

Fullstack Engineer Technical Test

Building a NodeJS /VueJS Web Application with REST API backend.

One of the upcoming products for StakeWith.Us is a block explorer for Tendermint Blockchains. You will design and code a simple REST API web server with nodeJS and a frontend with VueJS to display a list of validators.

POST <http://localhost:3000/api/v1/validators> (CREATE)

- When posted with the sample data, it should
 - Add in a new validator if
 - The public key / address does not exist
 - Update the validator
 - The voting power changed, and blockHeight is higher than the previous data entry

GET <http://localhost:3000/api/v1/validators> (READ ALL)

GET http://localhost:3000/api/v1/validators/<validator_address> (READ ONE)

Required Fields:

- validatorAddress
- publicKey
- validatorIndex
- votingPower

Sample Data:

<https://s3-ap-southeast-1.amazonaws.com/sws-recruiting/backend-engineer/rpcValidatorSet.json>

Sample Theme:

<https://github.com/puikinsh/notika>

Sample Product:

<https://cosmos.bigdipper.live/validators>

Required Frameworks

- Nodejs >= 15.10.0 or Express >= 4.0.0
- PostgreSQL
- VueJS
- VueRouter
- Vuex

Deliverables

- Source code in a Github Repository including integration test files