Post-study survey for code understanding-search

💡 ExpertReview score   Fair

⌄ **Default Question Block**

Q1   💡 ★ ⋯

What was the name of the repository you worked on? (e.g., P3)

▲   📖 Import from library   Add new question

Add Block

⌄ **Realism check**

Q2   💡 ★

How closely did the tasks in this study resemble tasks that real programmers might encounter?

	Not at all closely	Somewhat closely	Moderately closely	Very closely	Extremely closely
First task	○	○	○	○	○
Second task	○	○	○	○	○

▲   📖 Import from library   Add new question

Add Block

⌄ **Search engines**

Q3

Please indicate the extent to which you agree with the following statements concerning **the search engines (the first approach)** you used today.

	Extremely disagree	Quite disagree	Slightly disagree	Neither agree nor disagree	Slightly agree	Quite agree	Extremely agree
Using search engines enabled me to accomplish my task more quickly.	○	○	○	○	○	○	○
Using search engines improved my performance during the task.	○	○	○	○	○	○	○
Using search engines increased my productivity during the task.	○	○	○	○	○	○	○
Using search engines enhanced my effectiveness during the task.	○	○	○	○	○	○	○
Using search engines made it easier to do the task.	○	○	○	○	○	○	○
I have found search engines useful in my task.	○	○	○	○	○	○	○
Learning to use search engines was easy for me.	○	○	○	○	○	○	○
I found it easy to use search engines to return results that I want it to provide.	○	○	○	○	○	○	○
My interaction with search engines was clear and understandable.	○	○	○	○	○	○	○
I found search engines to be flexible to interact with when performing the task.	○	○	○	○	○	○	○
It was easy for me to become skillful at using search engines.	○	○	○	○	○	○	○
I found search engines easy to use.	○	○	○	○	○	○	○

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Q15

Please answer the following questions based on your experience with **the first task (search engines)**.

.

<div style="text-align: left;">Low</div>   <div style="text-align: right;">High</div>

-10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10

How mentally demanding was the task?	
How physically demanding was the task?	
How hurried or rushed was the pace of the task?	
How successful were you in accomplishing what you were asked to do?	
How hard do you have to work to accomplish your level of performance?	
How insecure, discouraged, irritated, stressed, and annoyed were you?	

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Add Block

AI-based VS Code extension

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Q4

Please indicate the extent to which you agree with the following statements concerning **the AI-based VS Code extension (the second approach)** you used today.
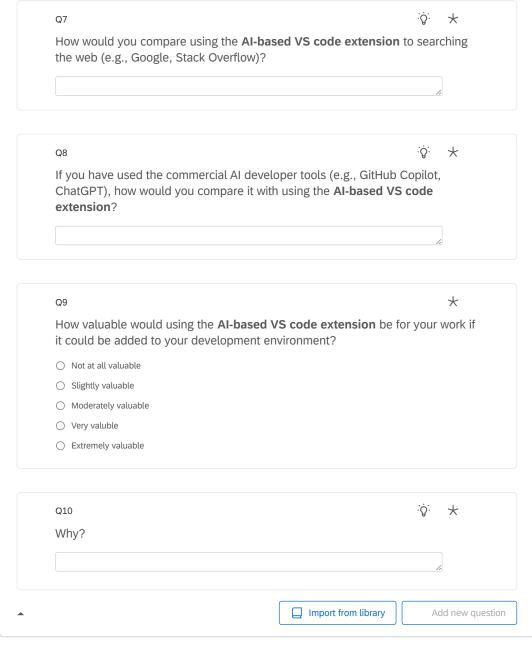
	Extremely disagree	Quite disagree	Slightly disagree	Neither agree nor disagree	Slightly agree	Quite agree	Extremely agree
Using the AI extension enabled me to accomplish my task more quickly.	○	○	○	○	○	○	○
Using the AI extension improved my performance during the task.	○	○	○	○	○	○	○
Using the AI extension increased my productivity during the task.	○	○	○	○	○	○	○
Using the AI extension enhanced my effectiveness during the task.	○	○	○	○	○	○	○
Using the AI extension made it easier to do the task.	○	○	○	○	○	○	○
I have found the AI extension useful in my task.	○	○	○	○	○	○	○
Learning to use the AI extension was easy for me.	○	○	○	○	○	○	○
I found it easy to use the AI extension to return results that I want it to provide.	○	○	○	○	○	○	○
My interaction with the AI extension was clear and understandable.	○	○	○	○	○	○	○
I found the AI extension to be flexible to interact with when performing the task.	○	○	○	○	○	○	○
It was easy for me to become skillful at using the AI extension.	○	○	○	○	○	○	○
I found the AI extension easy to use.	○	○	○	○	○	○	○

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Q16

Please answer the following questions based on your experience with **the second task (AI-based VS Code extension)**.

.

<div style="text-align: left;">Low</div>   <div style="text-align: right;">High</div>

-10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10

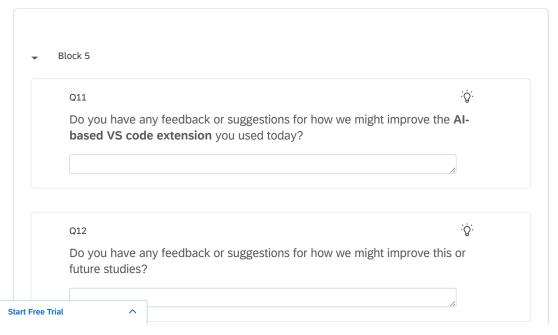|	
How mentally demanding was the task?	
How physically demanding was the task?	
How hurried or rushed was the pace of the task?	
How successful were you in accomplishing what you were asked to do?	
How hard do you have to work to accomplish your level of performance?	
How insecure, discouraged, irritated, stressed, and annoyed were you?	

Import from library   Add new question

Add Block

extension feedback

Q5

How important were these aspects of working with the **AI-based VS code extension**?

	Not at all important	Slightly important	Moderately important	Very important	Extremely important
Ability to ask questions directly to the AI (with code highlighted)	○	○	○	○	○
Ability to ask questions directly to the AI (without code highlighted)	○	○	○	○	○
Ability to generate high-level overview of highlighted code	○	○	○	○	○
Ability to generate explanations for the highlighted API methods	○	○	○	○	○
Ability to generate explanations for concepts	○	○	○	○	○
Ability to generate usage examples of the used API calls	○	○	○	○	○
Ability to embed the generated explanations into code	○	○	○	○	○
Ability to generate multiple versions of the responses	○	○	○	○	○

Q13

If there was a moment when you wanted to use **AI-based VS code extension** while you were using search engines in this study, please describe it in detail.

Q14

If there was a moment when you wanted to use **search engines** while you were using AI-base VS code extension in this study, please describe it in detail.

Q6

What stood out to you about the experience of using the **AI-based VS code extension**? For example, was anything good, bad, surprising, or notable?

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Q7

How would you compare using the **AI-based VS code extension** to searching the web (e.g., Google, Stack Overflow)?

Q8

If you have used the commercial AI developer tools (e.g., GitHub Copilot, ChatGPT), how would you compare it with using the **AI-based VS code extension**?

Q9

How valuable would using the **AI-based VS code extension** be for your work if it could be added to your development environment?

○ Not at all valuable

○ Slightly valuable

○ Moderately valuable

○ Very valuble

○ Extremely valuable

Q10

Why?

Import from library   Add new question

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Block 5

Q11

Do you have any feedback or suggestions for how we might improve the **AI-based VS code extension** you used today?

Q12

Do you have any feedback or suggestions for how we might improve this or future studies?

▲   Add new question

Add Block

End of Survey

We thank you for your time spent taking this survey.

Your response has been recorded.

Import from library   Add new question

Add Block

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