

Sort Visualizer Sprint 2

The Sorters

From Tuesday July 6 - July 13 2020

Goal: Implement sorting animations so that we have a minimum viable product as well as some other quality of life improvements for the users of the site.

User Story 1:

“As a student, I can see animations of data points moving during sorting algorithms so that I can better understand how sorting algorithms work”

- Define consistent design language across sorts
- have a visual indicator that shows where the comparison is taking place
- implement quicksort animation
- implement merge animation
- implement bubble animation
- implement selection animation

Total Hours: 10

*Each sorting algorithm chosen needs its own method of being displayed to the user and has to be implemented separately.

User Story 2:

“As a educator, I would want to see a code window that has pseudo code that syncs with the animation to help explain what the code is doing at every step”

- create pseudocode for each sorting algorithm -4hrs
- create collapsable window gui on the opposite side of animation -1 hr

- sync pseudocode so that instructions line up with on screen animations -3hr

Total Hours: 8

User Story 3:

“As a student, I can modify the speed of animations using a slider so I can process different steps during sorting”

- implement a system to slow down animations and execution of instructions. -2hr

- create slider gui for animation speed -1hr

Total Hours: 3 hrs

User Story 4: “As a student, I can see non traditional animations of data points moving during sorting algorithms so that I can a different perspective on the same sorting algorithms”

- implement sorting of an image by color hue -4 hrs

- implement animation of bubble sort with bubbles -4hrs

Total Hours: 8 hrs

Team Roles:

Shawn Lo: Project Owner, Team Member

Alex Lee: Scrum Master for Sprint 1

Cameron Peeters: Team member

Atticus Jones: Team Member

Julian Shalaby: Scrum Master for Sprint 3

Luciano Orellana: Scrum Master for Sprint 2

Initial task assignment:

- Shawn: implement quicksort algorithm with animations
- Cameron: User Story 2(work on pseudo code and menu)
- Alex :user story 3, animation of image color sorting
- Atticus, Luciano: User story 3, Implement a slider

Scrum Board:

<http://scrumbler.ca/Sorting%20Algo%20Visualizer%20Sprint%202>

Scrum Times: Wed 7/1 5pm

Fri 7/3 5pm

Sun 7/5 5pm