

For the review of Lineup's code, we decided it was necessary to review both the client-side and the database. More specifically, we had a member of the User Interface team review the angular code and a member of the client-side team review the server routes. Additionally, we had someone that has been working primarily on the in-memory model review the database utilities. We reviewed these specific components because development has been so rapid in all of them that our team was worried the style and immediate design within them might have been sacrificed for productivity.

Review of client-side:

files reviewed: **app.js, services.js, controllers.js**

The most prominent problem with these files was a fault of good high-level comments. For example, none of the files had descriptions at their top describing what their purpose was. Additionally, none of the main modules had comments describing their purpose and function either. To rectify this, two members of the client-side team went through each of the files from top to bottom adding informative comments. In app.js, only a comment at the top of the page was necessary. In services.js, we decided that it was important to describe in detail all of the parameters of the functions. Finally, in controllers.js, we added an overall comment at the top and several comments to describe some of the more complicated objects.

Noteworthy is the fact that this process revealed where we have stylistic inconsistencies in the code as well as gave all parties involved a much better understanding of how the code works (including those that wrote it in the first place). Additionally, we discovered some code that was no longer in use and/or commented out that we were able to remove to make these files cleaner.

Review of database utilities:

files reviewed: **database_utilities.py**

The main changes that we noted in this file were cosmetic details and commenting. Some specific things that were noted was that the indentation level of the file was inconsistent with other files (two spaces instead of three). Many functions could use an additional comment indicating what they were for. Some variable names would be improved by adding underscores to the variable names. Some feedback indicated that not implemented methods should be deleted. However, we want to leave these methods in place to leave space for future planned expansion.