# **BRIDGE BATCH TEST**

Kunal Bandooni kunal.bandooni@wissen.com

# **QUESTION:**

<u>For Student</u>: Perform the CRUD operations on the given domain. Also add functionality to provide login and register the user. You need to have User table, once the user registers, this information should go to User Table. When the user provides a Username and Password for Login, the system should provide as Valid user or Invalid user.

- 1. Controller register, login
- 2. Pojo extra
- 3. Repository. extra
- 4. Application.properties

# **OUTPUT AFTER THE CODE**

# CODE:

#### CONTROLLER

```
f U UserRepository.java f U Controller.java 	imes f U User.java
            ackage com.example.demo.Controller;
    1 package com.cxa...,
2 |
30 import java.util.List;
   20 @RestController
21 public class Controller {
                @Autowired
UserRepository userObject;
                // Method to add new User
@PostMapping(value="/register")
public String register(@RequestBody User newUser) {
    userObject.save(newUser);
    return "Added New User!! :D";
                // Method to login with registered-user only
@GetMapping(value="/login")
public String login(@RequestBody User user) {
   Optional<User> userOptional = userObject.findById(user.getUsername(), user.getPassword());
                       if(userOptional.isPresent())
    return "Welcome User!\nGood to see you back!! =D";
                @Autowired
StudentRepository studentObject;
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                  @GetMapping(value="/viewAll")
public Object getAllStudents() {
    List<Student> list = studentObject.getAllStudents();
                          System.out.print("Student Details: ");
for(Student p : list)
                          System.out.print(p);
return list;
                  // GET STUDENT BY ID
@GetMapping(value="/view/{id}")
public Student getStudentById(@PathVariable int id) {
    System.out.print("Student Detail with id as " + id + " : ");
    Student p = studentObject.getStudentById(id);
}
                  // ADDING NEW STUDENT RECORDS

@PostMapping(value="/add")
nublic String addStudent(@RequestBody Student newStudent) {
                           return "Added Student!! :D";
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                  @PutMapping(value="/update")
public String updateRecord(@RequestBody Student student) {
                         Optional<Student> studentOptional = studentObject.findById(student.getId());
                           if(studentOptional.isPresent()) {
   Student toUpdate = studentOptional.get();
                                   toUpdate.setName(student.getName());
toUpdate.setStandard(student.getStandard());
toUpdate.setDateOfBirth(student.getDateOfBirth());
toUpdate.setBloodGroup(student.getBloodGroup());
```

# **POJO**

#### **USER**

```
☑ Student.java × ☑ User.java  

Ø application.properties

                                                                                        UserRepository.java

☑ StudentRepository.java

   1 package com.example.demo.Student;
   30 import jakarta.persistence.Entity;□
 9 @Table(name="student_details")
10 public class Student {
             @Id
@Column(name="id")
private int studentId;
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            @Column(name="name")
private String name;
             @Column(name="standard")
private int standard;
             @Column(name="date_of_birth")
String dateOfBirth;
             @Column(name="blood_group")
private String bloodGroup;
             public Student(int id, String name, int standard, String dob, String bloodGroup) {
    this.studentId = id;
    this.name = name;
    this.standard = standard;
    this.dateOfBirth = dob;
    this.bloodGroup = bloodGroup;
}
          // Get methods
public int getId() {
    return this.studentId;
}
           public String getName() {
    return this.name;
}
           public int getStandard() {
    return this.standard;
}
           public String getBloodGroup() {
    return this.bloodGroup;
            public void setDateOfBirth(String dob) {
    this.dateOfBirth = dob;
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```

# **REPOSITORIES**

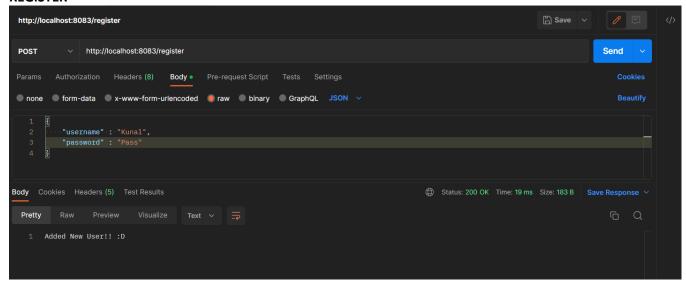
# **USER REPOSITORY**

#### STUDENT REPOSITORY

#### **APPLICATION.PROPERTIES**

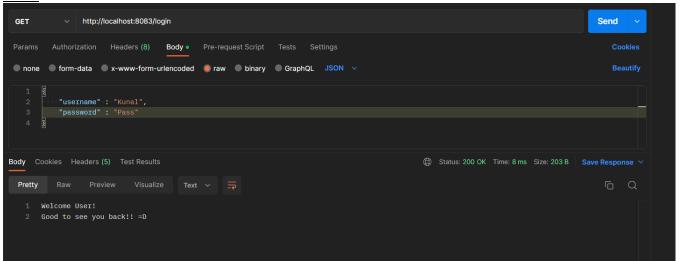
# OUTPUT: USER

#### **REGISTER**

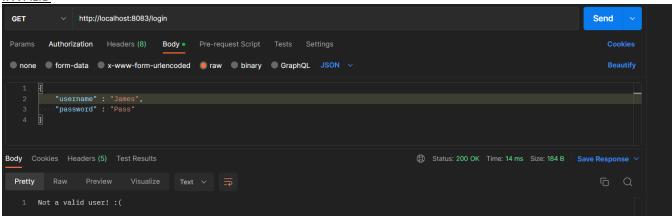


# **LOGIN**

#### VALID

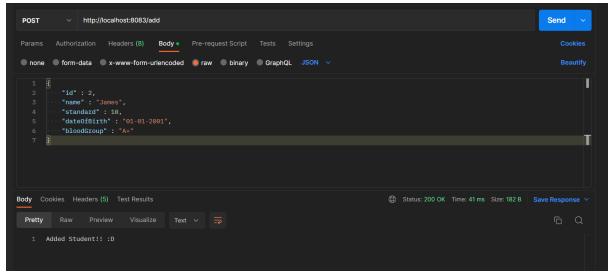


#### **INVALID**

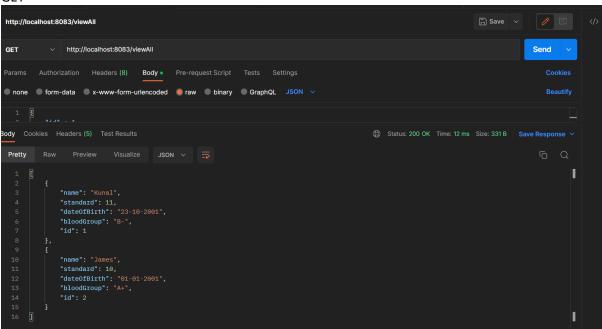


# **STUDENT**

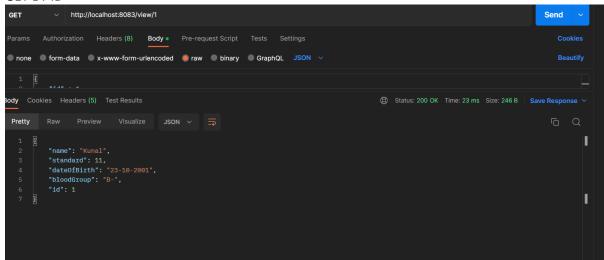
# **POST**



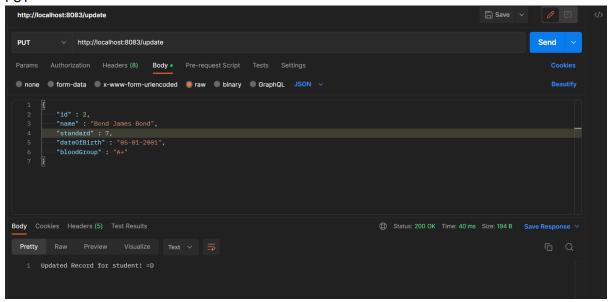
#### GET



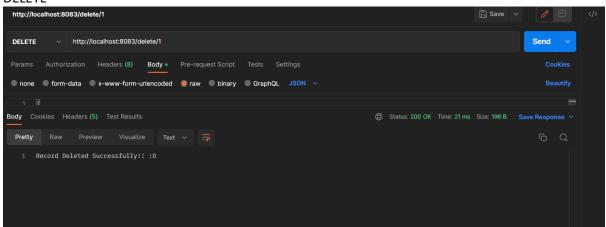
#### **GET BY ID**



#### PUT



#### DELETE



# **OUTPUT AFTER DELETE:**

