

Sort Visualizer Sprint 3

The Sorters

From Monday July 13 - July 20 2020

Goal:

The goal of this sprint is to improve the website by fixing known errors and making a new page to inform the user about the sorting algorithms that we implemented

User Story 1 (10 points):

- “As a student I want to learn more about the theory of each sorting algorithm because it would be beneficial to my education”
 - Task: Create a second page explaining how each sort works in more detail than just pseudocode with each sorting algorithm's runtime in BigO notation
 - Task: Include a counter for number of comparisons and array accesses for every sort
 - Task: Create a timer that tracks how long it takes to complete a sort.

User Story 2 (5 points):

- "As a user of the website, it should be clear to me what is happening at each step of the sort, so that the animations are more informative for me"
 - Task: create a legend that details what the color associated with each data point means
 - Task: Highlight relevant lines of pseudocode with the current animation shown on screen

User Story 3 (5 points):

- "As an educator it is important for me to be able to step backwards and forwards during a sort so that I can clarify what the effects of any step during a sort are to my students"
 - Task: Create a control bar on the website similar to a media control bar to control the sorting direction

Team Roles:

Shawn Lo: Product Owner, Team Member

Alex Lee: Team Member

Cameron Peeters: Team Member

Atticus Jones: Team Member

Julian Shalaby: Scrum Master

Luciano Orellana: Team Member

Initial task assignment:

Shawn:

- Create a second page explaining how each sort works in more detail than just pseudocode

Alex:

- Create a control bar on the website similar to a media control bar to control the sorting direction

Cameron:

- Finish highlighting the active pseudocode line

Atticus:

- Include a counter for number of comparisons and array accesses for every sort

Julian:

- create a legend
- create a timer

Luciano:

- MIA

Scrum Board: <https://trello.com/b/CG0GGrOm/sprint-3-scrum-board>

Scrum Meeting Times:

- Tuesday 4pm
- Friday 6pm
- Sunday 5pm