UDACITY

Sair

‹ Return to "Blockchain Developer" in the classroom

DISCUSS ON STUDENT HUB

Build a Private Blockchain Notary Service

REVISÃO | REVISÃO DE CÓDIGO 8 | HISTORY

Meets Specifications

Good job! 👏

You meet all specifications here. 💪
Congratulations! 🎊

Blockchain ID validation routine

Use the URL for the endpoint: `http://localhost:8000/requestValidation`
The request should contain:

```
{ "address":"19xaiMqayaNrn3x7AjV5cU4Mk5f5prRVpL" }
```

The response should contain: `walletAddress`, `requestTimeStamp`, `message` and `validationWindow`. It must be returned in a JSON format:

```
{
    "walletAddress": "19xaiMqayaNrn3x7AjV5cU4Mk5f5prRVpL",
    "requestTimeStamp": "1544451269",
    "message": "19xaiMqayaNrn3x7AjV5cU4Mk5f5prRVpL:1544451269:starRegistry",
    "validationWindow": 300
}
```

Message format = [walletAddress]:[timeStamp]:starRegistry

The request must configure a limited validation window of five minutes.

When re-submitting within validation window, the validation window should reduce until it expires.

✓ Response contains message details, request timestamp, and time remaining for validation window
✓ User obtains a response in JSON format with a message to sign
✓ Message format is `[walletAddress]:[timeStamp]:starRegistry`
✓ The request is configured with a limited validation window of five minutes
✓ When re-submitting within validation window, validation window should reduce until it expires

Use the URL for the endpoint:
`http://localhost:8000/message-signature/validate`
The request should contain:

```
{
"address":"19xaiMqayaNrn3x7AjV5cU4Mk5f5prRVpL",
 "signature":"H8K4+1MvyJo9tcr2YN2KejwvX1oqneyCH+fsUL1z1WBdWmswB9bijeFfOfMqK68kQ5RO6ZxhomoXQG3fkLaBl+Q="
}
```

Verify that the time window of 5 minutes didn't expired.

The endpoint response should look like:

```
{
    "registerStar": true,
    "status": {
        "address": "19xaiMqayaNrn3x7AjV5cU4Mk5f5prRVpL",
        "requestTimeStamp": "1544454641",
        "message": "19xaiMqayaNrn3x7AjV5cU4Mk5f5prRVpL:1544454641:starRegistry",
        "validationWindow": 193,
        "messageSignature": true
    }
}
```

Upon validation, the user is granted access to register a single star.

✔️ Web API post endpoint validates message signature with JSON response
✔️ Upon validation, the user is granted access to register only one `star` for each validation

Star registration Endpoint

Use the Url for the endpoint:
`http://localhost:8000/block`
The request should contain:

```
{
    "address": "19xaiMqayaNrn3x7AjV5cU4Mk5f5prRVpL",
    "star": {
                "dec": "68° 52' 56.9",
                "ra": "16h 29m 1.0s",
                "story": "Found star using https://www.google.com/sky/"
            }
}
```

The Star object and properties are stored within the body of the block of your Blockchain Dataset.

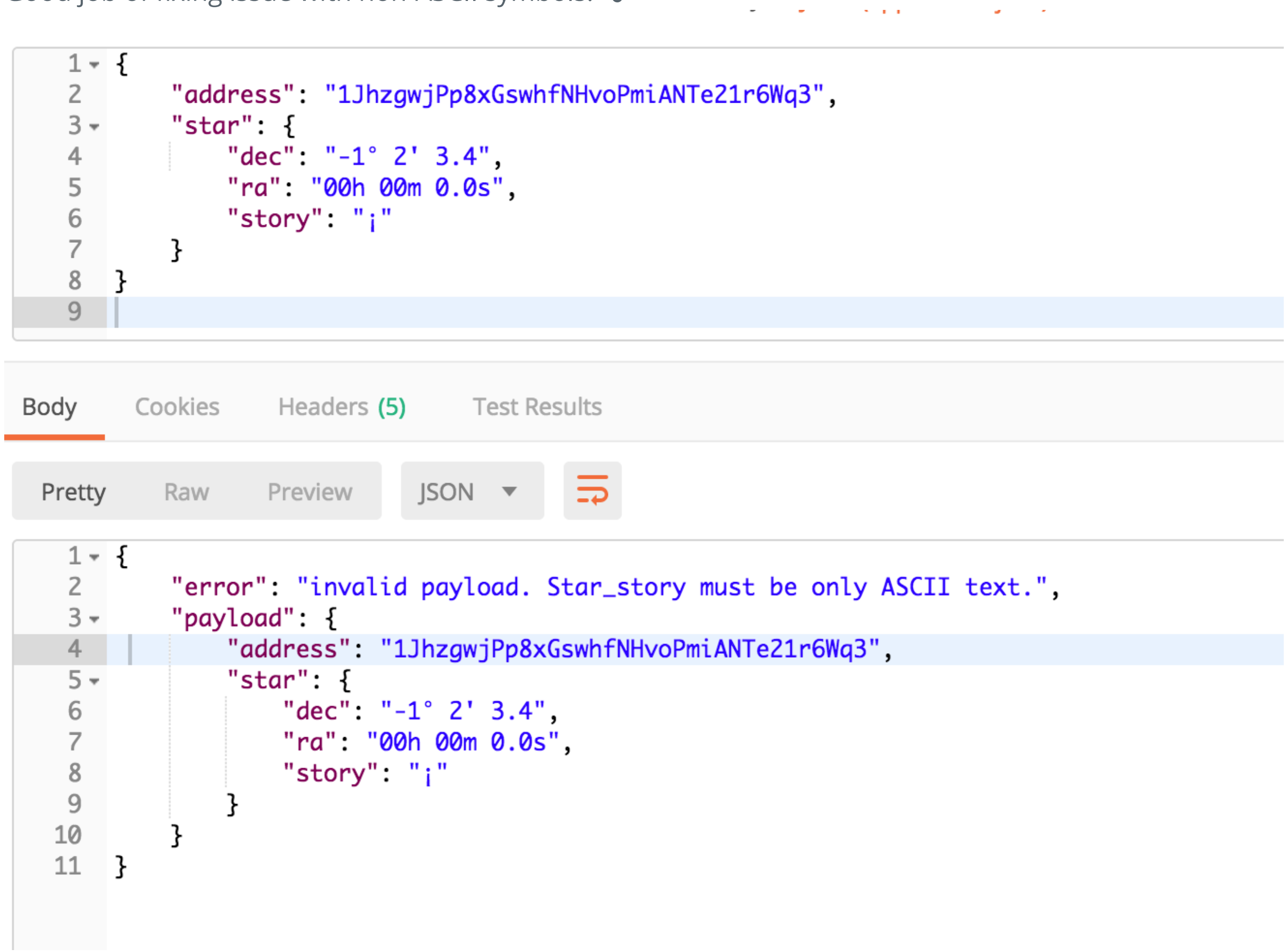
Verify that the `"address"` that send the Star was validated in the previous steps, if not respond back with an error.

The response will look like:

```
{
    "hash": "8098c1d7f44f4513ba1e7e8ba9965e013520e3652e2db5a7d88e51d7b99c3cc8",
    "height": 1,
    "body": {
        "address": "19xaiMqayaNrn3x7AjV5cU4Mk5f5prRVpL",
        "star": {
            "ra": "16h 29m 1.0s",
            "dec": "68° 52' 56.9",
            "story": "466f756e642073746172207573696e672068747470733a2f2f7777772e676f6f676c652e636f6d2f736b792f"
        }
    },
    "time": "1544455399",
    "previousBlockHash": "639f8e4c4519759f489fc7da607054f50b212b7d8171e7717df244da2f7f2394"
}
```

✓ `Star` object and properties are stored within the body of the block
✓ `Star` 's properties include the coordinates
✓ `Star` 's properties include encoded story
✓ `Star` 's `story` supports only ASCII text
✓ `Star` 's `story` limited to 500 bytes
✓ `Star` 's `story` hex encoded
✓ Checked that request body contains `star`
✓ Checked that request body contains `dec` and `ra` coordinates
✓ Checked that request body contains `address`
✓ Checked that request body contains `story`

Good job of fixing issue with non-ASCII symbols! 👋



```
{
    "address": "1JhzgwjPp8xGswhfNHvoPmiANTe21r6Wq3",
    "star": {
        "dec": "-1° 2' 3.4",
        "ra": "00h 00m 0.0s",
        "story": "¡"
    }
}

```

```
{
    "error": "invalid payload. Star_story must be only ASCII text.",
    "payload": {
        "address": "1JhzgwjPp8xGswhfNHvoPmiANTe21r6Wq3",
        "star": {
            "dec": "-1° 2' 3.4",
            "ra": "00h 00m 0.0s",
            "story": "¡"
        }
    }
}
```

Star Lookup

Use the URL:

```
http://localhost:8000/stars/hash:[HASH]
```

The response includes entire star block contents along with the addition of star story decoded to ASCII.

```
{
  "hash": "a59e9e399bc17c2db32a7a87379a8012f2c8e08dd661d7c0a6a4845d4f3ffb9f",
  "height": 1,
  "body": {
    "address": "142BDCeSGbXjWKaAnYXbMpZ6sbrSAo3DpZ",
    "star": {
      "ra": "16h 29m 1.0s",
      "dec": "-26° 29' 24.9",
      "story": "466f756e642073746172207573696e672068747470733a2f2f7777772e676f6f676c652e636
f6d2f736b792f",
      "storyDecoded": "Found star using https://www.google.com/sky/"
    }
  },
  "time": "1532296234",
  "previousBlockHash": "49cce61ec3e6ae664514d5fa5722d86069cf981318fc303750ce66032d0acff3"
}
```

✓ Response includes entire `star` block contents
✓ `Star` 's `story` also decoded to ASCII into the `storyDecoded` field

Use the URL:
`http://localhost:8000/stars/address:[ADDRESS]`

The response includes entire star block contents along with the addition of star story decoded to ASCII.

This endpoint response contained a list of Stars because of one wallet address can be used to register multiple Stars.

Response:

```
[
  {
    "hash": "a59e9e399bc17c2db32a7a87379a8012f2c8e08dd661d7c0a6a4845d4f3ffb9f",
    "height": 1,
    "body": {
      "address": "142BDCeSGbXjWKaAnYXbMpZ6sbrSAo3DpZ",
      "star": {
        "ra": "16h 29m 1.0s",
        "dec": "-26° 29' 24.9",
        "story": "466f756e642073746172207573696e672068747470733a2f2f7777772e676f6f676c652e636f6d2f736b792f",
        "storyDecoded": "Found star using https://www.google.com/sky/"
      }
    },
    "time": "1532296234",
    "previousBlockHash": "49cce61ec3e6ae664514d5fa5722d86069cf981318fc303750ce66032d0acff3"
  },
  {
    "hash": "6ef99fc533b9725bf194c18bdf79065d64a971fa41b25f098ff4dff29ee531d0",
    "height": 2,
    "body": {
      "address": "142BDCeSGbXjWKaAnYXbMpZ6sbrSAo3DpZ",
      "star": {
        "ra": "17h 22m 13.1s",
        "dec": "-27° 14' 8.2",
        "story": "466f756e642073746172207573696e672068747470733a2f2f7777772e676f6f676c652e636f6d2f736b792f",
        "storyDecoded": "Found star using https://www.google.com/sky/"
      }
    },
    "time": "1532330848",
    "previousBlockHash": "a59e9e399bc17c2db32a7a87379a8012f2c8e08dd661d7c0a6a4845d4f3ffb9f"
  }
]
```

✓ Response is included entire `star` block contents
✓ `Star` 's `story` also decoded to ASCII into the `storyDecoded` field
✓ Multiple stars might be registered to a single blockchain identity and response support multiple `star` blocks

Use the URL:
`http://localhost:8000/block/[HEIGHT]`

The response includes entire star block contents along with the addition of star story decoded to ASCII.

```
{
  "hash": "a59e9e399bc17c2db32a7a87379a8012f2c8e08dd661d7c0a6a4845d4f3ffb9f",
  "height": 1,
  "body": {
    "address": "142BDCeSGbXjWKaAnYXbMpZ6sbrSAo3DpZ",
    "star": {
      "ra": "16h 29m 1.0s",
      "dec": "-26° 29' 24.9",
      "story": "466f756e642073746172207573696e672068747470733a2f2f7777772e676f6f676c652e636f6d2f736b792f",
      "storyDecoded": "Found star using https://www.google.com/sky/"
    }
  },
  "time": "1532296234",
  "previousBlockHash": "49cce61ec3e6ae664514d5fa5722d86069cf981318fc303750ce66032d0acff3"
}
```

✓ Response includes entire `star` block contents
✓ `Star`'s `story` also decoded to ASCII into the `storyDecoded` field

BAIXAR PROJETO

8 COMENTÁRIOS DA REVISÃO DE CÓDIGO ›

RETORNAR