MIS 6900

Sprint 2

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Team Name: Team 2
Members: 3
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- Project Goal/Summary:

User Stories	Acceptance Criteria	Size
Data Handling	Cleaning, input	Large
MVC setup	Model View Controller	Large
Frontend representation	Clean UI	Large
Algorithms	3 algo with clear data process	Extra Large
Info representation	Output on website	Medium
Graph and file update	Each run == graph update	Medium
Request and Router Setup	Clean integration	Large

- Graph: Team Velocity from Sprint to Sprint

Points scored
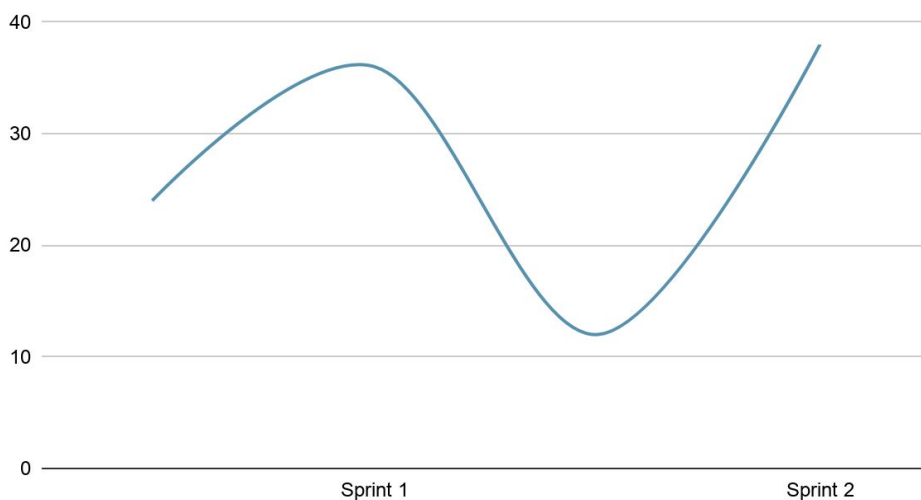
- Description for the velocity:
We observed that the output of the team increased when the deadline of the sprint was approaching and was very low just after a sprint was complete. This kind of matches with the study in classes, where we see the team output goes down periodically during the project. In some manner this is also good as it does provide a kind of break or distraction from the team when a sprint is complete, although measures can be taken to increase efficiency but it can do more harm than good.

- Description of outcome of prior Sprint:
    - Retrospective: We found during our discussions, that during the last sprint presentation we divided the project backlog in too many small pieces to avoid the backlogs and delays in the project but that actually did not help in making the project progress but lead to the a cluttered backlog with many small parts, it does eventually lead to parts benign connected with each other and created confusion among which part should be bounded together with which part.
    - Team discussion: We discussed after the Sprint 1, we came to the conclusion that not much progress was made on the project and neither the code principles of sprint methodology were followed. We did lack on dividing project backlogs and thus the progress was smaller compared to what it should have been. Also the meeting times and dates were not followed correctly and the standup meetings were not well organized. We also found that there were skill gaps in the team as per the project work.
    - Different this time: Implementing core backlog procedure, where if some work was left then it has not been continued to work on, it is left and adjusted to be worked on later on. Rules regarding the meeting methodologies would be implemented, regular meetings wil continuous progress will be made a note of and managed in that manner.

- Description of activities/roadblocks/new insights during current sprint: This whole sprint methodology based development has been an amazing experience, we learned how to divide work among team members, among product backlogs and arranging things as per the priority and the whole way sprints work is itself a unique way, wherein the teams get time to have a break and then get back to the next sprint.
During the last sprint the challenge was to understand what exactly the problem we have to address and how are we going to spread the work across various sprints and product backlogs. There were things that were planned for the sprint 1 but were not completed and have been put into another product backlog.
        We went through a lot of roadblocks for the sprint 2 compared to the last sprint. We were facing difficulty in cleaning the data and arranging it in such a way that it can be easy for the program to get it and run the algorithms on it. The roadblock for frontend was also tough, we were facing difficulty in creating the charts which can be updated in real time when there is an update in file and whenever the program is run for using the output and programs. We did plan for at least one chart to be ready, but we were not able to complete that in this sprint, and it has been shifted to another backlog, the priority will be decided when we are done with the today's presentation and submission, the future meeting will hold the work for arranging the backlogs adjusting the left work.

- Backlog: Table to represent backlog and the details regarding each sprint till now, includes parts that are completed and that needs to be completed in future sprints. Also incomplete parts which were planned but were not completed. Arranged as per priority:

Backlog ID	Description	Task	Ideal time	Points	Goal/Status
Basic HTML	Creating the basic structure on what will be placed where in html.	Create framework for website	3 days	5	Complete in Sprint 1
Basic Design	Basic design and style for the website	Design	5 days	10	Complete in Sprint 1
Router setup	Integration	Router backend integrate	5 days	20	Complete in Sprint 1
API calling	Calling api	Calling api on backend	3 days	20	Complete in Sprint 1
Store data from API call	Data storage from api called	Store data from api call to the local server	3 days	10	Complete in Sprint 1
Frontend architecture	Arranging the architecture which can be used for multiple integration	Clean Architecture within React.js app	5 days	20	Complete in Sprint 2
Router Setup	Change in the way router needs to be setup	Integrating react frontend with node backend	5 days	20	Incomplete in Sprint 2 (Shifted to sprint 3)
Data Gather and cleaning	Storing data and json dict clean to csv	Clean data from dict and convert to csv file	3 days	20	Complete in Sprint 2
Input data	Send clean data to algo	Send data to algo functions	3 days	10	Complete in Sprint 2

1 algo run + output	Run one algo with output	Algo function input and run	3 days	10	Complete in Sprint 2
2 algo run + output	Run one algo with output	Algo function input and run	3 days	10	Sprint 3
Chart.js	Creating framework for chartjs	Create framework for chart.js	5 days	20	Sprint 3
Output	All output on the frontend,	Show output on frontend	3 days	10	Sprint 3
Auto run	All auto run on the	autoupdate	3 days	10	Sprint 3
Router setup	Integrate, coming from the sprint 2	Integrating react frontend with node backend	5 days	20	Sprint 3
Chart.js	Integrate chart js to data output	Integrate data	3 days	20	Sprint 4
All algo run	Run one algo with output	Algo function input and run	3 days	20	Sprint 4
Output	All output on the frontend,	Show output on frontend	3 days	10	Sprint 4
Final test	Final run to all algo and each process to function as intended	Autoupdate, run all to show output	3 days	20	Sprint 4

Under the table to represent the details for the product backlog, the product backlogs has been arranged with the priority, the section of the task does represent the small tasks that were inside that specific part, ideal time does include the ideal hours and days that were decided for this part, points is the section that includes the part of the task and product backlogs that were considered to be a part of the backlog and have been assigned to a specific point, goal and status section of the table does represent the section which shows how much of the work is done if that is complete or if the part is left for future sprints.

- Files submitted in Canvas and uploaded to GitHub repository:
    1. Pdf version of Sprint 2 file (Project Summary)
    2. Presentation
    3. Video

4. [GitHub repository](#)