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.

New Goal: Animate a wide variety of sorting algorithms while providing users with control over certain parameters of the sort and how it's 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 I want to learn how they work"

         -method for swapping two data members
         -Apply above highlighting to each sort (bubble, selection, merge, quick,insertion)
         -quicksort and insertion animation (use generators)
         -merge sort animation (use generators)
         -bubble sort and selection animation (use generators)
         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 highlights of 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 sorting speed/delay slider -1 hr

-create input box to choose the size of array-1 hr

Total Hours: 2

Team Roles:

Shawn Lo: Product Owner, Team Member

Alex Lee: Team Member

Cameron Peeters: Team member

Atticus Jones: Team Member

Julian Shalaby: 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: https://trello.com/b/4iwFdFom/agile-sprint-board

Scrum Times:

Tue 4pm

Fri 6pm
Sun 5pm