It is a restful service developed on SpringBoot. And Database is MySQL.

Support:

1. Login and simple token (Springboot+ JWT + AuthenticationInterceptor)
   1. Method with @UserLoginToken must be done token authorization with default username “test/password”
   2. Method with @PassToken can pass without any token authorization
2. Simple Audit (by AuditingEntityListener)

Will insert create\_by and create\_date with a new record inserted to DB

1. Common exception (@RestControllerAdvice) which will transfer inter system runtime exception to a customer faced exception and status code is 100
2. SpringBoot JPA to persistent record to db
3. UT:
   1. TestEntityManager and @SpringBootTest to test DB operation
   2. Mockito to UT
   3. WebMVC to do test from beginning to end
4. Docker a mysql and start it

Graphical user interface, text

Description automatically generated

1. Create a table

|  |
| --- |
| use test;  CREATE TABLE IF NOT EXISTS record(record\_id INT UNSIGNED AUTO\_INCREMENT,record\_type VARCHAR(100) NOT NULL,  device\_id VARCHAR(40) NOT NULL,event\_date\_time DATE,fieldA VARCHAR(100),fieldB VARCHAR(100),fieldC VARCHAR(100)  create\_by VARCHAR(100) not null, create\_date timestamp not null, PRIMARY KEY (record\_id))  ENGINE=InnoDB;  alter TABLE record ADD CONSTRAINT uk UNIQUE (record\_type,device\_id, event\_date\_time); |

1. Git clone it from github

> Git clone <https://github.com/ArthurGao/spring_mysql_rest.git>

1. >cd spring\_mysql\_rest

>mvn install

Will be compiled and run UT

Text

Description automatically generated

1. Start by java or eclipse

Graphical user interface, text, application

Description automatically generated

1. Post man (didn’t use curl and they are same thing)
   1. Login and get token (http://localhost:8080/login)

Graphical user interface, text, application, email

Description automatically generated

B. Copy token to add record (http://localhost:8080/record)

Graphical user interface, application

Description automatically generated

Run post, get responseGraphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

And new record is in MySQL,

Graphical user interface, application

Description automatically generated

And create\_by and create\_date is also inserted.

If run it again, that means duplicated record tried to insert, got error

Graphical user interface, text, application, email

Description automatically generated

Here should give different message from different exception such as “Can’t insert duplicated record”