Midterm Report

1. Evaluation of the project progress and achievements and consistency with the requirements. Each team will evaluate the project progress based on the information available in the Agile environment to assess the progress of the project and also what has been achieved. You should at least have the following in the first section (can be written as a team and shared among team members for submission):
   * What % of the project has been completed backed by burn charts, story points or other tools?

We have used the Taiga as a tool to manage user stories and sprints for our project. So far 100% of our project, all of our sprints and tasks have been assigned by our scrum master through Taiga. We can update our progress on the user stories and tasks

* + Learning outcome for you (what you have really learned from the project so far?)

We have mainly learn how to use different frameworks such as ReactJS, Pandas, Mongodb, and Flask. We have learned how to connect all these frameworks. Moreover, we learned how to make HTTP requests and following the HTTP protocols. For some members, this project allows them to learn Python/Javascript as well.

We have also learned how to work on this project within a agile environment and using Taiga as our project management tool. We have realized that Taiga is a very useful tool and help keep the team organized. We no longer have to spend time every week to figure out which parts that still needs to be completed as there’s a backlog available for us to keep track.

* + What has been the most challenging part of the project so far?

The most challenging part of the project so far is the backend / data analysis portion of the application. All of our team members have little experience with analyzing data and using the Pandas library. As we have mentioned in the project proposal, this challenge is within expectation. So far we have collected the data and stored into Mongo database. We are now mainly focusing on figuring out which features are needed for use to find the correlation between the winning rate and players’ statistics like number of rebounds/ free throws and free throw percentage, etc.

* + How do you rate your performance in the project?

I would give our performance a B+ or A-. We are doing quite well despite our lack of experience with the frameworks that we are using. This is our first time but we are learning at a quick pace. The Data Analysis and pandas framework/library was expected to be hard but not this hard. We will try to put in some extra hours per week for the remaining of the semester as we only have about one month and a half left.

1. What would you need to change in the next part of the project to achieve your goals in the following areas (can be written as a team and shared among team members for submission)?
   * % of the project remaining

So far we have reached 40% of our project. We need to evaluate if we have enough time to develop all the features that we submitted in our initial team document. If we have enough time to develop everything we have agreed, we might be able to improve our plan and add more features into the application.

* + Time management

We only spent 10 hours per week for the project but we are doing to fine. We should spend 5 hours more every week in order to make sure we can have enough time to gain feedbacks from friends and family. This additional time will also be used for more testing and quality assurance tasks.

* + Use of agile tools

We should utilize Taiga more often. During our weekly standup, we should always refer to our sprint tasks. Members should also update their progress throughout the sprint rather than updating at the end of the sprint. Also, Taiga has a function that allows team members to report any issue or bugs needed to address. Our team should fully utilize this function as we move towards the testing phase.

* + Task definitions

We need to specify more detail requirements with subtasks so that we can evaluate our goals more accurately. We can also use more bullet points for clarification. In addition, we should put related articles and websites that can help defining our implementation so that we can use these sources to improve our application. Each task definition should also contain precise description that even people without technical experiences can understand.

* + Allocation of tasks

We can keep our current task allocations. Everyone is doing their job and we help others when we complete our task ahead of time. However, since backend can take up a lot of our time and all of the members are unfamiliar with data analysis techniques (which cause more time to be allocated for researching and learning new tools), each member should be allocated some of its task.

* + Efforts spent on tasks

For our frontend, we spent most of the time reading online documents and understanding source codes before implementing it. For our backend, we are still deciding how to implement our algorithm (for calculating player’s weight when drafted to the team). We have been reading comments, articles and going through statistics of each year NBA championship in order to find the best way to sum up all the information of each player and calculate the best value to add into user’s team score. Since we have gathered enough frontend experiences, we would only need to implement our knowledge. However, we need to spend more time on backend so that our algorithm is precise.

**Individual Midterm Report:**

1. Team efficiency and dynamics (this part is confidential and should be written individually so the comments are transparent)
2. **How do you assess your team efficiency and dynamics? Do you think there are any issues at all?**Our team is very effective. We have 1 person that works on the front end and I am working on the backend. Our 3rd member is “full stack” and helps with both ends and whenever we need help.
3. **How do you characterize your contribution to team dynamics?**I contributed a lot with the planning and ideas/use stories for this project. I am in charge of the back end development and data analysis. I am struggling and haven’t been able to contribute as much use stories despite putting in a lot of time, so I will have to put in some extra time and also have our full stack member help me more.
4. **Is there lack of participation or effort from any team members?**No.
5. **Are team members not finishing tasks on time?**No.
6. **Quality and effectiveness of team meetings?**We used to meet twice a week outside of class but only meet once a week now. Since we are just a little bit behind on our project as a group, we will probably meet more per week for the rest of the semester to catch up. Our meetings are efficient as we go over what we have done each meeting and what else we need to do. We also communicate and clear up any confusions on each other end on the development so the entire team is up to speed.
7. **How have you tried to contribute and resolve team issues if any?**We haven’t had any team issues but I do try to help with the front end if there are any techinical issues.
8. **What do you think you need to change in team dynamics to improve project progress?**As a group, we were thinking of finishing the front end of our application first and once that is done, everyone will work together on the data analysis as it is the core subject of this project and is the hardest.