

Capstone Agile Challenge

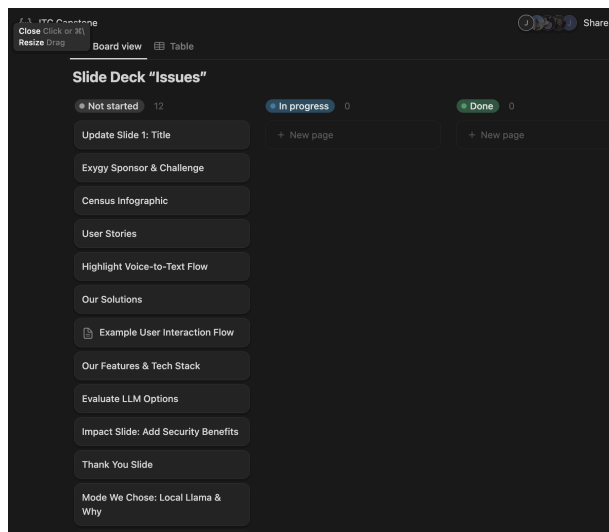
Framework Selection:

What we learned from this past week's sessions, both Scrum and Kanban are both excellent for managing projects. Scrum is used for more structured and predictable projects with a goal-oriented approach. Kaban is favorable for a continuous workflow and offers more flexibility.

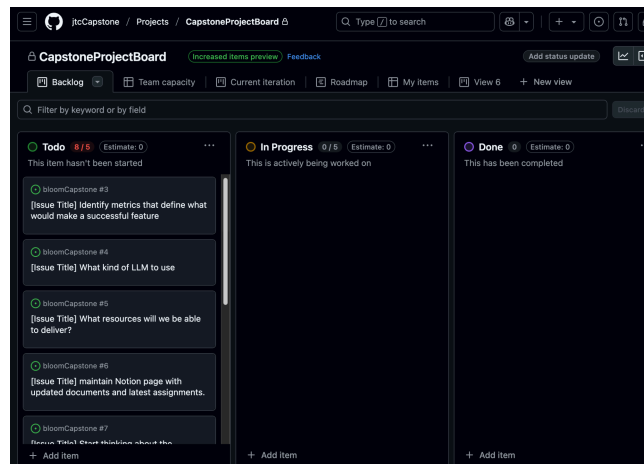
	Best Usage
Kanban	<ul style="list-style-type: none">• Flexibility - Kanban would allow us to handle tasks as they come, like new bugs or new integrations• Visual Workflow - Kanban board allows to track task more easily which can prevent bottlenecks and optimize flow• Continuous Delivery - Kaban does not have to wait for the end of a sprint to deliver updates. This is beneficial in case our bot needs frequent modifications.
Scrum	<ul style="list-style-type: none">• Structured Development - Scrum is meant to work in sprints (1-4 weeks) that can help us focus on delivering specific features like NLP or UI design.• Defined Roles - In choosing roles (Scrum Master or Product Owner, for example) the responsibilities are clear and allows for better collaboration.• Iterative Progress - At the end of a sprint, we have a feature to deliver and we are able to receive feedback.

GitHub Projects and Issues:

We first created our Backlog in our Notion page:



We then moved them to our GitHub Projects:



Tool Evaluation:

GitHub Project is a project management tool integrated with Github to work with their other tools to track tasks, link them to code changes, and collaborate in the same platform. Trello is a visual and user-friendly tool for organizing tasks across various workflows and caters to non-technical teams as well.

More specifically GitHub Projects is deeply integrated with our repository and allows us to link tasks to commits, pull requests, or issues. It also offers automation, like when a commit is made, it automatically moves tasks across the board based on its status.

Trello is user-friendly and very visually intuitive. It is also highly customizable for any workflow, like moving from brainstorming ideas to tracking tasks. While on the other side, Jira is a very common SCRUM software tool, offering many visual ways to manage complex projects, track progress, and facilitate collaboration within Scrum teams.

That said, we decided to utilize GitHub Projects because we are already using GitHub so it is better to stick with as few softwares as possible so we do not get lost. We also liked that it is directly connected to our repo codebase, which makes it easier to track tasks and see progress.

Reflection:

The most valuable part for us at this stage of the project is abstract conceptualization as it is meant to analyze patterns and insights to develop a structured framework for improvement. We do not have a feature we can currently use but we can kinda visualize how a user may interact with the feature, what kind of problems will arise, and the improvements we can make. Going through this allows us to create theoretical solutions and strategies that can guide our future work. For example, we agreed that a user may spend too much time with the ai bot or their conversation can veer off-topic, so we came up with some solutions to save token usage

and bring back the conversation to the application. This gives us a better idea of how to make the bot more efficient and user-friendly while completing its task.