

Back-end developer tech assignment

In this tech assignment your task is to create a server for blockchain indexes.

Base item is Group (Solidity smart contract code):

```
struct Group {  
    string name;  
    uint256[] indexes;  
}
```

Group contains a list of ids. Each id represents index:

```
struct Index {  
    uint256 id;  
    string name;  
    uint256 ethPriceInWei;  
    uint256 usdPriceInCents;  
    uint256 usdCapitalization;  
    uint256 percentageChange;  
}
```

Data you should get from a smart contract, which is deployed on **Ropsten** (ETH test network) using **web3.js** (<https://github.com/ethereum/web3.js/>). For connecting to a smart contract you have to create your own Infura API key.

Contract ABI's serve as an interface to the smart contract:

<https://github.com/HvrlK/abi-contract>

Contract address is **0x4f7f1380239450AAD5af611DB3c3c1bb51049c29**

You should implement next methods:

GET groups/ (**getGroupIds** method in smart contract)

GET groups/{groupId} (**getGroup(groupId)** method in smart contract)

GET indexes/{indexId} (**getIndex(indexId)** method in smart contract)

GET blocks/{blockId|"latest"} (get block from **Ropsten** test network)

Use the **NestJS** framework. Create swagger documentation.

When the task is finished, push code to your github and provide a link for us.

If you have any questions - feel free to write to us.

Good luck!