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.

New Goal: Animate a wide variety of sorting algorithms while providing users with control over certain parameters of the sort and how its animated.

User Story 1 (12 Points):

"As a student , I want to be able to see how each sorting algorithm works through a unique animation for each sort because each sort is different and requires a different representation."

-Define consistent design language across sorts -1Hr

-have a visual indicator that shows where the comparison is taking place -1 HR

-implement quicksort animation -2 hr

-implement merge animation-2 hr

-implement bubble animation-2 hr

-implement selection animation-2 hr

Total Hours: 10

User Story 2 (8 points):

"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 (3 Points):

"As a visual learner, I want buttons next to the view of the array in order to change aspects of the sort to my liking to get an experience custom tailored to me"

-implement sliders such as sorting speed/delay and size of array for user to fine tune before activating the sort visual -3 hrs

Total Hours: 3

User Story 4 (8 Points): "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: Product Owner, Team Member

Alex Lee: Scrum Master for Sprint 1, Team Member

Cameron Peeters: Team member

Atticus Jones: Team Member

Julian Shalaby: Scrum Master for Sprint 3, Team Member

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://scrumblr.ca/Sorting%20Algo%20Visualizer%20Sprint%202

Scrum Times: Wed 7/1 5pm

Fri 7/3 5pm

Sun 7/5 5pm