

Design Elicitation

Imagine you are an instructor for a course with programming assignments. You want to be able to demo the completed assignments to the students to help them understand the concepts better. Think about a system that would help you accomplish this goal.

As an instructor, what would you want this system to be able to do?

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As a student, what would you want this system to be able to do?

Be interactive, something where I can easily access code to understand the way its working

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Have you used such a system before? If so, how was your experience using it?

I have not

.....

Do you think demoing assignments to students would enhance learning? Why or why not?

yes, maybe not the exact assignment though, something similar that a student could build on for their own work

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What are some concerns you have about letting students see or use such a system?

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How much teaching/TA experience do you have in years?

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As an instructor, what would you want this system to be able to do?

Provide an accurate representation of the assignment

As a student, what would you want this system to be able to do?

If I were a student, would be helpful to use the demo system to try different input/output test cases to verify my program is correct.

Have you used such a system before? If so, how was your experience using it?

I have not used a system like this

Do you think demoing assignments to students would enhance learning? Why or why not?

I think demoing the assignments would be valuable for enhancing success on the given assignment, however I am not sure if it would enhance learning overall. One way to enhance learning would be to demo the same approach across multiple systems/applications.

What are some concerns you have about letting students see or use such a system?

Students might be biased to make their implementation be an exact replica of the demo system (i.e., if a UI is involved). Another concern is that in the real-world you are not given a demo of what to implement before building it (although could see a potential use case w/ LLM-based prototypes before implementation).

How much teaching/TA experience do you have in years?

5

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As an instructor, what would you want this system to be able to do?

Given an answer to the coding assignment, the system can create descriptions about the answers, possibly also add comments to various parts of the code to enhance clarity

As a student, what would you want this system to be able to do?

Clearly explain what each part of the code does, features like hover popup. Take me to any other part of the code where a particular piece of code is referenced from, for example, imports, function, variable definitions etc. Given a function or variable definition, have a popup feature which tells me what its purpose is and where it is being used

Have you used such a system before? If so, how was your experience using it?

Haven't used before

Do you think demoing assignments to students would enhance learning? Why or why not?

Sure it would. On seeing coding solutions, I often find myself scratching my head about a particular line which I have no idea where it came from or what its purpose is. Demoing assignments would be real helpful

What are some concerns you have about letting students see or use such a system?

How much teaching/TA experience do you have in years?

None

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