

Chatbot Survey

Hi there! Hope you all are safe!

Please kindly read everything carefully.

We have developed chatbot that helps users to work with blockchain without any prior knowledge. Yes, you heard it right!! Blockchain is surely the next big thing. It has been integrated into various applications recently. One of the main reasons behind it is "Smart Contracts". Smart contracts are self-executed program codes that are hosted on a blockchain platform, to enforce agreements when conditions are met. However, writing smart contracts is challenging due to the lack of tools and experience in the field.

Hence, we have developed this chatbot, aiming to abridge this gap between users and blockchain. While working with the chatbot, you just have to answer the questions asked by your guide.

So, why have we asked you to come here? Since we have developed this research tool, we need to evaluate it. This is where we need your help. All you have to do is use the chatbot to generate smart contract and let us know of your experience via this survey. We have also asked you some questions to know about your background. Don't worry we will guide you through the whole process. We have also prepared tutorials for you which will help you understand the working of the chatbot as well as smart contracts.

Lastly, we would like to let you know that this survey can prove to be a huge stepping stone for blockchain technology. Therefore, we request you to provide us with constructive reviews which would help us to gain important insights and improve the framework.

Thank you for reading this far,
Please proceed.

* Required

Personal Information

1. Your name *

2. Your email address *

Programming Knowledge

3. Are you familiar with programming? *

Mark only one oval.

☐ Yes *Skip to question 7*

☐ No *Skip to question 4*

Programming Requirement

4. How many times have you encountered the requirement of programming while working? *

Mark only one oval.

☐ Never

☐ Occasionally

☐ Sometimes

☐ Often

5. What did you do when you encountered the need for programming? *

Check all that apply.

- ☐ Never needed programming
- ☐ Asked a friend for help who knew programming
- ☐ Abandoned it
- ☐ Tried to learn the programming language but couldn't do it

Other: ☐ _____

6. How helpful do you think a tool that will generate code from your instructions in English prove be? *

Mark only one oval.

	1	2	3	4	5	6	7	
Won't help much	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very helpful

Skip to question 12

Programming Depth

7. How many programming languages have you worked with? *

Mark only one oval.

- ☐ 1
- ☐ More than 1 but less than 5
- ☐ More than 5 but less than 10
- ☐ More than 10

8. Which programming languages do you use frequently for developing applications/systems? *

Check all that apply.

- ☐ C
☐ C++
☐ Python
☐ Java
☐ Go
☐ JavaScript
☐ MATLAB

Other: ☐ _____

9. Generally, how long does it take for you to feel comfortable with a new programming language? *

Mark only one oval.

- ☐ Less than 2 weeks
☐ 2 - 4 weeks
☐ 4 - 8 weeks
☐ More than 8 weeks

10. How troublesome is learning a new programming language for you? *

Mark only one oval.

	1	2	3	4	5	6	7	
A cakewalk	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very troublesome

11. How useful do you think a tool that can generate code from natural language prove to be? *

Mark only one oval.

	1	2	3	4	5	6	7	
Won't help much	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very useful

Skip to question 12

Blockchain Knowledge

12. Are you familiar with the concepts of blockchain? *

Mark only one oval.

- ☐ Yes Skip to question 13
- ☐ No Skip to question 18

Smart Contract Knowledge

13. In which of the fields of blockchain, do you think you have in-depth knowledge? *

Mark only one oval.

- ☐ I possess in-depth knowledge only in cryptocurrency Skip to question 18
- ☐ I possess in-depth knowledge only in smart contracts Skip to question 14
- ☐ I possess in-depth knowledge in smart contracts and other fields related to blockchain (like cryptocurrency, security, etc) Skip to question 14
- ☐ Other: _____

Smart Contract Depth

14. In how many languages can you write smart contracts? *

Mark only one oval.

- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4
- ☐ 5
- ☐ More than 5

15. Which tools/languages do you normally use to develop smart contracts? *

Check all that apply.

- ☐ Solidity
- ☐ Hyperledger Fabric
- ☐ Hyperledger Composer
- ☐ Microsoft Azure
- ☐ Truffle
- ☐ Ganache

Other: ☐ _____

16. What are the problems that you have faced while writing smart contracts? *

Check all that apply.

- ☐ Too many errors
- ☐ Completely new syntax
- ☐ Lack of community support

Other: ☐ _____

17. How important do you think a tool that can generate smart contract code from natural language prove to be? *

Mark only one oval.

	1	2	3	4	5	6	7	
Isn't necessary	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very important

[Skip to question 18](#)

Model-Driven Engineering Knowledge

18. Have you heard of Model-Driven Engineering? *

Mark only one oval.

- ☐ Yes
- ☐ No

Now, you have to test use the chatbot. Please read the instructions carefully.

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What you have to do?

Scroll to the bottom in the website.

1) Go through the "Use Case" once.

2) Try generating the smart contract in the "Test Case"

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Ignore the installation part if you have completed it.

Installation - For Linux Users

1) Use the "install.sh" file in installation folder

2) Open terminal and type - "sudo chmod +x ./install.sh". After this is completed, run the command -

Use the chatbot

"/install.sh".

The installation process is done.

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Video Tutorial

We will strongly encourage you to watch the complete video tutorial. This will help you to understand the working of smart contracts and also, how to use the chatbot to generate smart contracts. (If you are bored, run it with 2x speed:D)

Note: If you have issue with the chatbot, kindly refer to the video and follow the syntax used there.

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Running the chatbot

1) Use the "run.sh" file in installation folder

install.sh and run.sh must be in the same directory

2) Open terminal and type - "sudo chmod +x ./run.sh". After this is completed, run the command - "./run.sh".

3) Open a web browser and go to - localhost:5000/admin

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Using the chatbot

1) There are concepts and instructions given in the website. We will encourage you to go through it. If you have watched the video, many concepts and instructions have been covered.

2) Please try to be elaborate.

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Chatbot Survey

19. Were you able to generate the smart contract given in the test case? *

Mark only one oval.

☐ Yes

☐ No

20. The interaction with the chatbot was clear and understandable *

Mark only one oval.

	1	2	3	4	5	6	7	
Strongly disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

21. I have the resources necessary to use the chatbot *

Mark only one oval.

	1	2	3	4	5	6	7	
Strongly disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

22. The chatbot is compatible with other platforms I use *

Mark only one oval.

	1	2	3	4	5	6	7	
Strongly disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

23. How many times did you have to refer to the tutorial while interacting with the chatbot? *

Mark only one oval.

- ☐ Once
- ☐ More than once but less than five times
- ☐ More than five times but less than ten times
- ☐ More than ten times

24. How helpful was the video tutorial? *

Mark only one oval.

	1	2	3	4	5	6	7	
Didn't help much	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very helpful

25. What do you have to say about the amount of information that had to be typed for generating the code? *

Mark only one oval.

	1	2	3	4	5	
It was just right	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	It was too much

26. How many times did the chatbot respond in the wrong way? *

Mark only one oval.

- ☐ Once
- ☐ More than once but less than five times
- ☐ More than five times but less than ten times
- ☐ More than ten times

27. How would you rate the chatbot in terms of the interest instilled by the chatbot? *

Mark only one oval.

	1	2	3	4	5	6	7	
Very interesting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very boring

28. What were the reasons behind the chat being boring? *

Check all that apply.

- ☐ I didn't find chatting with the bot boring
- ☐ I had to type a lot
- ☐ I had to type the same things multiple times
- ☐ I faced many errors while interacting with the chatbot
- ☐ I couldn't understand what I was doing

Other: ☐ _____

29. How useful do you think the chatbot is? *

Mark only one oval.

	1	2	3	4	5	6	7	
Useless	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very useful

30. How good was the chatbot in giving some clarity about the working of smart contracts? *

Mark only one oval.

- ☐ I already knew about smart contracts before
- ☐ I didn't know anything about smart contracts and the chatbot gave a a lot of clarity about smart contract
- ☐ I didn't know anything about smart contracts and the chatbot gave only some clarity about smart contract
- ☐ I didn't know anything about smart contracts and I can't get a hang of it even after using the chatbot

31. How likely is it that you are going to use the chatbot in the future? *

Mark only one oval.

	1	2	3	4	5	6	7	
Very unlikely	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very likely

32. On a scale of 10, how good was your overall experience with the chatbot? *

Mark only one oval.

	1	2	3	4	5	6	7	8	9	10	
Very bad	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very good

33. Anything else that you would like to comment about your experience with the chatbot

34. Any suggestions to improve the chatbot

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