

## MINTYN CODING TEST

We want to give our customers the best experience possible. So we should inform them about the details of his/her card like:

- valid/not valid
- the scheme (i.e. VISA, MASTERCARD or AMEX)
- the bank when it is available.

To do so, you should create a simple Springboot microservice that will understand the following

call and response structure:

```
GET ../card-scheme/verify/ 5342123453 ...
```

```
{
  "success": true,
  "payload": {
    "scheme": "visa",
    "type": "debit",
    "bank": "UBS"
  }
}
```

#Number of hits

```
GET ../card-scheme/stats?start=1&limit=3
```

```
{
  "success": true,
  "start": 1,
  "limit": 3,
  "size": 133,
  "payload": {
    "11111": "1",
    "234233": "3",
    "545451": "5"
  }
}
```

To gather this data you should use a 3rd party API, such as: <https://binlist.net>.

Consume the service using WebClient http library in spring. The endpoints should be protected, so a simple signup and login feature should be implemented for the customers using the services.

### Topics to take into account:

- Try to show your OOP skills
- Database modelisation, using JPA or ORM
- Code standards/clean code
- Software patterns
- Performance and number of requests to the 3rd party API
- Unit tests