Experience report - Team 24

Feedback on Technical Support
We met with bugs when working with the framework. Thus we created two Github issues on the public repository. However, there seems to be neither reply nor improvement.

We found the documentation of the framework clear and concise. This makes it easy to understand their functionality and to create new plugins. We also followed the support thread on Piazza. Most followup questions are about understanding the framework. Due to the clear documentation and familiarity with the domain, we didn't have similar concerns.

Discovery
The domain of the best framework that we worked on for hw5c is almost the same as the one of our framework: We both created a framework on time series data, and provide similar visualization at the end. Throughout the process, we've been inspecting the code of Team 26 and learned from their structure. We found that there is a lot that we can learn from their design:

1. Our own framework only made predictions when processing the time series while Team 26 framework processed the time series data more diversely. They provided functions of time series data including difference, sum and other operations, etc. They provide these features by additional plugins of framework, which makes them more flexible.

2. Their project structure design is very clear. Folders (e.g data structures /) are created separately for different types of classes to facilitate others to read and understand. At the same time, their design is very clear and comprehensive. The abstraction of framework and plugin plays an important role in making the framework easy to understand and in making the plugin easy to implement.

3. Since our domain and Team 26's domain is almost the same, we can simply migrate our visualization plugins. We used to worry about the methods of displaying time series data. This is because time series data can either be displayed as an individual on a line chart or as an aggregation on a pie/bar chart. Some requirements need to be met for the latter one. But looking through Team 26's design, we found that they provide a TimePoint class that facilitates the

display of aggregated data. This makes their display plugin have a good separation between the two types of display.