## Homework

You are required to develop backend side of <https://nomre.bakcell.com> site where customers can search phone numbers (hereinafter MSISDN) according to specific pattern and reserve it.

## Non-Functional Requirements

* Code has to be in a Git repository
* Java 8+ programming language
* Spring Boot
* Build scripts
* Unit and integration tests
* App and tests can be executed without installing extra dependencies
* Docker-compose or similar technology could be used to spin-up test dependencies
* README file describing how to compile, run tests and run application

## Functional Requirements

Each MSISDN belongs to some category. Here is the list of possible categories:

SIMPLE\_99, NICE\_LOW\_55, NICE\_HIGH\_55, SILVER\_99, GENERAL, BRONZE\_99, PLATINUM\_99, GOLD\_99

Customers can search according to following criteria

* Provide specific MSISDN category or search on all of them
* Provide search pattern for example: 55XXX1985 or 99XX123XX

After searching customer can reserve the MSISDN. During reservation he/she should provide his/her personal phone number. One customer can reserve maximum 5 MSISDNs per day.

One MSISDN can be reserved for 5 hours.

Please import sample data into your database.

Basically you will have 3 REST APIs.

1. Import sample data into database
2. Search MSISDN
3. Reserve MSISDN

Please provide a Postman script to demonstrate the API usage.