

# **Scrum Report**

**Sprint Duration: 4/21 - 4/27**

**Sprint Goal: Add fixes from User Study and final touch-ups**

## **Meeting Logs:**

4/21: We reviewed feedback from the completed user study and identified the highest priority fixes. The first being standardizing dialogue box sizes across structures. The next was ensuring uniform image/chart sizing. Finally, we also wanted to emphasize improving overall text readability. We agreed not to add any new features unless necessary, focusing purely on polishing, consistency, and user experience.

4/23: This day we focused specifically on adjusting sidebar container sizes, padding, and margin settings. Verified that BST and Linked List sidebars had inconsistent box dimensions compared to Stack and Queue, and started aligning their layouts. Created a checklist of consistency points for everyone to use during revisions.

4/25: On this day, we focused on enhancing text readability. This meant increased font size slightly, and improved color contrast between text and background. Checked that all headings were centered and consistent. Conducted an informal but structured internal user test: each team member spent time navigating each sidebar without documentation, simulating a new user's perspective. Logged any confusing UI elements. Found one minor issue with BST node preview sizing, which was corrected. Also finalized hover effects across all buttons.

4/27: We were pretty much done with everything but wanted to review the full integration. This meant checking Stack, Queue, Linked List, and BST structures in sequence to ensure it all worked consistently. Verified that all canvas previews generated images of standardized size. Minor text alignment bugs were corrected during this session. We also confirmed all the documents were completed and written to a high standard.

## **Product backlog:**

ID	Task Description	Assigned To	Estimation	Priority
1	As a user, I want all dialogue boxes to have a consistent size	Ethan	3 days	3
2	As a user, I want inserted charts/images to have uniform dimensions	Charles	3 days	2
3	As a user, I want all text to be readable with matching fonts	Yash	2 days	5
4	As a user, I want structured input areas to be visually intuitive and standardized	Ethan	4 days	1
5	As a tester, I want to validate that all structures (Stack, Queue, Linked List, BST) display consistently	Sean	4 days	4

## Burndown Chart (Sprint 4)

Date	Remaining Tasks	Notes
4/21	5 tasks	Sprint starts. Major UI polish planned.
4/22	4 tasks	Sidebar sizing adjustments started.
4/23	3 tasks	Canvas/image sizing standardized. Font changes underway.
4/24	2 tasks	Padding, margins, and text clarity improved.
4/25	1 task	Final UI self-testing nearly complete.
4/26	0 tasks	QA testing verified consistency across structures.
4/27	0 tasks	Sprint closeout and final submission preparation.

## Major UI Revisions in Sprint 4

- Consistent Box Sizes:  
Dialogue and sidebar containers were aligned for Stack, Queue, Linked List, and BST visualizations.
- Standardized Canvas/Image Sizes:  
Fixed canvas dimensions in BST and Linked List previews to prevent inserted images from being inconsistently sized in Google Docs.
- Font and Readability Improvements:  
Unified fonts across all screens. Improved padding, margins, and color contrast for a better user reading experience.
- Visual Behavior Updates:  
All buttons had standardized hover behaviors. Minor visual bugs were corrected (e.g., text alignment inside dialog boxes).
- Full Internal Testing:  
Verified that the add-on provides a consistent, clear, and visually smooth experience across all supported structures without the need for extra user instruction.