

Create a Nest.js application that allows an arbitrary client to get information from two endpoints:

- `/gasPrice`
- `/return/:fromTokenAddress/:toTokenAddress/:amountIn`

GasPrice

As a client, I wish to receive recent gas price on Ethereum network using `/gasPrice`. The response time should be not more than 50ms. To meet the customer's requirements, you can make any technical decisions.

UniswapV2

As a client, I wish to receive an estimated output amount by trading source token into destination token with the exact input amount on UniswapV2 by using `/return/:fromTokenAddress/:toTokenAddress/:amountIn`

Requirements:

- You cannot use on-chain functions to get return amount. You can only get state metadata for off-chain calculation (e.g. balances)
- You need to implement the math on backend side
- You can only use ethers or web3 libraries to communicate with blockchain and perform off-chain calculations

Resources:

1. You can get Ethereum node endpoint to get an information about gas price and balances from one of these providers (choose any): <https://www.infura.io/>, <https://www.alchemy.com/>, <https://www.quicknode.com/>
2. Libraries for convenient communication with blockchain node: <https://docs.ethers.org/v5/> or <https://web3js.readthedocs.io/en/v1.10.0/>
3. UniswapV2 factory address: 0x5C69bEe701ef814a2B6a3EDD4B1652CB9cc5aA6f

Evaluation criteria:

- Clean code, which is self documented
- Code structure, design
- Tests, documentation
- Your application should works

During the face to face interview you will have the opportunity to explain your design choices and provide justifications for the parts that you omitted

Good luck!