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slock.it
A Blockchains Company

PROGRAMMING TASK – USE CASE

The **Ethereum Name Service (ENS)** offers a secure and decentralised way to address resources both on and off the blockchain using simple, human-readable names. Detailed information you can find on the project's internet page:
https://ens.domains/

Please write a test application to investigate or list or visualize the ENS contract events of the past (e.g. the last 1 or 2 days) focussing in particular on the event for registered names:
NameRegistered (string name, bytes32 label, address owner, uint256 cost, uint256 expires)

The ethereum address of the ENS-Registrar Contract is: **0xF0AD5cAd05e10572EfcEB849f6Ff0c68f9700455**

You may use **any** language you feel fits best, ideally, this would have some type of GUI (Windows, Linux, Android, iOS or web).

What is decisive for our evaluation? Most import for our assessment is the quality of the code (not the amount of lines) – structure, meaningful use of technology, documentation, etc. We are particularly interested to learn how you test your program code.

We understand you are probably not an experienced blockchain expert yet (if you are, the better!) and have chosen a task achievable by anyone new to the space but experienced in software development. We are interested solely in becoming acquainted with your programming style, your ability to solve new problems and to verify the correctness of your solution.

Be creative! Impress us! Show us that you are an extraordinary developer and that you belong in our team!

NEXT STEPS

Please send your result inclusive source code to simon.jentzsch@slock.it with steffen.kux@slock.it in copy.

We look at every solution sent in. This may take some time. If we are convinced by your programming style and the result of your solution, we will invite you to a first interview to get to know you personally, to talk about your background and your experiences as a developer. There you will also have the opportunity to explain which technologies you have used and why, how you have tested your solution, etc.

SOME ADDITIONAL INFORMATION

Connection to the blockchain: The preferred way to connect to the blockchain is slock.it's minimal verification client **Incubed** (see https://slock.it/incubed). You might also use a gateway access like Infura or Cloudflare or you want to install an Ethereum-Client like Parity or Geth (or any other client) on your computer in order to run your own full node.

To access the contract and its information or to interact with it from within a program, there exist a lot of possible open source libraries for different languages like JavaScript, Java, Python, and many others.
We mostly use Javascript and our in3 library (see: **npm in3** and learn more details at **in3.readthedocs.io**). Using web3.js or other libraries is also fine.

With the mentioned documentation you find all the functions needed to do the task. For Java, Python, or other languages you'll find also a lot of examples and documentation in the internet.