Significance of HTTP Method Types in RESTful Web Services

Student.java

```java
package com.spring.restful.springrestfull.model;

public class Student {
        private String Id;
        private String name;

        public String getId() {
                return Id;
        }
        public void setId(String id) {
                Id = id;
        }
        public String getName() {
                return name;
        }
        public void setName(String name) {
                this.name = name;
        }




}
```

StudentController.java

Package_com.spring.restful.springrestfull.controller;

import java.util.HashMap;

import java.util.Map;

import org.springframework.http.HttpStatus;

import org.springframework.http.ResponseEntity;

import org.springframework.web.bind.annotation.PathVariable;

import org.springframework.web.bind.annotation.RequestBody;

import org.springframework.web.bind.annotation.RequestMapping;

import org.springframework.web.bind.annotation.RequestMethod;

import org.springframework.web.bind.annotation.RestController;

import com.spring.restful.springrestfull.model.Student;

```java
@RestController
public class StudentController {
	private static Map<String ,Student>studentRecord=new HashMap<>();
	static {
		Student s1=new Student();
		s1.setId("8001");
		s1.setName("ABC");
		studentRecord.put(s1.getId(),s1);

		Student s2=new Student();
		s2.setId("8002");
		s2.setName("Hey MNO!!");
		studentRecord.put(s2.getId(),s2);

		Student s3=new Student();
		s3.setId("8003");
		s3.setName("XYZ");
		studentRecord.put(s3.getId(), s3);

	}
	@RequestMapping(value="/student")
	public ResponseEntity<Object>getStudent(){
		return new ResponseEntity<>(studentRecord.values(),HttpStatus.OK);
	}

	@RequestMapping(value="/student",method=RequestMethod.POST)
	public ResponseEntity<Object> createStudent(@RequestBody Student student)
	{
	studentRecord.put(student.getId(), student);
	System.out.println(studentRecord.values());
```

```java
        return new ResponseEntity<>("Student Record created successfully",HttpStatus.CREATED);

    }
////
    @RequestMapping(value="/student/{id}",method=RequestMethod.DELETE)
    public ResponseEntity<Object> deleteRecord(@PathVariable("id") String id){
            studentRecord.remove(id);
            return new ResponseEntity<>(studentRecord.values(), HttpStatus.OK);
                }
//
    @RequestMapping(value="/student/{id}",method=RequestMethod.PUT)
    public ResponseEntity<Object> updateStudent(@PathVariable("id") String id,
    @RequestBody Student student){
            studentRecord.remove(id);
            student.setId(id);
            studentRecord.put(id, student);
            return new ResponseEntity<>(studentRecord.values(),HttpStatus.OK);
    }




}
```
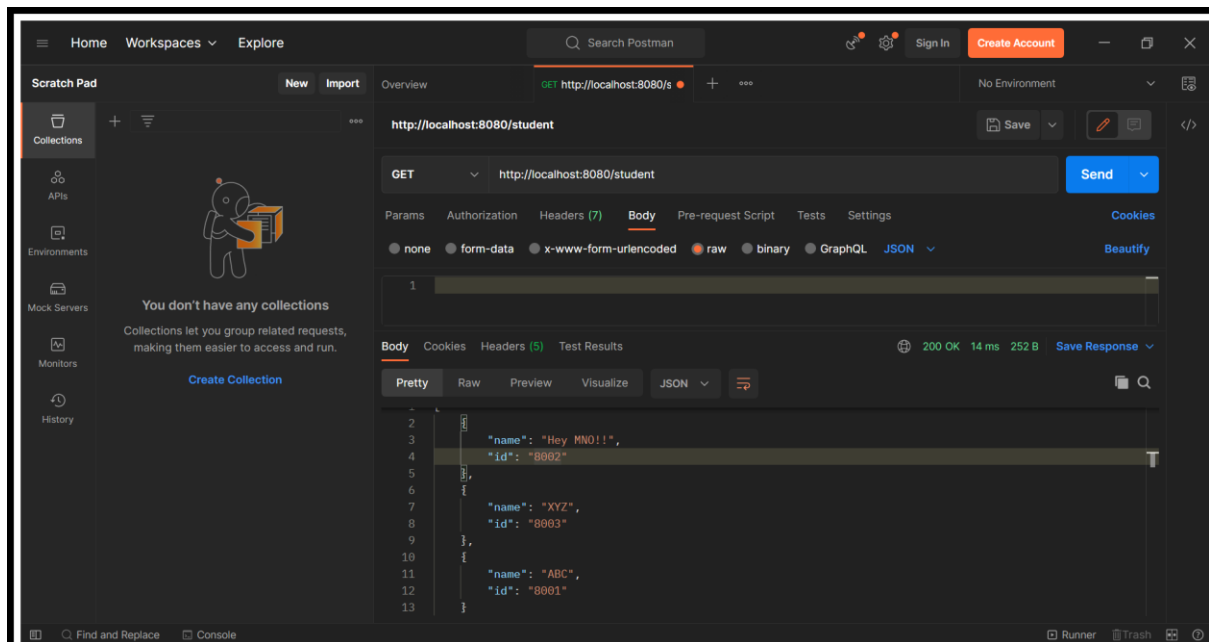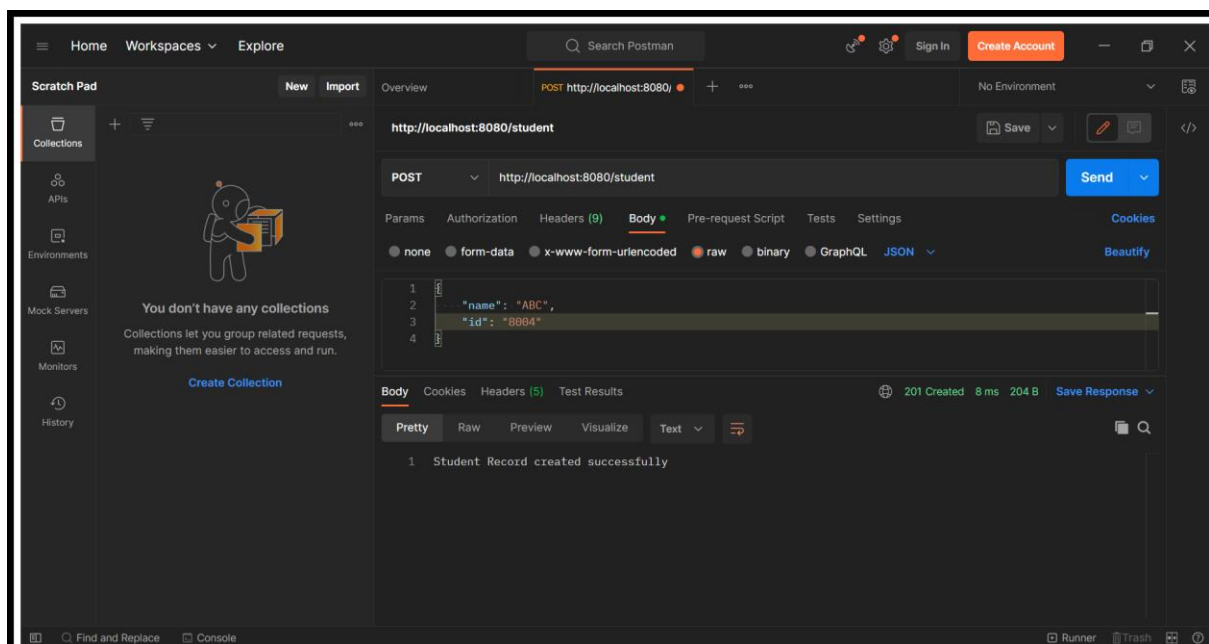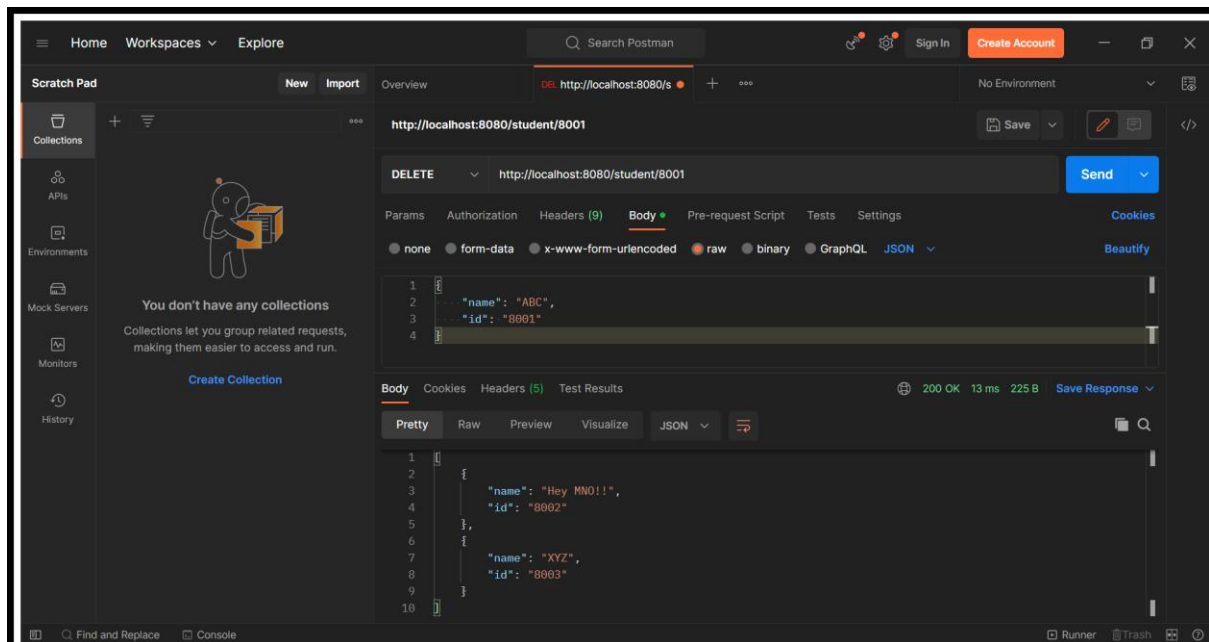
Output: Get

Post:

Delete:

Put: