

## Weekly Progress Report (Week 2)

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
ITEM001	3	n/a	@everyone	Complete	We will plan out how to split the workload for HW2.
ITEM002	1	n/a	Anthony, Evan	Complete	Set up git repository for a basic TypeScript web app with React.

### Individual Contributions:

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

Anthony Vo:

- Predominantly occupied with studying for CS4530 midterm, completing HW2, and working on the in-class calculator assignment.
- Discussed with partners how to distribute ticket workload.
- Began researching how to create a spreadsheet application in React, using the model-view-controller design pattern.

Evan Gurry:

- Pulled away by an overwhelming amount of work this week so progress was slow to pick up.
- Discussed how we could describe and divy up work between members of the team.
- Set up team repo with user story issues and milestones.

Mateus Aurelio:

- Researched React and worked on Typescript design patterns that may be relevant for this project.
- Began planning how the spreadsheet will store and reference data within cells.

Palak Tyagi:

- Explored options for real-time data updates and synchronization.
- Consider incorporating interactive charts and graphs for data visualization.
- Consider integrating the spreadsheet application with a backend server for persistent storage and data retrieval.

## 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?

Despite each of us having many other responsibilities regarding the courseload of this course, we were still able to meet and discuss the next steps and begin planning the outline of how we want to tackle the spreadsheet application.

What obstacles were encountered in the previous sprint?

We believe we could have done a bit more to get Phase B rolling, but we are content with the amount of progress that has been made so far.

What can we improve in the next sprint?

In the next sprint, we should begin implementing and flushing out the planned interfaces and templates we have created for the spreadsheet application so far. Additionally, we should look more into some design patterns and external TypeScript packages we can leverage to simplify our work.

## Sprint Planning:

User Story ID/ Item No.	Story Points	User Story Link	Owner	Status	Remarks
US001	13	<a href="https://github.com/neu-cs4530-fall2023/team510-project/issues/1">https://github.com/neu-cs4530-fall2023/team510-project/issues/1</a>	@everyone	In Progress	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.
ITEM001 -US001	8		@everyone	In Progress	As a group, we need to come to a consensus on what design patterns we use, etc.
ITEM002 -US010	3		Anthony, Mateus	Defined	We will look into some popular text-to-speech services to assist in our screen reader.
ITEM003 -US009	2		Anthony, Mateus, Palak	In Progress	We will look into color schemes and specific accessibility designs that will help the visually impaired.

ITEM004 -US006	5		Evan	Defined	We will look into mathematical formula packages for TypeScript that we can use.
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## Product Backlog:

User Story ID/ Item No.	Story Points	User Story Link	Owner	Status	Remarks
US001	13	<a href="https://github.com/neu-cs4530-fall2023/team510-project/issues/1">https://github.com/neu-cs4530-fall2023/team510-project/issues/1</a>	@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	<a href="https://github.com/neu-cs4530-fall2023/team510-project/issues/2">https://github.com/neu-cs4530-fall2023/team510-project/issues/2</a>	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	<a href="https://github.com/neu-cs4530-fall2023/team510-project/issues/3">https://github.com/neu-cs4530-fall2023/team510-project/issues/3</a>	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	<a href="https://github.com/neu-cs4530-fall2023/team510-project/issues/4">https://github.com/neu-cs4530-fall2023/team510-project/issues/4</a>	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	<a href="https://github.com/neu-cs4530-fall2023/team510-project/issues/5">https://github.com/neu-cs4530-fall2023/team510-project/issues/5</a>	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	<a href="https://github.com/neu-cs4530-fall2023/team510-project/issues/6">https://github.com/neu-cs4530-fall2023/team510-project/issues/6</a>	Anthony, Mateus	Defined	As a data analyst, I want to be able to use formulas that can

		<a href="https://github.com/neu-cs4530-fall2023/team510-project/issues/6">30-fall2023/te am510-project /issues/6</a>			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	<a href="https://github.com/neu-cs4530-fall2023/team510-project/issues/7">https://github. com/neu-cs45 30-fall2023/te am510-project /issues/7</a>	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	<a href="https://github.com/neu-cs4530-fall2023/team510-project/issues/8">https://github. com/neu-cs45 30-fall2023/te am510-project /issues/8</a>	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	<a href="https://github.com/neu-cs4530-fall2023/team510-project/issues/9">https://github. com/neu-cs45 30-fall2023/te am510-project /issues/9</a>	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	<a href="https://github.com/neu-cs4530-fall2023/team510-project/issues/10">https://github. com/neu-cs45 30-fall2023/te am510-project /issues/10</a>	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.

### 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.