Web App To Do For Weekend of Jun 3-5

# Graph Layouts and Styling

* We should probably add the concentric layout to the neighbor explorer
* We’ll have to see if it makes sense to do so though since right now it is built specifically for showing first and second neighbours.

# R Scripts and Data Retrieval

* Need to see if it is worth it to change the data we are returning from R scripts in an attempt to make things easier to style. For example, creating the random layout for the neighbor-genreal method was a tough since we’re always adding only one source node manually to the graph, and the rest of the source nodes are sort of re-discovered by the script. IT might be useful to instead return objects from R that have certain properties such as which panel a gene should belong to and whether or not a gene is a source node
* It could also be worth it to go from using lists to using data frames. The reason is that jsonlite tends to do the following:

> y <- list(weight = 5, parent = "epi")

> toJSON(y)

{"weight":[5],"parent":["epi"]}

* Notice how the values are for some reason wrapped in arrays. When working with data frames, this phenomnenon no longer occurs

> x = data.frame(weight = 5, parent = "epi")

> toJSON(x)

[{"weight":5,"parent":"epi"}]

* So now the entire objects is encompassed in an array as opposed to its properties. This will make things cleaner on the server side code when it comes to indexing, though not by much.

# Additional Features

* Need to create a script and caching mechanism to be able to have the pre processing stats such as significant interactions and self loops for the entire network like Ventaka suggested

# Front End Angular Changes

* Need to create a service that will initialize all controllers with the variables and methods that they have in common

# Front End Layout and Styling

* We need to make the interface more user friendly by perhaps coloring the buttons, repositioning some elements, adding the legend back in, etc.