Delta Network After Code Rearrangement

* Now that we’ve put our methods into shared services and now that we have separate controllers for each tab in the sidenav, let’s figure out how we’re going to integrate delta networks into our app.

# Integrating Delta Network Into App

* I think that it’s kind of silly to add another tab with the 3 existing tabs nested within it.
* What we will do in order to have delta network functionality is the following:
  + WE need to make the data tab have radio boxes: normal, tumor, delta
    - Based on the selected box, the appropriate files will be avaialbe in the dropdown. If delta is selected, then there will be 3 dropdowns shown
  + The only other thing that will change on the client side is having 3x the amount of tables in the table view: one for normal, tumor, and delta
  + Also the edge inspector will change to show more information
  + That means that the edges we will be creating on the server will have to have 3 attributes for the weight in the case that we are looking at a delta network, or we could just have a neighbor dictionary that contains 3 values. I think this is probably better since we wouldn’t have to modify the way that we parse and create edges from R.
  + The server side will have to change so that each request we send to submatrix, interaction-explorer, or path-existence-checker has a flag indicating whether we are interested in tumor, normal, or delta.
* We have to be smart about not sending redundant data from the server to the client. For example, if our edge dictionary for the delta network will contain weight, normal, and tumor fields, then the edges in the graph should only contain the bare minimum (weight) in order to display the graph. This will minimize the amount of data sent across the network and stored in the browser. In order to achieve this, we need to make a small change to the edge inspector that will make it use the edge dictionary instead of the cy object.