Bank API

All endpoints require the NOOB_TOKEN in the header except for /api/noob/health

and if the request does not come from the noob server it requires a token

you get this token through /user/auth this token is required to make the request and should be in the header as "ATM_TOKEN"

the issued ATM TOKEN should be a JWT token the JWT payload should contain the user_id, the cards and their ibans

```
"user_id": 123456789
"cards": {
    "prive": NLxxABNAxxxx
    "werk": NLxxABNAxxxx
}
```

the JWT token should have an expiry time of 5 to 15 minutes

all these checks can be done in the endpoints but the smartest way would be to use an middleware that sits between the endpoint and the request

if no token or the wrong token is given then you should always throw 401 HTTP status

resources

https://stackoverflow.com/questions/8499633/how-to-display-base64-images-in-html (https://stackoverflow.com/questions/8499633/how-to-display-base64-images-in-html)

https://jwt.io/ (https://jwt.io/)

https://www.twilio.com/docs/glossary/totp (https://www.twilio.com/docs/glossary/totp)

ENDPOINTS

USER

/user/fetch

GET

REQUEST

```
{
    "user_id": 123456789
}
```

RESPONSE:

```
{
  "firstname": "Henk",
  "preposition": "van der",
  "lastname": "Linden",
  "created_at": 05-02-2024:11:24:55,
  "date_of_birth": 12-05-1978,
  "email": "henkvanderlinden@hotmail.com",
  "phone": 0614367109,
  "iban": {
    "prive": NLxxABNAxxxxx,
    "werk": NLxxABNAxxxxxx
  },
  "user_id": 123456789,
  "balance": 500
}
```

/user/create

REQUEST

```
{
  "firstname": "Henk"
  "preposition": "van der"
  "lastname": "Linden"
  "password": "salted & hashed"
  "email": "henkvanderlinden@hotmail.com"
  "phone": 0614367109
}
```

RESPONSE

```
{
    "user_id": 123456789
    "iban": NLxxABNAxxxx
    "totp_qr": iVBORw0KGgoAAAANSUhEUgAAAWgAAAFCCAYAAADc0keFAAAMP2lDQ1BJQ0MgUHJvZmlsZQAASImVVwdYU8kWnluSkJDQQpcSehNEpASQEkILIL0INkISI
    "status": "created"
}
```

the TOTP QR is an base64 encoded image used to add the 2factor authentication to an auth app like Google Authenticator

to get the image you just decode the image or in the browser you can prefix it with "data:image/png;base64," in html

https://stackoverflow.com/questions/8499633/how-to-display-base64-images-in-html (https://stackoverflow.com/questions/8499633/how-to-display-base64-images-in-html)

/user/delete

POST

REQUEST

```
{
  "user_id": 123456789,
  "password": "salted & hashed"
}
```

RESPONSE:

```
"status": "deleted"
```

/user/auth

POST

REQUEST

```
{
  "user_id": 123456789,
  "password": "salted & hashed",
  "totp": 628374
}
```

RESPONSE

```
{
    "status": "succeeded"
    "token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1c2VyX2lkIjoiMTIzNDU2Nzg5IiwiaWJhbiI6IiIsImlhdCI6MTUxNjIzOTAyMn0._X7E1onfGRFdWT
}
```

Balance

/balance/fetch

REQUEST

```
{
  "user_id": 123456789,
}
```

RESPONSE:

```
{
  "user_id": 123456789,
  "cards": {
    "prive": {
        "iban": "NLxxABNAxxxx"
        "balance": 500
    }
    "werk": {
        "iban": "NLxxABNAxxxx"
        "balance": 500
    }
  }
}
```

/balance/fetch

GET

REQUEST

```
{
    "user_id": 123456789
    "iban": "NLxxABNAxxxx"
}
```

RESPONSE

```
{
  "user_id": 123456789,
  "balance": 500
}
```

/balance/add

POST

REQUEST

```
{
    "user_id": 123456789
    "iban": "NLxxABNAxxxx"
    "amount": 500
}
```

RESPONSE

```
{
    "balance": 1000
}
```

/balance/remove/

POST

REQUEST

```
{
    "user_id": 123456789
    "iban": "NLxxABNAxxxx"
    "amount": 200
}
```

RESPONSE

```
{
    "balance": 800
}
```

Noob

/api/noob/health

[https://gitlab.cmi.hro.nl/technische-informatica/vakken/project-3-4-tinprj0x-34/noob/-/wikis/API (https://gitlab.cmi.hro.nl/technische-informatica/vakken/project-3-4-tinprj0x-34/noob/-/wikis/API)](https://gitlab.cmi.hro.nl/technische-informatica/vakken/project-3-4-tinprj0x-34/noob/-/wikis/API)

```
    "user_id": 123456789
    "iban": "NLxxABNAxxxx"
    "amount": 200
```