

POST Method REST Controller Demo

application.properties

```
# App config
server.port=8080
spring.application.name=PostMethodDemo

# Open API Available at http://localhost:8080/api-docs/
springdoc.api-docs.path=/api-docs

# Swagger
# Default URL: http://localhost:8080/swagger-ui/index.html
# Custom URL: http://localhost:8080/swagger.html
springdoc.swagger-ui.path=/swagger.html

# Error Message
server.error.include-message=always
server.error.include-exception=true
```

Project Object Model(pom.xml)

```
<dependencies>

    <dependency>
        <groupId>org.springdoc</groupId>
        <artifactId>springdoc-openapi-ui</artifactId>
        <version>1.6.4</version>
    </dependency>

    <dependency>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-web</artifactId>
    </dependency>

</dependencies>
```

Employee Model (Employee.java)

```
package com.suji.sample.model;

import java.time.LocalDate;

public class Employee {

    private int id;
    private String name;
    private String dept;
    private double salary;
```

```

    private Gender gender;
    private LocalDate dateOfJoin;
    private boolean active;

    // NOTE: Must need Default Constructor for JSON Parsing.
    public Employee() {
    }

    public Employee(int id, String name, String dept, double salary) {
        this.id = id;
        this.name = name;
        this.dept = dept;
        this.salary = salary;
    }

    @Override
    public String toString() {
        //... Your Code
    }

    // Setters and Getters
}

```

Enum Gender (Gender.java)

```

package com.suji.sample.model;

public enum Gender {
    MALE, FEMALE
}

```

Controller (PostDemoController.java)

```

package com.suji.sample.controller;

import java.time.LocalDate;
import java.util.List;

import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RestController;

import com.suji.sample.model.Employee;
import com.suji.sample.model.Gender;

@RestController
@RequestMapping("/post")
public class PostDemoController {

    // Return a Employee object.
}

```

```

@PostMapping("/get_demo_emp")
public Employee getEmployee() {

    Employee emp = new Employee(1, "Sujith", "IT", 50000);
    emp.setDateOfJoin(LocalDate.of(2000, 9, 2));
    emp.setGender(Gender.MALE);
    emp.setActive(true);

    return emp;
}

// Reading Data from Request body and return as String.
@PostMapping("/to_string")
public String readEmployee(@RequestBody Employee emp) {
    return emp.toString();
}

// Read the EMP from Request body, modify that and return it.
@PostMapping("/read_emp")
public Employee getEmployee(@RequestBody Employee emp) {

    Employee e = new Employee(emp.getId() * 2, emp.getName(), emp.getDept(),
emp.getSalary() * 2);
    e.setActive(true);
    e.setDateOfJoin(LocalDate.of(2014, 3, 3));
    e.setGender(Gender.MALE);

    return e;
}

// Read Set of Data
@PostMapping("/all")
public List<Employee> getAllEmployee() {

    Employee emp1 = new Employee(1, "Sujith", "IT", 50000);
    Employee emp2 = new Employee(2, "Pranisha", "CSE", 75000);
    Employee emp3 = new Employee(3, "Srinivas", "MEC", 40000);

    List<Employee> list = List.of(emp1, emp2, emp3);

    return list;
}
}

```

Employee as JSON Representation.

```

{
  "id": 2468,
  "name": "Sujith",

```

```
"dept": "Java SE",  
"salary": 1000690.6906,  
"gender": "MALE",  
"dateOfJoin": "2014-03-03",  
"active": true  
}
```