

## USERS CREDENTIALS SERVICE

This service runs on port **8019**.

This service allows to manage users. It contains CRUD operations like **add** or **get**. Information are returned with **REST API**.

REST API are located in **UserController.java** class.

- **getAllUser( )** → <http://localhost:8019/api/users/get/all>

```
[
  {
    "userid": "Felice",
    "password": "01234",
    "active": true,
    "role": "USER"
  },
  {
    "userid": "Admin",
    "password": "87960",
    "active": true,
    "role": "ADMIN"
  }
]
```

---

- **getUserByUserID( )** → <http://localhost:8019/api/users/get/user/{userID}>

```
{
  "code": "200 ok",
  "message": "user Felice found"
}
```

---

- **addNewUser( )** → <http://localhost:8019/api/add>

```
[
  {
    "userid": "Felice",
    "password": "01234",
    "active": true,
    "role": "USER"
  }
]
```

---

- **addNewUsers( )** → <http://localhost:8019/api/users/add>

```
[
  {
    "userid": "Felice",
    "password": "01234",
    "active": true,
    "role": "USER"
  },
  {
    "userid": "Admin",
    "password": "87960",
    "active": true,
    "role": "ADMIN"
  }
]
```

---

Other methods returns user model to manage application security and in fact are invoked by **CustomUserDetailsService** with **RestTemplate**.

- **fetchUserById( )** → <http://localhost:8019/api/users/fetch/user/{userId}>
- **fetchUsers( )** → <http://localhost:8019/api/users/fetch/users>

## **STUDENTS WEB SERVICE**

This service runs on port **8080**.

This service allows to manage students. It contains CRUD operations and information are returned with **REST API**.

All endpoints/APIs are protected by **Spring Security** framework and then it is necessary to provide user credentials (Basic Auth, Bearer Token etc... )

Authorizations and roles are specified in **WebSecurityConfiguration** class.

Users data are retrieved by **CustomUserDetailsService** class which uses rest template to invoke users credentials service Rest APIs.

REST API are located in **StudentController.java** class.

■ **getStudents()** → <http://localhost:8080/api/students/get/all>

■ **addStudent()** → <http://localhost:8080/api/students/post/student>

{	Basic Auth	
...	Username:	Admin
}	Password:	87960

■ **getStudentByID()** → <http://localhost:8080/api/students/get/student/id/{id}>

{	Basic Auth	
"id": 61270,	Username:	Felice
"name": "Filippo",	Password:	01234
"surname": "Angrisani",		
"birthdate": "1994-06-02T22:00:00.000+00:00",		
"university": "Salerno",		
"active": true		
}		