Weekly Progress Report (Week 5)

Team No. 510

Anthony Vo, Evan Gurry, Mateus Aurelio, Palak Tyagi

Sprint Review:

Status of the current sprint

Note: Use Item No. for non-user story work like infrastructure set-up.

User Story ID/ Item No.	Story Points	User Story Link	Owner	Status	Remarks
ITEM002-US010	3	n/a	Anthony, Mateus	On Hold	We will look into some popular text-to-speech services to assist in our screen reader. (No Updates)
ITEM003-US009	2	n/a	Anthony, Mateus, Palak	On Hold	We will look into color schemes and specific accessibility designs that will help the visually impaired. (No Updates)
ITEM004-US006	5	n/a	Anthony, Mateus, Evan	In Progress	We will look into mathematical formula packages for TypeScript that we can use. IP: We found a few packages for parsing strings as commands.
ITEM001-US001	3	n/a	Anthony, Mateus, Evan, Palak	In Progress	We will create a data structure to hold our cell data. IP: We found a few tutorials online and explored how they implement a data structure for the cell data.
ITEM002-US001	…	n/a	Anthony, Mateus, Evan	On Hold	We will explore the React library to create components for the Options Pane and some buttons. OH: We explored some UI designs, but have not looked into React at all until we begin implementation.
ITEM001-	…	n/a	…	On Hold	We will add the ability to insert a

US002					column to the cell data. (No Updates)
ITEM002-US002	…	n/a	…	On Hold	We will connect the ability to add a column to the “Add Column” button in the Options Pane. (No Updates)

Individual Contributions:

Please provide 1-2 sentences to describe the contributions of each team member during the past week.

Anthony Vo:

- Met up to discuss how we should approach initial implementation of spreadsheet application, discussing overall strategies.
- Decided on next steps we can work on individually for the next week.
- Began search for formula parsing TypeScript and array (math) packages.

Evan Gurry:

- Met up to discuss how we should approach initial implementation of spreadsheet application, discussing overall strategies.
- Decided on next steps we can work on individually for the next week.
- Worked through a YouTube video discussing an example spreadsheet implementation.

Mateus Aurelio:

- Met up to discuss how we should approach initial implementation of spreadsheet application, discussing overall strategies.
- Decided on next steps we can work on individually for the next week.
- Continued implementation of UML diagram to refine program design.

Palak Tyagi:

- Decided on next steps we can work on individually for the next week.

Sprint Retrospective:

Please answer the below questions in 1-2 sentences (use more if something really went wrong).

What went well in the previous sprint?

We were able to meet up for about an hour and a half, deciding on how to approach the start of the program. We found some tutorials and have a solid roadmap on how we want to continue developing the spreadsheet application.

What obstacles were encountered in the previous sprint?

The initial implementation of the spreadsheet application is difficult to implement as a group because the group cannot be split up easily. We decided to meet up in-person together and do some peer programming to tackle this. Additionally, some of the tickets we created were maybe too ambitious to accomplish in a single week.

What can we improve in the next sprint?

Next sprint, we can try to focus our efforts more into implementing design patterns after getting an initial implementation of the spreadsheet application.

Sprint Planning:

(NOTE: Everything from the past sprint is still "In Progress", so we continue these tickets.)

User Story ID/ Item No.	Story Points	User Story Link	Owner	Status	Remarks
ITEM002-US010	3	n/a	Anthony, Mateus	On Hold	We will look into some popular text-to-speech services to assist in our screen reader. This will help us understand how our data and button elements need to be structured. OH: We cannot solidify on a TTS service without a good understanding of our design.
ITEM003-US009	2	n/a	Anthony, Mateus, Palak	On Hold	We will look into color schemes and specific accessibility designs that will help the visually impaired. OH: We should implement actual functionality before any consideration of UI.
ITEM004-US006	5	n/a	Anthony, Mateus, Evan	In Progress	We will look into mathematical formula packages for TypeScript that we can use. IP: We found a few packages for parsing strings as commands.
ITEM001-US001	3	n/a	Anthony, Mateus, Palak, Evan	In Progress	We will create a data structure to hold our cell data. IP: We will follow a tutorial to begin implementation of a spreadsheet. **Highest Priority**
ITEM002-US001	…	n/a	Anthony, Mateus, Evan	On Hold	We will explore the React library to create components for the Options Pane and some buttons.
ITEM001-US002	…	n/a	…	On Hold	We will add the ability to insert a column to the cell data.

ITEM002-US002	…	n/a	…	On Hold	We will connect the ability to add a column to the “Add Column” button in the Options Pane.

Product Backlog:

User Story ID/ Item No.	Story Points	User Story Link	Owner	Status	Remarks
US001	13	https://github.com/neu-cs4530-fall2023/team510-project/issues/1	@everyone	Defined	As a user, I want to be able to create a blank spreadsheet so that I can start entering and storing data. Will have to break this down.
US002	5	https://github.com/neu-cs4530-fall2023/team510-project/issues/2	Palak, Evan	Defined	As a user, I want to be able to insert and delete rows and columns so that I can easily format my spreadsheet how I want it to look.
US003	5	https://github.com/neu-cs4530-fall2023/team510-project/issues/3	Mateus, Evan	Defined	As a user, I want to be able to insert, modify, and delete the contents of a cell (including its formula if used) so that I can enter and store data.
US004	3	https://github.com/neu-cs4530-fall2023/team510-project/issues/4	Mateus, Evan	Defined	As a data analyst, I want to be able to reference a single other cell and retrieve its value so that I can avoid adding redundant data.
US005	3	https://github.com/neu-cs4530-fall2023/team510-project/issues/5	Mateus, Evan, Anthony	Defined	As a data analyst, I want to be able to use range expansion (potentially in combination with formulas) to reference multiple cells so that I can quickly reference a lot of data at once.
US006	8	https://github.com/neu-cs4530-fall2023/team510-project/issues/6	Anthony, Mateus	Defined	As a data analyst, I want to be able to use formulas that can calculate values using data stored in other cell(s) (this includes the concatenation and arithmetic operators) so that I can quickly

					analyze the data I have.
US007	8	https://github.com/neu-cs4530-fall2023/team510-project/issues/7	Palak, Evan	Defined	As a user, I want to be informed when I make an illegal action (error handling) and tell me what I did wrong so that I can fix it without much hassle.
US008	8	https://github.com/neu-cs4530-fall2023/team510-project/issues/8	Palak, Anthony	Defined	As a user, I want to be able to save and open my spreadsheet so that I can continue editing it later with all the data intact.
US009	5	https://github.com/neu-cs4530-fall2023/team510-project/issues/9	Mateus, Anthony, Palak	Defined	As a visually impaired user, I want to be able to theme my spreadsheet application so that it is easier to view at night (dark mode), and for my weaker eyes (high contrast).
US010	5	https://github.com/neu-cs4530-fall2023/team510-project/issues/10	Anthony	Defined	As a visually impaired user, I want to be able to use this application using a screen reader application so that I am still able to use the software despite being visually impaired.
ITEM002-US010	3	n/a	Anthony, Mateus	On Hold	We will look into some popular text-to-speech services to assist in our screen reader.
ITEM003-US009	2	n/a	Anthony, Mateus, Palak	On Hold	We will look into color schemes and specific accessibility designs that will help the visually impaired.
ITEM004-US006	5	n/a	Evan	On Hold	We will look into mathematical formula packages for TypeScript that we can use.

General Scrum/Agile related guidelines:

- Spend the initial sprint to capture the work you foresee from now until the end of the project and create placeholder User Stories (with status defined) or Items for them (assigning tentative estimates if possible). These should all be part of the Product Backlog.
- Lifecycle (status) of User Stories:
    - Defined: User story exists for work item but several details are missing and is not ready to start development. (Exists in the Product backlog)
    - Ready: User Story has all the details (estimate, acceptance criteria, etc.) filled in and there is sufficient detail to start development. (Exists in Product backlog and can be pulled into a sprint)
    - In-progress: Some developer is working on the story (should have an explicit owner)
    - QAT (Quality Assurance Testing): (optional) Development complete and is being tested.
    - Complete: The development and testing for the story is complete and it is ready to demo.
    - Accepted: The demo is satisfactory and meets the acceptance criteria. Signifies successful implementation.
- User stories can move back and forth as part of development and testing.
- You can have multiple stories as “Defined” in the Product backlog and you can fill in information and move them to “Ready” as you have more information.
- However, a story must be “Ready” before you can include it in a sprint plan.