

API Documentation

Description of the APIs:

A project has been developed for registered customers to request their respective credit card numbers. A user can login and request for a credit card number to be displayed. However, there is a security requirement that credit card numbers should not be displayed if the incoming requests are tampered in anyway. For this reason, JSON Web Tokens(JWT) are used to implement the authorization.

Versions available:

There are 3 versions of API end points available with the exact same functionality, but with different JWT implementations.

`http://<ipaddress>/v1/`

`http://<ipaddress>/v2/`

`http://<ipaddress>/v3/`

User Accounts:

Account 1

`securestore:securestore`

Account 2:

`admin:admin`

Login Request:

Mandatory Headers:

Sample HTTP Request:

```
{
  "name": "login",
  "param": {
    "user": "securestore",
    "pass": "securestore"
  }
}
```

```
HTTP/1.1 200 OK
Date: Sun, 08 Apr 2030 22:35:01 GMT
Server: Apache/2.4.18 (Ubuntu)
Content-Length: 555
Content-Type: application/json
```

```
{
  "response": {
    "status": 200,
    "result": {
      "token": "eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiJ9.eyJpYXQiOiJlODYzNTY1MDEsImV4IjoiImxvY2FsaG9zdCI6ImV4cCI6MTU4NmJmM2NTUwMSwidXNlcklkIjoic2VjdXJlc3RvcmluIjoiLCJpc0FkbWluIjoizmFsc2UifQ.RDb9tj2W5Pz1EpmXCKXVVE1iBIC2HOSz3-524oc024Q0hM90vYGlzHsI_uWff2fpm1fy6cIHih7ZklCarxdm_2L1l60uNd6z4YuCWYWLf8NAl1pQmAeji_wPXadUeRWlREOuKv72av_J78x0WH80mr8zPoZPhZzNw8HexRrIi5F0wRHCmhAZnz1wWxu8Puafu_P-4e3dPeE752VLFBcS3Xx0eCGv9L1ABkxts8Gv8xbPt-xE-tdtypAe-Vn-ukm9Q1HfAB_-1q_SQ3QddkDWbNnMGxSJC5-p5mszQnsiITf5yN5LNf3MRq-hGnxbXacndGfBnu1-C1RctVjFfLnKw"
    }
  }
}
```

Requesting credit card information:

POST http://<ipaddress>/v3/

Mandatory Headers:

Content-Type: application/json
Authorization: Bearer <JWT>

Sample HTTP Request:

```
POST /v3/ HTTP/1.1
Host: 192.168.1.79
Content-Type: application/json
Authorization: Bearer
eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiJ9.eyJpYXQiOiJlODYzNTY1MDEsImIzcyI6ImxvY2FsaG9zdCI6ImV4cCI6MTU4NjM2NTUwMSwidXNlcklkIjoic2VjdXJlc3RvcmlCjpc0FkbWluIjoizMfsc2UifQ.RDb9tj2W5PzlEpmXCKXVVE1iBIC2HOSz3-524oc024Q0hM90vYGLzHsI_uWfF2fpmlfy6cIHih7ZklCarxdm_2L1l60uNd6z4YuCWYWLf8NA1lpQmAeji_wPXadUeRwlREOuKv72av_J78x0WH80mr8zPoZPhZzNw8HexRrIi5FOWRHCmhAZnzlwWxu8Puafu_P-4e3dPeE752VLFBcS3Xx0eCGv9LlABkxts8Gv8xbPt-xE-tdtypAe-Vn-ukm9QlHfAB_-1q_SQ3QddkDWbNnMGxSJC5-p5mszQnsiITf5yN5LNf3MRq-hGnxbXacndGfBnu1-C1RctVjFfLnKw
Content-Length: 39
```

```
{
  "name": "getccinfo",
  "param": {
  }
}
```

Sample HTTP Response:

```
HTTP/1.1 200 OK
Date: Sun, 08 Apr 2030 22:35:01 GMT
Server: Apache/2.4.18 (Ubuntu)
Content-Length: 97
Content-Type: application/json
```

```
{"response":{"status":200,"result":{"user":"securestore","creditcardnumber":"5105105105105100"}}
```