Weekly Progress Report (Week 6) Team 507

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
US00002 (Allow Cell References Frontend)	2	no link yet	James	In-progress	my implementation needed to be updated to work with the frontend
US00003 (Allow Range Expression Backend)	3	no link yet	Suhani	Completed	Completed and tested the functionality
US00005 (Allow Cells to Contain Formulas)	3	no link yet	James	In Progress	still playing with different libraries and integrating with front-end
US00009: Display Current Cell Values (Frontend)	4	no link yet	Amaiya	Completed	Completed basic implementation of front-end and connected to back-end

US000017 Search Bar (Frontend and Backend)	1	no link yet	Bianca	Completed	Completed the search bar functionality. User can now search for any value or string within the spreadsheet.
US00006	2	no link yet	Bianca	Completed	
US00019: Undo/Redo (Backend)	3	no link yet	Suhani & Bianca	In Progress	Working on the frontend buttons and linking them with the backend
US00004: Allow Cell References (Backend)	2	no link yet	Suhani	Completed	Biance helped fix some bugs in the implementation

US00002: Allow Cell References (Backend)

US00003: Allow Range Expressions (Backend)

US00006: Error handling (Backend)

US00005: Allow Formulas in Cells (Backend)

US00009: Display Current Cell Values (Frontend)

US00019: Undo/Redo (Backend)

US00017: Search bar (Backend)

Individual Contributions:

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

Amaiya Brickhouse:
We met twice this sprint to discuss how things were going with each of our implementations and any questions we had based on our work so far. I implemented the base for the user interface

and started connecting it to the backend representation of the spreadsheet. We also talked about changing some of our initial design decisions since after implementing some things we realized some classes would be redundant. We also talked about some of the issues we had during the sprint and started discussing how we could tackle them.

Bianca Anne-Marie Ciorobea:
We met twice and discussed our progress and what we are planning to work on within the next sprint. We spoke about challenges we are facing in our implementation and how we can improve certain parts of our project. We chose what parts we wanted to focus on next and tried to figure out how many of the required features we have implemented so far. I worked on the search bar functionality in both frontend and backend. I also worked on making the dropdown menu for each cell work (in frontend), which is used for adding a row/column at a specific point, deleting a row/column and clearing a cell. Moreover, I started working with Suhani on implementing the cell references and range expressions in the frontend part of the project and the undo/redo buttons.

Suhani Singhvi:
We met twice, discussed our progress on our user stories and issues with each of our implementations. We also discussed which parts from our initial implementation we can remove as they are redundant. These were mostly in the backend as most of this functionality can be implemented in the frontend. We discussed which user stories we will work on in the current sprint. I worked on adding the functionality in the cell to contain and evaluate range expression values. Moreover, I worked with Bianca on the implementation of allowing range expression in cells in the frontend. I also worked on making the dropdown menu for each cell (used for adding and deleting cells) disappear on click.

James Peterson:
We met twice this sprint to discuss how each of us was doing and discussed changes to earlier designs (specifically, removing some redundant classes). I worked on cell formulas and integrating the formula feature with the front-end implementation. Next sprint I will be finishing that and will provide error handling (both hidden backend errors and errors to display to the user) for Formulas and Cell References.

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?
Team members met and communicated effectively about the current user stories, and the progress of each member. Team members collaborated often and efficiently during this sprint as we started to connect the front-end to back-end functionality. There were no conflicts among team members regarding what each person completed and people were able to work together well, and many user stories were able to be completed and a couple of new ones were able to be started.

What obstacles were encountered in the previous sprint?

We ran into difficulties with implementing different parts of the application, especially with connecting parts of the frontend with our backend implementation. Additionally, working individually on stories made it hard for us to understand what each team member was thinking, and how their implementation was progressing. Since most of the parts of this project are tightly connected, it was hard to make progress without consulting other members on their parts.

What can we improve in the next sprint?

Now that we have much more of an existing codebase to work on, it will be easier for us to understand how the project fits together and how new features will integrate into it. Working together on some problems (pair programming) will improve group cohesion and collective understanding of the project, as was shown when two of our group members collaborated directly on some problems.

Sprint Planning:

Plan for next sprint

User Story ID/ Item No.	Story Points	User Story Link	Owner	Status	Remarks
US00003	2	no link yet	Suhani & Bianca	In-progress	
US00002	2	No link yet	Suhani & Bianca	In-progress	
US00022	1	No link yet	Amaiya	In-progress	Multiple screens
US00006	2	no link yet	Bianca	In- progress	
US00018	4	No link yet	Amaiya	Ready	charts

US00005	3	No link yet	James	In-progress	finalizing choice of third party library and finding what works best with front-end
US00012	1	no link yet	James	In-progress	
US00013	1	no link yet	James	In-progress	
US00014	1	no link yet	James	In-progress	
US00017	4	No link yet	Bianca	In-progress	
US00019	4	No link yet	Suhani & Bianca	In-progress	Working on the frontend buttons and linking them with the backend

US00003: Allow Range Expressions (Frontend)

US00002: Allow Cell References (Frontend)

US00005: Allow Formulas in Cells (Backend)

US00012: Error Handling for Data Types (both Frontend and Backend)

US00013: Error Handling for Cell References and Range Expressions (both)

US00014: Error Handling for Formulas (both)

US00019: Undo/Redo (Frontend)

US00022: implementing multiple screens (Frontend)

US00018: Creating Charts (Backend)

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. o 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.