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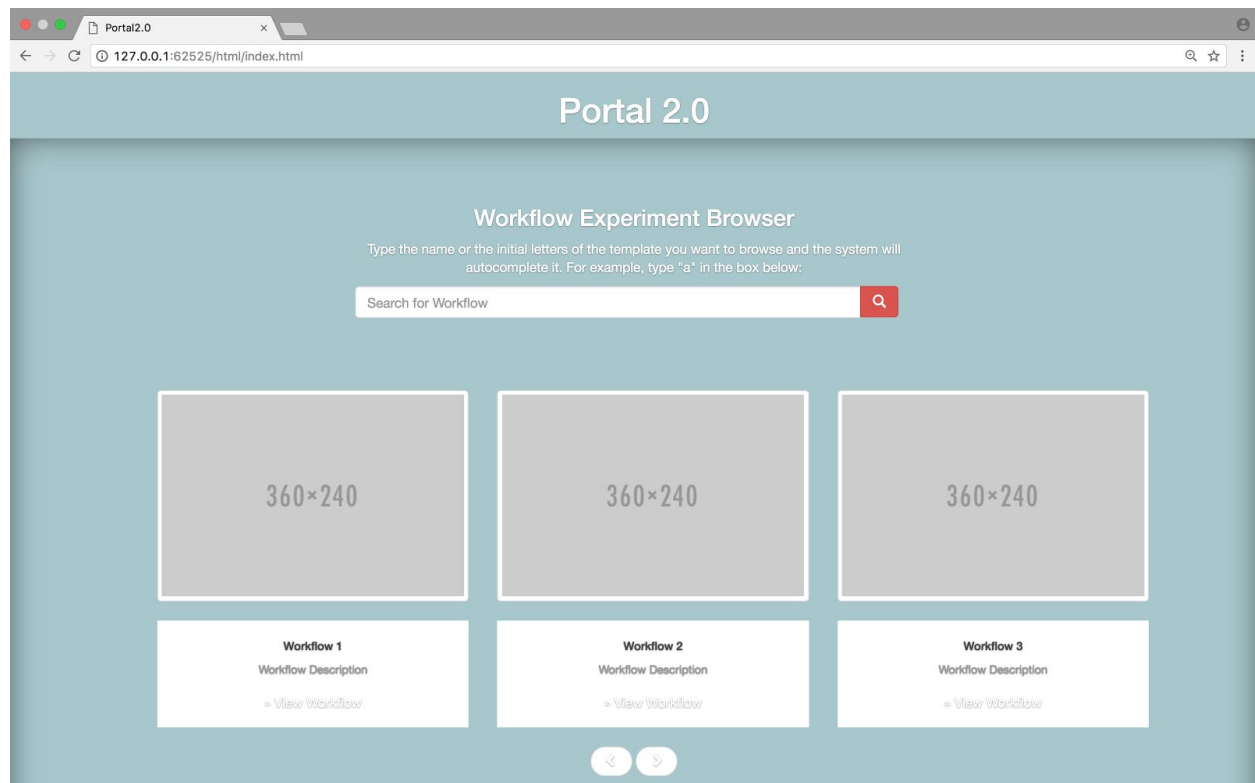**Deliverable 3**

Website Screenshots - Layout Progress

*Home Page*



Current State:

This is the current landing page of our project. As of now, the main features of this page are the search bar and carousel. The search bar currently has no functionality so we are unable to get to a certain workflow page. We included a carousel that would show workflows based on some criteria (most recently viewed, most recently executed, most viewed). This component is still up for debate so we may end up removing it by the final deliverable. Another issue with this component is the image placeholder. If we do end up including an image, how would we obtain the image from the workflow visualization? Also, when meeting with Daniel, he pointed out that there may not be a description for every workflow so we may end up removing that information from the info box or replacing it with some other information about the workflow (something like date most recently executed).

Goals for next deliverable:

For the next deliverable, we want to implement the autofill functionality of the search bar. This way, it makes it easier for users to navigate to their desired workflow. Things we have to think about are the scalability of the search bar. For instance, if we had 5000 workflows, what would be the optimal of loading all the workflow labels into the search bar data structure? Some topics up for discussion are other sitemap links. We were thinking about an "About Us" and "Help" page that could be useful for new users. We would end up creating separate URI's for these pages and linking them on both the landing page and workflow main page. Some other pages that could be useful are a "View all Workflows" page and an "Advanced Search" page, although these are all reach goals.
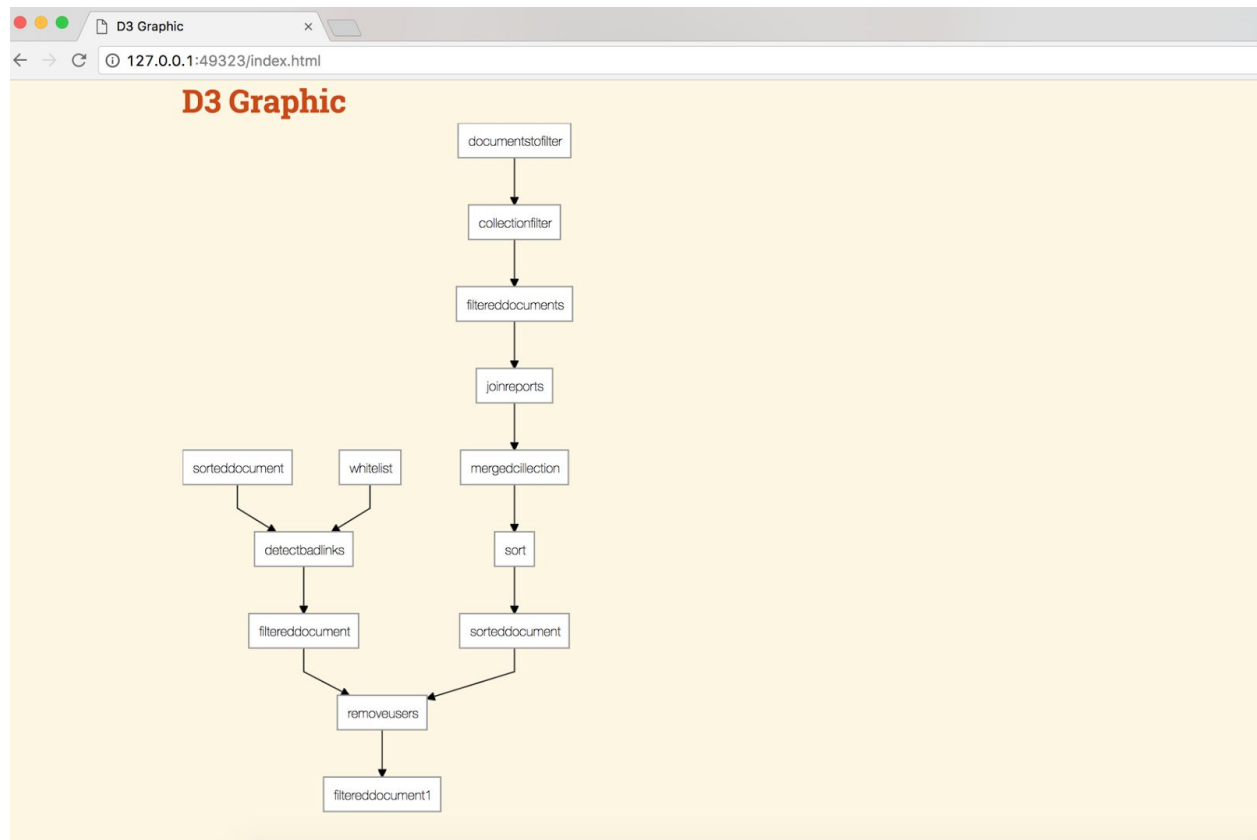
*Workflow Main Page (with placeholder for visualization)*



Current State:

The workflow main page has the general layout set for what will be displayed for every workflow's visualization page. The top half of the webpage includes information which will be present for every page, with the exception of the specific data included in the metadata section. There is currently an open space in the placeholder section where the graph visualization will be added in once it is completed. As of right now, data is hard-coded in for the purpose of making the layout, but will be dynamically populated based on the workflow being viewed. The expanded information for a process on the bottom of the page has the general layout set, but will be dynamically added to the screen once the user interacts with the graph visualization. The layout will also be repeated for multiple node interactions. Similar to the metadata section, the data will be correctly populated based on the current workflow.

Goals for next deliverable:

Once the graph visualization is finished, it will be added to the center portion of the page. We are also going to style the page so that it matches the home page. We are also going to start working on loading in data from a static data source to populate fields such as the workflow name, metadata, and graph node information. Features to be added are the graph legend which is a small collapsible window will information about the graph nodes (will be set once the styling of the graph is completed), as well as the executions tab (layout is almost the same as the workflow tab, but a drop down menu for the user to select a specific execution will be added). Search bar functionality from the homepage will also be added once complete. In addition to the styling of the page, the main goal is to also add Javascript to expand, collapse, and add information to the page where necessary (expand and collapse metadata; expand, collapse, close, and add graph node information).

*Visualization Graph (to be incorporated into Workflow Main Page)*



Current State:

The visualization graph successfully depicts simple workflow cases. With more complex cases, the graph contains a few redundancies (as depicted in the above screenshot). You can see that "sorteddocument" as an output from the process "sort" is also an input for the process "detectbadlinks". This should not be shown twice, and the "sorteddocument" node should only appear once, coming out of "sort" into "detectbadlinks". The structure is generally correct. The appearance of each node has not been dealt with, yet.

Goals for next deliverable:

Aside from debugging the issue of redundancies as mentioned in the previous section, a goal for the next deliverable would be to stylize the visualization so that process nodes and variable nodes can be clearly distinguished from each other. They will differ in shape and color.