

## **Criterion A: Planning**

**The Scenario:** In this scenario, **my client** is **Josh Anish**, my father. My client manages multiple AAU boy's basketball teams, and is in need of a way to easily record statistics for all of the players. After discussing with the client, we decided that I would create a website built on Google Sheets where one could quickly input basic statistics, and the program would distribute the numbers to a table that could record multiple different entries and fill in any calculations. The program also should be able to handle statistics for multiple players, as not to severely limit its use. It was also important that the program would be able to continue to store data over multiple visits to the website.

### **Rationale for Proposed Solution:**

After meeting with my client, we decided that the best way to allow for easy recording of stats would be to create a program that only required the manual input of basic numbers, that could then do any required calculations and organization itself. My client also wanted a way to track statistics over multiple games for a single player, so we decided to make the program create an output table that would show stats over multiple games, with averages at the bottom.

After talking with my teacher, we decided that creating a Google Web App based on a spreadsheet would be the best medium, since it would be easy to access through any browser, it already contained the basic structure for tables, it had a built in table separation method for players (in individual sheets), and it would be able to store information over multiple visits to the website.

### **Success Criteria:**

1. The program is a website that can be easily accessed by any internet user.
2. The program is intuitive to use and input stats into, along with outputting easily understood results.
3. The program can take basic statistics (rebounds, points) and calculate more complex information (scoring percentages, true shooting percentage, assist to turnover ratio).
4. The program can take in multiple game stats over time and synthesize them into a player total and average over the course of a season.
5. The program can keep track of multiple players' separate stats
6. The program can store player information throughout multiple visits to the website.