

Feedback:

The team that we made plugins for, Team 12, responded quickly to our questions on Piazza. However, there was one issue that they didn't know how to fix which occurred when one of us was attempting to pass a file created from microphone input into the framework. The .wav file made wouldn't be added to library unless the framework was run again. They were still extremely helpful when asking about certain implementation details, such as clarifying what values the buckets in MusicLoader actually corresponded to. They also helped suggest certain data plugins since there are practically no free API's for downloading music besides SoundCloud.

Experience:

When we were first discussing domain, we initially only thought of the domain of events as performances by artists or sports games. There wasn't anything interesting for our framework to handle because it only had a time, location, and place. However, we thought that our framework should be able to predict something about the next concert by Kendrick Lamar based on his previous concerts or the next basketball game by the Warriors. By adding keywords to our domain, we can see what is more likely to occur based on previous events. We were able to think of many more different visualizations such as heat maps, color-coding, and other frequency-based plugins. The framework expanded more by adding an optional priority and quantity measurement for more advanced calculations such as optimal route-finding and density calculations. It can track popularity of instagram users as they travel and calculate distances traveled.

Our group discovered that a simple idea could expand to a widely extensible framework. The number of data plugins we could think of, increased as we worked on our framework. It taught us the extensibility and code reuse offered by frameworks in practice. Secondly, writing plugins for another team was an interesting experience. Using just javadoc code and a couple of lines of code we were able to view a visualizer of data sources of our choosing. The data plugins allowed the framework to be extremely powerful, as the customization allows for the processing of virtually any sound format. Working on our own and someone else's framework was a rewarding process, which we are glad we did.