

## Retrospective

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- **Proposed Milestone #2:** Create API Scraper, Create Database, Finalize Jupyter Notebook
- **Did we reach the Milestone?** Yes
- **Did we complete all Milestones in the Proposition?** No
- **URL to GitHub Repository:** <https://github.com/kylemh/FPL-DataVisualization>

The group was unable to properly integrate the Python [Records](#) library. We chose to move forward with our main goal of generating data visualizations by using already-collected data in this [Gist-uploaded .CSV](#). The Python Web Scraper works seamlessly, but we just hadn't been able to cleanly export the scraped data into a MySQL Database.

All-in-all, we accomplished quite a bit. Zoe handled much of the work with the Jupyter Notebook work, while Ryan and Kyle worked to create the Web Scraper and find alternative sources of data. Of course, we dabbled in various aspects of the project in a group setting.

We may could have moved forward with the web scraper by instead exporting the collected data into .CSV files, but in working on this project in another class and setting MySQL Database exportation as a requirement, the extra exportation method seemed like a waste of time.

We all agreed that our largest obstacle in completing the project was being busy with other coursework and struggling to find a time to meet. Reexamining our lofty goals in our initial proposition, we completed more than half of our milestones. We have also done *some* amount of work in every milestone excepting the Machine Learning Tool and the Flask web page.

Thank you for this experience. We look forward to finishing the project on our own!

## Deliverables

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- **Completed Items:**

- Jupyter Notebook Created
- Matplotlib Researched
- Initial Visualizations Outlined
- Preliminary Statistical Analysis Detailed
- Python Web-Scrape Program
- Draft Analysis Topics
- Sketch idea for advanced visualization
- Clean-up and finish matplotlib visualizations
- Choose d3.js visualization idea

- **In-Progress Items:**

- JSON -> MySQL Database Conversion Integration
- Utilize DB Queries for Advanced Statistical Analysis

- **Backlog Items:**

- Create Algorithmic Fantasy Football Team Tool
- Create Interactive d3.js Visualizations
- Create a Flask container on a web page to house the entirety of our final report, analysis, and algorithm tool.