Technical Report Phase 3

Visualizations:
We gathered information about entertainment event frequency and plotted a bar chart of the frequencies of various types of events such as travel/outdoors, food/drink, etc. This information displays what kinds and the distribution of types of entertainment that can be found on our site. We also put together a map and plotted the distribution of nursing homes in Texas to give customers an idea of where major hotspots are located as well as areas that are underserved. Finally, we produced a bubble chart of the most frequent locations of hospitals. This gives customers insight into the most hospital-dense regions of Texas.

Developer Group Visualizations:
Utilizing the developer group's RESTful API, we produced a pie chart of the distribution of conditions across age groups. This tells us the age groups that are most prone to mental health conditions. Additionally, we ping their API to obtain information about treatment type in order to make a bar chart of this distribution. This information tells the customer how conditions are generally treated according to the data on the site. Finally, we produced a scatter plot of the age range acceptance to give the customer an idea of what range of ages are accepted in each county of Texas.

Refactoring:
Scrubbing through our repository, we identified several points of concern in terms of code. We refactored some JS components in the Entertainment page to allow for more flexible future installments. If we need to add more information to each instance, we can simply add code to a single place rather than multiple places in the file. Additionally, we simplified the addition of new models/pages to the navbar, such that now, we only need to add the linkage to the corresponding JS file in the SubNavBar div. We modified texts and fonts for critiques to make the experience more intuitive. We also separated the self-critiques and the providers critiques into separate pages to make it easier to understand.

Challenges:
We faced issues with pinging data from the providers API, as their data was not labeled in the most intuitive way, so we had to work around this inconsistency by providing our own aliases in the code. Additionally, we had to add another filter option in one of our model pages, as it did not work at the last checkpoint.