Weekly Progress Report (Week 4)

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
ITEM003	3	n/a	Anthony, Mateus, Palak	Complete	We will add to the acceptance criteria of the **user stories** defined in Week 1 so that we have a more through understanding of the application.
ITEM004	1	n/a	Anthony	Complete	We will **create UI prototypes** of the application so that we have an idea of how the app may look.
ITEM001-US001	3	n/a	@everyone	Complete	As a group, we need to come to a consensus on what design patterns we use, etc.
ITEM005	3	n/a	Anthony, Mateus, Evan	Complete	We will create a **UML diagram** of the application using various object-oriented design patterns so that we adhere to effective and modular code.
ITEM002-US001	3	n/a	Anthony, Mateus	Complete	We will set up the **TypeScript interface** outlines to outline and prototype our application design.
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.

Individual Contributions:

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

Anthony Vo:

- Completed UI prototype designs on Figma for most of the user stories (8 total prototypes).
- Completed reworking the previously discussed user stories, adding in appropriate and more through acceptance criteria to assess completion.
- Finalized design patterns that we can implement for first prototype.
- Assisted with UML diagram creation for code structure.

Evan Gurry:

- Finalized design patterns that we can implement for first prototype.
- Completed reworking the previously discussed user stories, adding in appropriate and more through acceptance criteria to assess completion.

Mateus Aurelio:

- Finalized design patterns that we can implement for first prototype.
- Completed planning out specifics of how we will use the design patterns.
- Finished digital UML Diagrams for our application's structure.

Palak Tyagi:

- Finalized design patterns that we can implement for first prototype.
- Completed reworking the previously discussed user stories, adding in appropriate and more through acceptance criteria to assess completion.

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?

In the previous sprint, we were able to set up the groundwork necessary to begin implementing our spreadsheet application. We came to a consensus on what design patterns to use as well as what our program should like and how it should function. We feel good about the current state of progress made so far.

What obstacles were encountered in the previous sprint?

We did not encounter any major obstacles this previous sprint. We originally intended on discussing design patterns much sooner to get the ideas fresher in our head (which could have led to more constructive feedback within the group).

What can we improve in the next sprint?

Next sprint, we will expand on the TypeScript templates we have created to begin creating 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.
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.
ITEM001-US001	3	n/a	Anthony, Mateus	In Progress	We will create a data structure to hold our cell data.
ITEM002-US001	…	n/a	Anthony	In Progress	We will explore the React library to create components for the Options Pane and some buttons.
ITEM001-US002	…	n/a	…	In Progress	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.