



ESPE

UNIVERSIDAD DE LAS FUERZAS ARMADAS
INNOVACIÓN PARA LA EXCELENCIA



DESARROLLO WEB PARA INTEGRACIONES

Evaluación Formativa 3er Parcial Práctica

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NRC: 10047

Creación de una API REST para la gestión de Tareas

Código:

```
1 package com.proyecto.samanthatipanguano.controller;
2 import java.util.List;
3
4 import org.springframework.beans.factory.annotation.Autowired;
5 import org.springframework.http.HttpStatus;
6 import org.springframework.http.ResponseEntity;
7 import org.springframework.web.bind.annotation.*;
8
9 import com.proyecto.samanthatipanguano.model.Task;
10 import com.proyecto.samanthatipanguano.service.TaskService;
11
12 @RestController
13 @RequestMapping("/api/tasks")
14 public class TaskController {
15
16     @Autowired
17     private TaskService taskService;
18
19     @GetMapping
20     public ResponseEntity<List<Task>> getAllTasks() {
21         List<Task> tasks = taskService.getAllTasks();
22         return new ResponseEntity<>(tasks, HttpStatus.OK);
23     }
24
25     @GetMapping("/{id}")
26     public ResponseEntity<Task> getTaskById(@PathVariable Long id) {
27         Task task = taskService.getTaskById(id);
28         if (task != null) {
29             return new ResponseEntity<>(task, HttpStatus.OK);
30         } else {
31             return new ResponseEntity<>(), HttpStatus.NOT_FOUND;
32         }
33     }
34 }
```

The screenshot shows the VS Code editor with the Explorer sidebar on the left. The Explorer sidebar shows the project structure for 'SAMANTHATIPANGUANO'. The 'model' package is expanded, and 'Task.java' is selected. The main editor area displays the code for 'Task.java'. The code includes imports for 'java.util.Date', 'jakarta.persistence.Entity', 'jakarta.persistence.GeneratedValue', 'jakarta.persistence.GenerationType', and 'jakarta.persistence.Id'. The class 'Task' is annotated with '@Entity' and '@GeneratedValue(strategy = GenerationType.IDENTITY)'. It has private fields for 'id', 'name', 'description', 'date', and 'state'. There are two constructors: a no-args constructor and a constructor that takes 'id', 'name', 'description', 'date', and 'state' as parameters. The status bar at the bottom indicates 'You, 8 minutes ago', 'Ln 1, Col 1', 'Spaces: 4', 'UTF-8', 'CRLF', 'Java', and 'Go Live'.

```
src > main > java > com > proyecto > samanthatipanguano > model > Task.java > {} com.proyecto.samanthatipanguano.model
You, 8 minutes ago | 1 author (You)
1 package com.proyecto.samanthatipanguano.model;
2
3 import java.util.Date;
4
5 import jakarta.persistence.Entity;
6 import jakarta.persistence.GeneratedValue;
7 import jakarta.persistence.GenerationType;
8 import jakarta.persistence.Id;
9
10 @Entity
11 public class Task {
12     @Id
13     @GeneratedValue(strategy = GenerationType.IDENTITY)
14     private Long id;
15     private String name;
16     private String description;
17     private Date date;
18     private String state;
19
20
21     public Task() {
22     }
23
24     public Task(Long id, String name, String description, Date date, String state) {
25         this.id = id;
26         this.name = name;
27         this.description = description;
28         this.date = date;
29         this.state = state;
30     }
31 }
```

The screenshot shows the VS Code editor with the Explorer sidebar on the left. The Explorer sidebar shows the project structure for 'SAMANTHATIPANGUANO'. The 'repository' package is expanded, and 'TaskRepository.java' is selected. The main editor area displays the code for 'TaskRepository.java'. The code includes imports for 'org.springframework.data.jpa.repository.JpaRepository' and 'org.springframework.stereotype.Repository'. The class 'TaskRepository' is annotated with '@Repository' and implements 'JpaRepository<Task, Long>'. The status bar at the bottom indicates 'You, 9 minutes ago', 'Ln 1, Col 1', 'Spaces: 4', 'UTF-8', 'CRLF', 'Java', and 'Go Live'.

```
src > main > java > com > proyecto > samanthatipanguano > repository > TaskRepository.java > ...
You, 9 minutes ago | 1 author (You)
1 package com.proyecto.samanthatipanguano.repository;
2
3 import org.springframework.data.jpa.repository.JpaRepository;
4 import org.springframework.stereotype.Repository;
5
6 import com.proyecto.samanthatipanguano.model.Task;
7
8 @Repository
9 public interface TaskRepository extends JpaRepository<Task, Long> {
10 }
11 }
```

```
src > main > java > com > proyecto > samanthatipanguano > SamanthaTipanguanoApplication.java > ...
1 package com.proyecto.samanthatipanguano;
2
3 import org.springframework.boot.SpringApplication;
4 import org.springframework.boot.autoconfigure.SpringBootApplication;
5
6 You, 9 minutes ago | 1 author (You)
7 @SpringBootApplication
8 public class SamanthaTipanguanoApplication {
9
10     Run | Debug
11     public static void main(String[] args) {
12         SpringApplication.run(SamanthatipanguanoApplication.class, args);
13     }
14 }
```

```
src > test > java > com > proyecto > samanthatipanguano > SamanthaTipanguanoApplicationTests.java > Language Support for Java(TM) by Red Hat > {} com.proye
1 You, 9 minutes ago | 1 author (You)
2 package com.proyecto.samanthatipanguano;
3
4 import org.junit.jupiter.api.Test;
5 import org.springframework.boot.test.context.SpringBootTest;
6
7 You, 9 minutes ago | 1 author (You)
8 @SpringBootTest
9 class SamanthaTipanguanoApplicationTests {
10
11     @Test
12     void contextLoads() {
13     }
14 }
```

Ejecución:



