Questionnaire for final year project of Jane

Name: Kevyn

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, basically because I only need to due with the existing options

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

It depends, maybe I will adopt different methods to different students.

3. 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?

**record, manage system:** If I am the teacher, I would have a strong intention to grasp the learning progress of my students, so the record and management system in the demo will be helpful to let me have a clear view of the whole class’s learning situation.

4. 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**: Writing code from nothing is too hard for the novice, this demo allow learners to choose from options, which will be certainly easier.

**algorithm comparison**: Comparison after doing the exercises will be an important stage in the learning process.

5. 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?

drag and drop, check and feedback

**check and feedback:** it will be great if the system can provide intelligent explanations of the code or answer. (Maybe use GPT to achieve it)

6. Do you have some other comments?

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