Questionnaire for final year project of Jane

Name: Steve

Year: 4

1. Compared with your previous methods to learn Data Structures and Algorithms, do you feel more intuitive by playing around with this demo?

Yes, compared with traditional methods, the demo you purposed has achieved a intuitive experience to me when playing around with it. However, using drag-and-drop may lead to a problem that the degree of wisdom has been declined.

1. If you are teacher, do you prefer the method you have learned or the method in this demo? Briefly explain why?

Neutral, since I had mentioned when answering to the last question, students may be remember an order of to arrange the code blocks without having further understanding of how it should be arranged into this particular order. That is because learning coding and algorithms needs continuous feedback (output) from the current program, to achieve this, you may need to make the code really running on your browser and let them have a chance to take a look at how it happening (such as the orders of variables are in an array in teaching sorting algorithms), in total; It is better to have a “debug” window to display each variables’ value.

1. Based on this demo, which functionalities (drag and drop, check and feedback, switch difficulty level, show context, multiple step, algorithm comparison, record, manage system for question, class) do you think are helpful for teachers to teach data structures and algorithms?

check and feedback, switch difficulty level, show context, multiple step, algorithm comparison, record, manage system for question, class.

1. Based on this demo, which functionalities (drag and drop, check and feedback, switch difficulty level, show context, multiple step, algorithm comparison, record, manage system for question, class) do you think are helpful for students to learn data structures and algorithms?

drag and drop, check and feedback, switch difficulty level, show context, multiple step, algorithm comparison, record, manage system for question, class

1. Which functions (drag and drop, check and feedback, switch difficulty level, show context, multiple step, algorithm comparison, record, manage system for question, class) do you think need further improvement? In what specific areas?

Combination of functions such as combining steps and show context

1. Do you have some other comments?

Refers answers to Q2. 🥳