Screening Survey (Part 1)

Details:	have programming in Node.js?
Title: Package and Code Search in	D2: What is your main profession?
Node.js (Part 1, Screening Survey) Which devices can participants use to take your study: Desktop	D3: How often do you program in Node.js?
Does your study require any of the following: Audio, Microphone, Download Software	 □ Never □ Once every few months □ Once per month, on average □ Once per week, on average □ Once per day, on average
Pre-screening:	☐ Multiple times a day
Fluent languages: English Computer Programming: Yes Video call interview: Yes	Section K (Programming Knowledge)
Approval Rate: Minimum Approval Rate: 95, Maximum Approval Rate: 100	K1: Which of these websites do you most frequently use as aid when programming?
Survey	
Section P (Prescreening Validation)	☐ Wikipedia☑ Stack Overflow☐ LinkedIn
P1: Do you have computer programming skills?	☐ MemoryAlpha☐ None of the above
☐ Yes ☐ No	K2: Choose the answer that best fits the definition of a recursive function.
☐ I don't know	☐ A function that runs for an infinite time
P2: Are you willing to participate in a face to face video call interview?	✓ A function that calls itself☐ A function that does not require any inputs
 ☐ Yes I would be willing to take part in a face to face interview over a video call ☐ No I would not be willing to take part in a face to face interview over a video call 	 □ A function that does not have a return value □ A function that can be called from other functions □ I don't know
Section D (Demographics)	K3: Choose the answer that best fits the description of a compiler's function.

	☐ Hello World 10
☐ Refactoring code	☐ World Hello
☐ Connecting to the network	☑ dlroW olleH
☐ Aggregating user data	☐ I don't know
✓ Translating code into executable	- I don't know
instructions	Code Spinnet 2
	Code Snippet 2:
☐ Collecting user data	
☐ I don't know	var f = [];
	function testfunction (n)
K4: Which of these values would be the	{
most fitting for a Boolean?	if (n < 1)
•	return 0.1234;
□ "abcd"	if (0.98<=f[n])
□ 20	return f[n]*321;
☑ False	return f[n] =
	testfunction(n/2-1.234) * n;
□ "True"	}
☐ I don't know	<pre>console.log(Math.round(testfunction(12</pre>
	3)))
Code Snippet 1:	
	K6: Execute the above code in Node.js,
<pre>function f1(in){</pre>	what is the result?
var out = "";	What is the result.
var length = in.length;	
for(var i=length-1; i>=0; i){	.
out+= in[i];	Section A (Attention Check)
out+= in[i]; }	Section A (Attention Check)
}	
} return out;	When asked your favourite
}	
<pre>} return out; }</pre>	When asked your favourite programming language, answer "Java".
<pre>} return out; } function main(){</pre>	When asked your favourite programming language, answer "Java". A1: Based on the above text, what is
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- Must have programming skills
- Must be willing to take part in a video interview
- Please have Node.js installed, or access to Node.js, as you will be asked to run code.

You will be asked to return your spot if you do not meet the prescreening requirements.

About this Study

We have developed a tool to search for NPM packages and example code snippets, which also allows developers to install and try out these packages and code snippets in a REPL environment. Our tool is based on the Node.js REPL, the same one you can access using the 'node' command (See here for more information on the Node.js REPL: https://nodejs.dev/learn/how-to-use-the-no dejs-repl).

The aim of our study is to see how our tool aids Node.js developers in finding NPM packages and code snippets, compared to traditional editors and online search. The results of this study will be published in a research paper.

You can contact me, Brittany Reid, at brittany.reid@adelaide.edu.au, if you have any questions. I am a PhD student at the University of Adelaide.

Part 1 (This survey)

We are looking for Node.js developers to fill out a 2-5 minute survey, which will assess your suitability for a second study. The questions will ask about your programming experience, programming knowledge and ability to take part in a user study video call session. The details of the second study, part 2, are described

below. Suitable participants will be contacted through Prolific and invited to the second study, where you will schedule a session.

Part 2 (1 hour scheduled video call)

The second part of our study involves Node.js developers undertaking an hour long session where you will complete two simple programming tasks. Developers will be asked to complete a programming task using a basic editor and internet access, to find NPM packages online, and a second task using our tool. The sessions will take place remotely using AnyDesk and Skype. You will need to install this software and remote into a VM that has been set up for the session. Your session (audio and screen recording) will be recorded and used for research purposes.

Participants are asked to use their Prolific ID as their skype name if they prefer. You will not need to use a camera.

Part 2 Pay: £7.50/hr