

Our feedback on the framework support of Team18:

1. Overall they did a good job of providing detailed instructions on how to write plugins for their framework, as well as following up with updates of new sample plugins and technical support for questions posted on Pizza forum.
2. At first we had a little trouble gradle running the framework with all the plugins we implemented, just as other teams. The command line tool always showed a 'JSONException' of not being able to find the 'JSONObject'. But after we carefully read the readme file and their framework implementation details, we figured out the cause. Actually they specified the API key requirement in both the readme file and their core code due to privacy concerns, which is fairly understandable.
3. Some advice regarding Team18's DataPlugin interface:  
It is very simple to implement, because there is essentially one method, `getData`. The `getFilePathMessage` method effectively instructs people how to import local files to avoid mistakes. However, the `requiresFilePath` method is somewhat unnecessary. It can be replaced with a Null option for the `filePath` parameter. The argument names are inconsistent and misleading. In DataPlugin the framework, the first argument is called `filePath`, but in the sample plugin `CsvFilePlugin` the same argument is called `fileName`. We had to go through the sample plugin's implementation to realize that `fileName` is the proper name for the argument. The definition/documentation for `userParameters` is unclear. Even after implementing two DataPlugins, we're not sure what it really does because in both cases we can just return a new List of Strings.

Something interesting found as we displayed the data using Team18's framework:

By displaying and comparing the nutrients contained in bananas and apples with the same amount(weight) using one-nutrient-bar-chart, we found that: the amount of nutrients in bananas is much higher than that in apples, which is almost 7 times in calories(kcal), 5 times in fibres(g), 13 times in protein(g), 9 times in fat(g), etc. Maybe this is because apples are composed mostly of water, while bananas are quite dense in the texture.

