Cognizant Digital Nurture 4.0 – Week 3:

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**Topic: Spring REST**

**1. Key Annotations Used in Spring REST**

* @RestController – Marks the class as a REST controller.
* @RequestMapping – Maps HTTP requests to controller methods.
* @GetMapping, @PostMapping, @PutMapping, @DeleteMapping – Handle specific HTTP request types.
* @PathVariable – Extracts values from the URI.
* @RequestBody – Binds the HTTP request body to a method parameter.

**2. Example – Simple REST Controller**

**EmployeeController.java**

java

import org.springframework.web.bind.annotation.\*;

import java.util.\*;

@RestController

@RequestMapping("/employees")

public class EmployeeController {

private List<String> employees = new ArrayList<>(List.of("Alice", "Bob", "Charlie"));

@GetMapping

public List<String> getAllEmployees() {

return employees;

}

@PostMapping

public String addEmployee(@RequestBody String name) {

employees.add(name);

return "Employee added: " + name;

}

@DeleteMapping("/{name}")

public String deleteEmployee(@PathVariable String name) {

employees.remove(name);

return "Employee removed: " + name;

}

}

**Output:**  
REST endpoints to **view (GET)**, **add (POST)**, and **delete (DELETE)** employees.

**3. Spring Boot Main Class**

**SpringbootRestApplication.java**

java

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication

public class SpringbootRestApplication {

public static void main(String[] args) {

SpringApplication.run(SpringbootRestApplication.class, args);

}

}

**Output:**  
Bootstraps and runs the Spring REST application.