

## Principle of Software Construction Homework 5c Experience Report

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### Feedback on technical support:

Overall, the technical support from Team 33 is great. To be honest, the documentation related to the data plugins is not completed, especially the config files. Our team has opened two issues at Github [#1](#) and [#7](#). Both of the issues are resolved very quickly and well.

Besides the prompt answers on Github, we believe if the original sample plugins have been refactored before releasing, it will avoid a lot of hassles for plugin developers. Take the `DataPluginCSV.java` and its related `JSONConfigReader.java` as an example, from the discussion of issue #7, the `JSONConfigReader` is dedicated to parse the `DataPluginCSV` data, so the naming of the file should better be `CSVConfigReader` to resolve the confusions (Same confusions on considering `JSONConfigReader` as a `JSONPlugin` happen on Piazza also). For the `DataPluginCSV` itself, the code may need refactoring like using an external CSV parsing library and re-constructing the logic of creating `InputDataPoint`. We have only figured out the relationships between `InputData`, `InputDataPoint` and `RawFeatures` through checking the original framework source code. We really appreciate prompt response and support from the team, however some of the confusions could be avoided by refactoring and adding extra README sections. Of course, we understand the tight timeline schedule, and we appreciate the great design and flexibility of the framework.

### Discovery:

For the discovery, the domains of our own framework and the Team 33 framework are similar. We can both analyze and visualize the covid-19 related data. From multiple visualizations, the total vaccine doses have been increasing a lot and the death number decreases greatly along with the vaccination. Another finding is that although the vaccine number is about half of the american, the variability across regions is also obvious.

