Sprint 3 Report (02/27/24) - ImageGen

Actions to Stop Doing:
These are the activities or actions the team determined they should stop doing. This is the answer to the question, "What things should we stop doing?" The items should take the form of a brief description of what the team wants to stop doing, followed by a brief explanation. If there are no items, this section should describe why the team is completely satisfied with their current process.

- **We will stop working on ImageGen, CaptionGen, EditImage in the backend:** The current progress in the backend is sufficient enough that we can just focus working on the frontend and the backend APIs.
- **Pair Programming:** We finished most of the coding portion of the product that requires a GPU so we can switch to frontend and have the GPU members necessary parts.

Actions to Start Doing
These are the activities or actions the team would like to start doing to improve their development process. This is the answer to the question, "What should we start doing?" The items should take the form of a brief description of what the team wants to start doing, followed by a brief explanation.

- **Start to add login and sign up authentication:** We should start investigating methods to implement authentication and store user information.
- **Start to add archive page**: This page is a private database for each user to save their generated images
- **Start to redesign UI**: We should start redesigning our UI for the frontend using Figma.
- **Extensively Test The Features**: We finished all the core features of the MVP so it would be good to begin testing its functionality to make sure they fully work.

Actions to Keep Doing:
This is the answer to the question, "What is working well that we should continue to do?" The items should take the form of a brief description of what the team wants to start doing, followed by a brief explanation.

- **Focus on the Frontend Website**: We need to prioritize enhancing the user experience on the frontend, even though it's currently being utilized primarily for testing rather than as a finished product for end-users.
- **Meetings with 3 day gaps.** The extended gap between meetings provided our team with sufficient time to complete individual tasks. These tasks often involved working in isolation. Expanding the time between meetings proved beneficial, as it increased productivity during stand-up sessions by providing more substantial updates to discuss. Additionally, it afforded team members the flexibility to manage their workload efficiently,

particularly if they anticipated a busy week ahead, ensuring tasks were completed before the next stand-up meeting.

- **Using Discord**: Our main platform for communication has been Discord, where we frequently engage in lengthy discussions about the challenges we face and coordinate test runs on other team members' GPU resources. Discord has proven invaluable in keeping us connected and active participants, making it much more convenient to reach out to one another compared to other communication methods.
- **Using Jira Board**: Using Jira has been helpful in keeping track of what other team members are working on and what needs to be done this sprint.

- **Demoing:** This helps identify problems that need to be fixed right away. In addition, identify what improvements we can make related to the product we are trying to make.
- **GitHub Repo Branches:** This allowed team members to work on isolated features without woring about conflicts.

Work Completed + Not Completed:

This is a list of the user stories that were completed during the previous sprint, and a list of the user stories not completed during this sprint (but which were part of this sprint and were in the sprint plan).

As a user, I want to interact with a website to input an image and/or caption. (Completed)

- Task 1: Setup PC to host website (Completed)

As a user, I want to be able to see the caption generated from my uploaded image that will be used to generate a social media caption. (Completed)

- Task 1: Edit CaptionGen to show both BLIP caption and LLM caption (Completed)

As a user, I want the option to choose the “tone” of the generated social media caption. (Completed)

- Task 1 - Add a trendy tone for LLM (Completed)
- Task 2 - Add a funny tone for LLM (Completed)
- Task 3 - Add an inspirational tone for LLM (Completed)

As a user, I want to pick between different image-generating/editing models. (Incomplete)

- Task 1 - Add a slow but high-quality image model (Completed)
- Task 2 - Add a fast but poor-quality image mode (Completed)
- Task 3 - Add a model that produces different art styles (Product Backlog)

As a user, I want to be able to see each generated image sequentially rather than waiting for a large batch (Completed)

- Task 1 - Make images load one by one (Completed)

As a user, I want to be able to log in to the website to save images (Incomplete)

- Task 1 - Setup authentication (Completed)
- Task 2 - Make a private archive (Incomplete)

As a user, I want to be able to see what other users created for inspiration and fun (Completed)

- Task 1 - Develop Explore Page (Completed)
- Task 2 - Add an image gallery (Completed)
- Task 3 - Make a database of images users have generated with MongoDB (Completed)

Work Completion Rate:

This section should report the following: total number of user stories completed during the prior sprint. Total number of estimated ideal work hours completed during the prior sprint. Total number of days during the prior sprint. For the previous sprint, the user stories/day and ideal

work hours/day figures should be reported. For sprints past the first sprint, this section should also provide the average user stories/day and average ideal work hours/day figures computed across all sprints to date. The final sprint burnup chart for the previous sprint should be available for viewing in the lab and an email of this chart sent to the TA/prof.

Numbers of Story worked vs. Estimates:

- We estimated 50 hours across our six user stories. We actually worked about 40 hours.
- For the most part, we worked an average of 3.57 hours per day.

Burn-up Chart: