected execution from that workflow.


dailydata
converttostandardformat
formatteddata
filtertimestampsanddata
filtereddata
calculatehourlyaverages
hourlydata
date
velocity
slope
barpress
flow
depth
createparametersfile
parametersfile
reaerationcm
latitude
reaerationparams
longitude
metabolismcalcempirical
metabolismcm
createplots
photo_rest
sum_corrdo
cr24
pr
gpp
ndm
Data Variable (Input)
Process
Data Variable
Parameter Variable
Click here to test add
Click here to test close


Workflow
Execution
converttostandardformat
Highlight Inputs
Highlight Outputs
Input Variables
Output Variables
dailydata
formatteddata



Current State:

Clicking on any of the yellow nodes in a visualization will add an additional information section to the bottom of the page. The section includes the name of the process that was clicked on, and a list of the process input and output variable names. This data is dynamically populated with the correct variable names which can also be seen in the visualization.

Goals for next deliverable:

Clean up the formatting of the expanded information sections to a neater format and better styling. Additionally, in conjunction with the visualization, the checkboxes for highlighting input and output variables will be implemented to better identify the process's variables in the visualization. Additionally, expanding and collapsing the process information sections is to be added in a style similar to the metadata section.