

Date : 23/03/2021  
Spring Boot 9AM  
Mr. RAGHU

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Error and Exception Handling:

<https://www.youtube.com/c/NareshtIT/search?query=error%20raghu>

AOP:

<https://www.youtube.com/c/NareshtIT/search?query=AOP%20raghu>

Spring Boot ReST # Crud Application # Mini Project

- a. Crud Application [DONE]
- b. Test using POSTMAN [DONE]
- c. Exception Handling [DONE]
- d. Logging
- e. Swagger UI Config
- f. Unit Testing
- g. Connection Pooling

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c. Exception Handling

S#1 Create one Custom Exception class

```
package in.naresht.raghu.exception;
public class EmployeeNotFoundException
    extends RuntimeException
{
    private static final long serialVersionUID = 1L;
    public EmployeeNotFoundException() {
        super();
    }
    public EmployeeNotFoundException(String message) {
        super(message);
    }
}
```

S#2 ExceptionHandler class (Global Catch Block)

```
package in.naresht.raghu.handler;
//ctrl+shift+O
@RestControllerAdvice //afterThrowingAdvice
public class MyCustomExceptionHandler {

    @ExceptionHandler(EmployeeNotFoundException.class)
    public ResponseEntity<String> handleEmployeeNotFoundException(
        EmployeeNotFoundException enfe
    )
    {
        return new ResponseEntity<String>(
            enfe.getMessage(),
            HttpStatus.NOT_FOUND);
    }
}
```

S#3 service is throwing exception to RestController

re-throw back to Exception-Handler

add catch block for delete(), getOne(), update()

```
} catch(EmployeeNotFoundException enfe) {  
    //re-throw back to handler  
    throw enfe;  
}
```

S#4 At service layer modified code is (3 methods)

```
public void updateEmployee(Employee e) {  
    getOneEmployee(e.getEmpId());  
    util.calculateDetails(e);  
    repo.save(e);  
}  
  
public void deleteEmployee(Integer id) {  
    //repo.deleteById(id);  
    repo.delete(getOneEmployee(id));  
}  
  
public Employee getOneEmployee(Integer id) {  
    Optional<Employee> opt = repo.findById(id);  
    if(opt.isPresent()) {  
        return opt.get();  
    }else {  
        throw new EmployeeNotFoundException(  
            "Employee '"+id+"' Not exist");  
    }  
}
```

|                   |                            |                         |
|-------------------|----------------------------|-------------------------|
| saveEmployee()    | : ResponseEntity<String>   | Employee saved          |
| getAllEmployees() | : ResponseEntity<List<T>>  | Display all List<T>     |
| getOneEmployee()  | : ResponseEntity<Employee> | Display one Type object |
| deleteEmployee()  | : ResponseEntity<String>   | Employee Deleted        |
| updateEmployee()  | : ResponseEntity<String>   | Employee updated        |