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| |  | | --- | | **Marija Krivošić** | | 11:48 AM (16 minutes ago) |  |  |
| |  | | --- | | to me | | | |

Dear Petar,

For the purpose of this application, we first give out the candidates a task to be solved.

After its completion and submission it is reviewed by our DEV team and if it meets the requirements, we organize an interview, a dual - technical and competence. After that we make a decision on further steps.

We would kindly ask you to take a look at the task below and please return it to completion as instructed.

Please provide information to [careers@origin-trail.com](mailto:careers@origin-trail.com) email when you submit the task to github, also providing the link to your repository.

We would expect this to be completed not later than in 10 days from now, otherwise we would be discontinuing this application process.

Please be aware that we'd be focusing on candidates in the CET +/- 2hrs for the time being for operational reasons at this stage, so how you complete your task is pivotal for further process to make this exception.

Best, Marija

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TASK

Ethereum transactions crawler task

Create an application that will allow a user to view transaction data from the Ethereum blockchain associated with a specific wallet address **W** that the user inputs, starting with block **B**. The application should get information on:

* wallets (addresses) and
* amounts of ETH associated with transactions made to and from the given wallet **W** and
* show them in a simple human-readable way (ideally, through a web page).

The application should collect and display ALL transaction data starting from the given block **B**.

**Example**:

If a user requests to view transactions associated with the address ***0xaa7a9ca87d3694b5755f213b5d04094b8d0f0a6f*** from block ***9000000*** to the current block, your application should be able to crawl and visualize all transaction data (addresses that have sent and received tokens from the address *0xaa7a9ca87d3694b5755f213b5d04094b8d0f0a6f*, and how much ETH was used for a given transaction) in that period of time.

**For bonus points:**

* Given a date in YYYY-MM-DD format, the program should return the exact value of ETH that was available on the given address at YYYY-MM-DD 00:00 UTC time.
* Do the same task above to include tokens amounts (other than ETH)

**Instructions**

* Use any technology you would like/are familiar with (language, database)
* Please include instructions on how to run the project together with the code (so our team members can run it in one of our environments)
* A list of officially available ethereum clients can be found here:<http://ethdocs.org/en/latest/connecting-to-clients/>. Other implementations can be found on the web. Additionally, you can utilize an API from a service such as<https://etherscan.io/apis> or register an account on [infura.io](http://infura.io/) service to access data from the blockchain directly.

See<https://etherscan.io/> for an example of how data can be visualized.

Please, put your resolution to the private github repository and share it with *marijakrivosic*.

**Marija Krivošić**

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Operations Manager

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