Manjunath Patil gl 04:05 PM

What the difference between normal & maven project ?

Faculty (Olympus) 04:06 PM

Maven is build tool, so you can add third party dependencies by adding in pom.xml

Maven handles your build and other required setup of its own

But when you create normal project, you need to add all dependency jars manually.

Manjunath Patil gl 04:09 PM

What is DAO ?

Faculty (Olympus) 04:09 PM

DAO stands for Data Access Objects the layer where we can write codes to connect to Database and manipulate data

Paras Ashra gl 04:10 PM

what is .dao?

Faculty (Olympus) 04:10 PM

DAO is Data Access Object layer where all code related to DB connection and manipulation will be added.

Prajakta Choudhari gl 04:12 PM

why do we need toString?

Faculty (Olympus) 04:13 PM

toString returns a String which would contain all info about the Object-record of a class, which can be called through syso statement to display the data on the console

Faculty (Olympus) 04:15 PM

toString displays the record on the Console.....when we syso an Object

PRATIKSHIT CHOWDHURY gl 04:12 PM

why we generate toString?

Faculty (Olympus) 04:13 PM

We generate toString() method to print the content of the object.

We override this method whenever we want to see what is the content present in our object i.e. Order object here

Manjunath Patil gl 04:13 PM

Can it briefed which project is explaining now ?

Faculty (Olympus) 04:13 PM

Maven Project - simple Spring MVC project

Faculty (Olympus) 04:14 PM

Here we are not going to connect to db in todays session, but in next classes, but simulate that part

Sayan Sengupta gl 04:14 PM

please explain the lamda expression here. I don't know labda expressions yet

Faculty (Olympus) 04:16 PM

Lambda Expressions are part of Java 8.

Here we are filtering all the orders by comparing id.

We use Predicate to filter out the records and return any first record we are getting

You can search more on java streams to understand these terms.

P.KUNAL gl 04:15 PM

what is orders.stream class

Faculty (Olympus) 04:16 PM

It will enable us to get a List of Objects using Stream classes

Faculty (Olympus) 04:27 PM

streams are facilities available as Java8 feature using which we can get a collection in the form of a List or we can filter etc ...

AMAR RAMLING KATKAR gl 04:16 PM

How IOC is achieved here ?

Faculty (Olympus) 04:17 PM

IOC is intrinsic feature of SpringMVC, the spring Container will implement.....

AMAR RAMLING KATKAR gl 04:17 PM

please explain DI in this example

Faculty (Olympus) 04:18 PM

Dependency Injection is a feature by which the Spring Container would inject the Objects/beans dynamically that we need

neha kumari gl 04:18 PM

sir please explain lambda function

Faculty (Olympus) 04:21 PM

Lambda Expressions are way to implement functions dynamically we can also implement functions that you declare in Functional Interfaces

Lubna Arora gl 04:19 PM

IS DI similar to composition ?

Faculty (Olympus) 04:20 PM

No they are different DI involves in injecting Objects whereas Composition is related to Containment of objects, when we create an Object it is contained in the Service that way it is composed

kaliyamoorthi gl 04:19 PM

why we are using .dao.orderrepository

Faculty (Olympus) 04:21 PM

We are using orderRepository class in service. Basically we are doing DI here by initiatializing the orderRepository in Constructor

neha kumari gl 04:20 PM

whta is the need of Dao class

Faculty (Olympus) 04:23 PM

DAO class is the layer which can contain codes which can communicate with Database.. these functions would be called by Service and Service functions would be called by Controller

Manjunath Patil gl 04:22 PM

It should be better to brief problem statement of the project we are working ?

Faculty (Olympus) 04:22 PM

please put this in chat PM will do help you

Faculty (Olympus) 04:22 PM

We are creating a simple MVC project and using DI

neha kumari gl 04:22 PM

explain what 0->

Faculty (Olympus) 04:25 PM

It is the syntax /implementation of Lambda Functions

Siddhartha Shekhar gl 04:23 PM

Difference between is-a and has-a relationship?

Faculty (Olympus) 04:24 PM

Is a - inheritance - it contains the properties and method in particular relation

Has a - Composition - means it is directly dependent on that class

Jeyachithra Balaraman gl 04:24 PM

Can u pls brief once again

Faculty (Olympus) 04:24 PM

put this in chat

SAMEER S. GAJGHATE gl 04:24 PM

what is meant by dao?

Faculty (Olympus) 04:24 PM

DAO layer contains code to communiate with DB

Satyadeep Sharma gl 04:26 PM

can u pls explain the sytanx concept orderrepository.saveorder

Faculty (Olympus) 04:26 PM

We are saving the order in list using this method

Sayan Sengupta gl 04:26 PM

@Service annotation what is it doing?

Faculty (Olympus) 04:27 PM

It is marking that class as service class and creating a bean of that class.

Prajakta Choudhari gl 04:32 PM

what is a bean?

Faculty (Olympus) 04:33 PM

Bean represents an Object which would be dynamicall injected by the Container, we do not create using ClassA x = new ClassA(), instead which should be taken care of by Container for which we should designate it as a bean

Bhanu Priya gl 04:33 PM

why is order not spring bean?

Faculty (Olympus) 04:34 PM

Order is DTO class, it is not required to inject in any of the classes

AMAR RAMLING KATKAR gl 04:34 PM

are we creating objects in configuration file ?

Faculty (Olympus) 04:35 PM

We are creating beans in configuration class and spring will handle the object creation and injection part of its own.

Manjunath Patil gl 04:36 PM

What is AnnotationConfiContexy ?

Faculty (Olympus) 04:37 PM

It is an entity, which helps in retrieving the generated Beans based on the Configuration file

Avantika Mishra gl 04:38 PM

where is the anotationconfigapplication() available?

Faculty (Olympus) 04:38 PM

It is all Part of Spring Framework

Prajakta Choudhari gl 04:38 PM

how to run this application?

Faculty (Olympus) 04:38 PM

You create main method in client class and register all beans by calling applicationcontext file and then you can execute your orders.

PRATIKSHIT CHOWDHURY gl 04:48 PM

what is a cradle project

Faculty (Olympus) 04:48 PM

Gradle is another build tool which is similar to maven.

It is also used to add dependencies and handle your build process.

Satyadeep Sharma gl 04:48 PM

Difference b.w JAR and WAR ?

Faculty (Olympus) 04:49 PM

Java Archive is Java Libraries for webapplications it has to be compressed to WAR

Faculty (Olympus) 04:50 PM

Actually even if you create a web app Spring Boot compresses it as simpla Java ARchive thats the reason when we run SpringBoot app we do not need to run explicitly on server,w e say run as java app, internally it runs on inbuilt web server

Shubham Sharma gl 04:49 PM

What do we do with kafka sir?

This question has been answered live

Aditi Sharma gl 04:49 PM

How to determine the number of dependencies required?

Faculty (Olympus) 04:49 PM

There are no any specific numbers of dependencies required.

Whenever you need to access like class, any annotation you need to add dependency which is present

Shubham Sharma gl 04:55 PM

does this makes any difference if we run this spring boot project as java application not as spring boot application

Faculty (Olympus) 04:56 PM

When we run as Java Application internally it is SpringBoot app only

KESAVA REDDY KASIREDDY gl 04:58 PM

SIR , PL REPEAT Start SPRING

Faculty (Olympus) 04:59 PM

Please mention in chat if you want any explanation again

Avantika Mishra gl 04:59 PM

can you please once explain RESTful API

Faculty (Olympus) 05:00 PM

RESTFul APi are nothing but Web Service having multiple endpoints for exposing various functionalities

Prajakta Choudhari gl 05:01 PM

what all dependencies are added in project?

Faculty (Olympus) 05:02 PM

We have added only starter web dependency for spring boot and it adds all required libraries for your project of its own

Kinkar Kishore gl 05:02 PM

What is resource here?

Faculty (Olympus) 05:03 PM

Any content like Products/Employes details etc that we would like to deal with

Suresh Mudireddy gl 05:04 PM

Why is such resource access called “RESTFul”? what is that “ful” indicates ? Sruthi Saride gl 05:07 PM

Does REST has any full form?

Faculty (Olympus) 05:09 PM

Representational State Transfer

Faculty (Olympus) 05:09 PM

Representational State Transfer Application Programming Interface (Restful Api)

Vishal Arora gl 05:11 PM

The Same project can be setup .. just add dependency in POM xml of Simple Maven Project

Faculty (Olympus) 05:12 PM

Not clear with the question can you elaborate?

Sruthi Saride gl 05:14 PM

Will we not see the methods in the class?

Faculty (Olympus) 05:16 PM

Yes they would be generated dynamically

KESAVA REDDY KASIREDDY gl 05:15 PM

sir, how to know which are dependecny to search

Faculty (Olympus) 05:15 PM

You can search in Maven repository too by giving the name it gives the complete dependency tags with complete artifact version etc

Malleboyena JayaKrishna gl 05:15 PM

what does equaltohashcode method do?

Faculty (Olympus) 05:16 PM

It generates equals and hashcode methods in the order class

Avantika Mishra gl 05:16 PM

what does the equalsandhashcode do?

Faculty (Olympus) 05:16 PM

It will generate equals and hashcode methods in the class which is generally object class methods and used in checking the equality of 2 objects

P.KUNAL gl 05:16 PM

what is slf4j?

Faculty (Olympus) 05:16 PM

It is a logging framework

Manjunath Patil gl 05:21 PM

What is optional

Faculty (Olympus) 05:22 PM

Optional is class which will return object if it presentOptional object is used to represent null with absent value. This class has various utility methods to facilitate code to handle values as 'available' or 'not available' instead of checking null values.

Jeyachithra Balaraman gl 05:22 PM

.stream, filter ... how many more keywords do we have

Faculty (Olympus) 05:23 PM

This is complete concept in Java 8 streams where we can do multiple operations using streams.

Like filter, find, map, sort, etc.

Shubham Sharma gl 05:22 PM

What is Optional<Order> over here?

Faculty (Olympus) 05:23 PM

Optional is a feature of Java 8 using which we can avoid runtime exceptions when we fetch a collections in case they are not available

Hammad Salahudeen gl 05:24 PM

dees the getter and setter funs genereated by lombok visible or where can we see those definition fro lombok ? Faculty (Olympus) 05:24 PM

It is not directly visible in the class, but once you create order object. You can see the list of all setters and getters method in that object

Jeyachithra Balaraman gl 05:24 PM

can we have a brief of it, so that we know what to use, when to use it

Faculty (Olympus) 05:26 PM

please be clear brief of what?

Sachin Kumar Thakur gl 05:25 PM

what is the difference between spring and node?

Faculty (Olympus) 05:26 PM

Node is JS based language

Spring is Java based framework.

Kripindas K gl 05:25 PM

Do we have sessions on Streams?

Faculty (Olympus) 05:27 PM

You can check with course coordinator on this.

You can learn Java streams as separate concept of your own.

Kinkar Kishore gl 05:25 PM

I didnt understood the lombok approach

Faculty (Olympus) 05:26 PM

Lombok is a simple framework which auto generates the setters, constructors , to string etc, which otherwise we need to manually implemenbt...

Faculty (Olympus) 05:28 PM

constructors/getters/setters/toString/equals/hashcode/logging etc

Shivani Kumawat gl 05:26 PM

other than removing getter setter related boiler plate code, what else is lombok used for

Faculty (Olympus) 05:27 PM

it can generate Logging info

Jeyachithra Balaraman gl 05:26 PM

Brief of the keywords available and their usage.

Faculty (Olympus) 05:28 PM

Key words of Streams based functions you mean?

Jeyachithra Balaraman gl 05:28 PM

Even in the videos provided so many keywords are used. I am able to just follow it , but not knowing why is that used and what are the other keywords available

Faculty (Olympus) 05:28 PM

You can just explore , you get lot of documentation on web...

Jeyachithra Balaraman gl 05:28 PM

yes

Faculty (Olympus) 05:29 PM

https://stackify.com/streams-guide-java-8/ this link would give you lot of info

KESAVA REDDY KASIREDDY gl 05:29 PM

ok, but how to know what are all required for us for the given problem statement

Faculty (Olympus) 05:30 PM

yes basically it can htting List of Objects in Stream , filtering and other operations like mapping... etc

Jeyachithra Balaraman gl 05:29 PM

Can u pls share an useful link?

Faculty (Olympus) 05:30 PM

https://stackify.com/streams-guide-java-8/

Shashank Shukla gl 05:29 PM

any reference guide for Spring boot

Faculty (Olympus) 05:31 PM

https://www.baeldung.com/spring-boot

Jeyachithra Balaraman gl 05:33 PM

What shortcut key is used to include the import statement.

Faculty (Olympus) 05:34 PM

Ctrl + space will give you all available imports for particular error line

Jeyachithra Balaraman gl 05:35 PM

like @Service.. error is marked in red. We can move mouse and then click the import statement. What is the equivalent shortcut key used

Faculty (Olympus) 05:36 PM

equivalent in IntelliJ you mean? not clear with your doubt

KESAVA REDDY KASIREDDY gl 05:41 PM

sir please what is end point

Faculty (Olympus) 05:41 PM

End point is the URL through which we will access the particular functionality or resource.

Sayan Sengupta gl 05:42 PM

through service through repository

Faculty (Olympus) 05:42 PM

Correct

Kinkar Kishore gl 05:43 PM

what is the use of getmapping and postmapping?

Faculty (Olympus) 05:44 PM

GetMapping is used as the annotation for handling/mapping get Request when we need to get data and PostMapping can be used to map the Post Request i.e to send data to Server

Rameshwari Sreedhar gl 05:45 PM

Please can you explain marshalling again

Faculty (Olympus) 05:46 PM

Marshalling is process to convert java object to JSON.

Web browser do not understand java so it converts your java object to JSON which is independent domain

Satyadeep Sharma gl 05:45 PM

can u pls explain one more time. marshalling unmarshalling, json to java and java to json concept

Faculty (Olympus) 05:47 PM

Marshalling a process where the Java Objects can be converted to JSON and vice versa

Kinkar Kishore gl 05:47 PM

what is jason?

Faculty (Olympus) 05:47 PM

JavaScript Object Notation - simple format to exchange data

Faculty (Olympus) 05:47 PM

JSON is document type structure format which contains key value pairs of data

Sriram Kannan gl 05:47 PM

Is Order class service acting like a micro-service in this use case?

Faculty (Olympus) 05:48 PM

No it is not micro service.

Service is basically a class which holds your business logic of app

kaliyamoorthi gl 05:49 PM

why we are using postman

This question has been answered live

Sruthi Saride gl 05:50 PM

Object to json doesn't require any annotation?

Faculty (Olympus) 05:52 PM

@getmapping @postmapping - they handle that conversion automatically. So no explicit annotation required

Aravind S gl 05:51 PM

what if we set the param in the link and send via browser..? will it be considered as post..?

Faculty (Olympus) 05:52 PM

Not necessarily.... what ever we do through mapping that only supercedes

AMAR RAMLING KATKAR gl 05:52 PM

If we will run the application now

Faculty (Olympus) 05:52 PM

please be clear

AMAR RAMLING KATKAR gl 05:52 PM

What will happen, if we will run the java application ? Whether we can see the details in console as well ?

Faculty (Olympus) 05:53 PM

Yes you can see the details and logs in console, and if you have used any additional logging in your app. That also will be visible in console

Vishal Arora gl 05:54 PM

What is the use of @PathVariable and @ResponseBody?

This question has been answered live

AMAR RAMLING KATKAR gl 05:56 PM

is we will try to post duplicate record, whether it will give error ?

Faculty (Olympus) 05:56 PM

Not necessarily until and unless you have id issue - primary key

Sruthi Saride gl 06:00 PM

Can we again hear the way we call - the sequence?

Faculty (Olympus) 06:01 PM

please put this in chat PM will adress

Shashank Shukla gl 06:01 PM

what is () -> newIllegalArgumentexception

Faculty (Olympus) 06:01 PM

This is we are throwing exception if no order is present for specific ID

Vishal Arora gl 06:01 PM

Can we provide @GetMappting("={id}") like it ?

This question has been answered live

Aravind S gl 06:01 PM

how can we get the ID from a get method using parameter instead of mentioning it in path.?

Jeyachithra Balaraman gl 06:08 PM

why is .stream() used

Faculty (Olympus) 06:09 PM

stream functions are part of java 8 feature by which we can convert a Collections to Stream from which we can do parallal access/ sequential access or we can filter etc....

Sriram Kannan gl 06:08 PM

returns the order details

Faculty (Olympus) 06:08 PM

Yea it will return the order details

Jeyachithra Balaraman gl 06:13 PM

Why is @PathVariable used

Faculty (Olympus) 06:14 PM

Parh variable is used to identify the existing order id which needs to be update

Sriram Kannan gl 06:16 PM

only on the Use case. config is reduced

Faculty (Olympus) 06:17 PM

Correct

Sruthi Saride gl 06:18 PM

What's the advantage of restarting the server? What happens if we don't restart and continue working?

Faculty (Olympus) 06:19 PM

The changes will not be affected, every time we change something we need to restart right that can be avoided using DevTools

Srishti Tiwari gl 06:19 PM

Devtools is a good option here but for a live application it wont be correct as system can go down on server restart or there will be no downtime?

Faculty (Olympus) 06:20 PM

Yea thats why it is dev tool for your development. We don’t use in production

Prajakta Choudhari gl 06:22 PM

can we verify similarly in swagger too?

KESAVA REDDY KASIREDDY gl 06:29 PM

Sir , please how we can know, what are depednecy we need for a problem statment

This question has been answered live

Varayogula Shravan gl 06:30 PM

Is the configuration set-up same on AWS architecture?

Prajakta Choudhari gl 06:22 PM

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This question has been answered live

Varayogula Shravan gl 06:30 PM

Is the configuration set-up same on AWS architecture?

HIBERNET CONNECTOR

<properties>

<maven.compiler.source>11</maven.compiler.source>

<maven.compiler.target>11

MYSQL CONNECTOR

<dependency>

<groupId>mysql</groupId>

<artifactId>mysql-connector-java</artifactId>

<version>8.0.28</version>

</dependency>

COMPLETE DEPENDANCY

<properties> <maven.compiler.source>11</maven.compiler.source> <maven.compiler.target>11</maven.compiler.target> </properties> <dependencies> <!-- https://mvnrepository.com/artifact/org.springframework/spring-webmvc --> <dependency> <groupId>org.springframework</groupId> <artifactId>spring-webmvc</artifactId> <version>5.3.21</version> </dependency> <!-- https://mvnrepository.com/artifact/org.hibernate/hibernate-core --> <dependency> <groupId>org.hibernate</groupId> <artifactId>hibernate-core</artifactId> <version>6.1.0.Final</version> </dependency> <!-- https://mvnrepository.com/artifact/mysql/mysql-connector-java --> <dependency> <groupId>mysql</groupId> <artifactId>mysql-connector-java</artifactId> <version>8.0.29</version>

</dependency>

</dependencies>

NEW GIT LINK

<https://github.com/vishal-op-arora/LabSession_19Jun2022>

SPRING BOOT 25.06.2022

KESAVA REDDY KASIREDDY gl 04:20 PM

sir web language, to be written by each orgnization like weather dept.

Faculty (Olympus) 04:21 PM

they use XMl for WSDL

Vishal Arora gl 04:21 PM

is SOAP works with XML only or JSON as well ?

Faculty (Olympus) 04:21 PM

SOAP only works with XML

KESAVA REDDY KASIREDDY gl 04:22 PM

sir, who has to develop all these description document

Faculty (Olympus) 04:22 PM

It would be generated when you a specific Framework

KESAVA REDDY KASIREDDY gl 04:23 PM

ok, is it auto generated

Faculty (Olympus) 04:23 PM

But specs have to be mentioned

Faculty (Olympus) 04:24 PM

You need to use certain tools to generate them which are part of your framework

Amruta Ramling Katkar gl 04:23 PM

which is more secure SOAP or REST ?

Faculty (Olympus) 04:24 PM

Both are equally secured but SOAP is complex but REST is simple to implement

Amruta Ramling Katkar gl 04:24 PM

Are there any restrictions on number of transactions processed through SOAP or REST ?

Faculty (Olympus) 04:25 PM

No we don’t have such restrictions at service side. You can implement your own security or load on these apis

Sayan Sengupta gl 04:38 PM

/orders

Faculty (Olympus) 04:39 PM

Right

Vishal Arora gl 04:42 PM

payload ?

Faculty (Olympus) 04:43 PM

Request object - payload is request object body which we pass to rest apis.

Amruta Ramling Katkar gl 04:46 PM

If we want to update the data in bulk, then how it will work ?

Faculty (Olympus) 04:47 PM

Then in that case you can send the bulk data in request body and use the different url

Like /updateOrders

Request body : [] array of objects to be updated

Amruta Ramling Katkar gl 04:47 PM

id - it will be used to update unique records.

Faculty (Olympus) 04:47 PM

id is ususal Primary key sort

KESAVA REDDY KASIREDDY gl 04:48 PM

Sir, please some info on what is Payload

Faculty (Olympus) 04:49 PM

PayLoad is like the information/data/responses/request that is transacted from RESTFul to and fro

P.KUNAL gl 04:50 PM

so what is URI exactly?

Faculty (Olympus) 04:51 PM

URI is uniform resource indicator

So in api - /orders - this is termed as uri which identifies different resource at server

Sriram Kannan gl 04:51 PM

how does Rest Service achieve cacheability? Does it persist in the memory?

Faculty (Olympus) 04:52 PM

Caching is overhead we need to add that part we can do memory based as well as disk based

DOMMETI SAI SRIKANTH gl 04:52 PM

What is the difference between URI and URL?

Faculty (Olympus) 04:52 PM

URI is more stable/with more clarity where as URL may be ambiguous at times

Faculty (Olympus) 04:56 PM

You can get more info here

https://byjus.com/gate/difference-between-url-and-uri/#:~:text=URL%20and%20URI%2C%20both%20crucial,the%20resource%20on%20the%20internet.

SOUMYADIP JANA gl 04:55 PM

sir its like 1 person work in one time ?

Faculty (Olympus) 04:56 PM

Yes request is handled at each step and perform some operation and send to another layer.

Again it gets return back from step by step till Controller layer.

Hammad Salahudeen gl 04:57 PM

Persistence logic means, talking to DB for CRUD or something else ?

Faculty (Olympus) 04:57 PM

It means working with database including all db operations.

KESAVA REDDY KASIREDDY gl 04:57 PM

sir DAO is for StorageDat onlt

Faculty (Olympus) 04:58 PM

DAO is data access object layer

And it works with database to perform CRUD operations.

KESAVA REDDY KASIREDDY gl 04:59 PM

Sir, now no need to know about soap,

Faculty (Olympus) 05:00 PM

Not required...too much you dont need to practically work on it,but you can go through the info on it

Shivani Kumawat gl 05:00 PM

how is spring boot do we always use mvc architecture?

Faculty (Olympus) 05:01 PM

SpringBoot as you know is a framework which enables us to create MVC based applications

Faculty (Olympus) 05:01 PM

when we create RESTFull app also we are going to USE MVC style

Shivani Kumawat gl 05:02 PM

in spring boot, do we always use MVC architecture for creating web applications?

Faculty (Olympus) 05:03 PM

Spring boot is a framework and it is being used to create multiple type of applications like standalone apps, mvc based apps, rest api etc.

MVC is one of the architectural design which we use in spring boot framework.

Amruta Ramling Katkar gl 05:03 PM

what is datasource url ?

Faculty (Olympus) 05:04 PM

Data SOurce URL specifies the SYstem on which the Database is running , the Port Number where it is running and the database name

SANJAY KUMAR GANGULY gl (You) 05:05 PM

How w know thw configurations done so far is complete ?

Faculty (Olympus) 05:06 PM

You need to specify basic needs like URL,driver,userid , password which are mandatory others optional we can do it in many ways

Shivani Kumawat gl 05:06 PM

in spring boot, do we always use MVC architecture for creating web applications?Faculty (Olympus) 5:03 PMSpring boot is a framework and it is being used to create multiple type of applications like standalone apps, mvc based apps, rest api etc.

MVC is one of the architectural design which we use in spring boot framework.

——————————————————

how are mvc based apps different from rest api’s?

Faculty (Olympus) 05:07 PM

In MVC, we have model view controller.

View layer is ui like jsp etc

In rest api, its not mandatory to have view layer.

So thats how they are different.

Shivani Kumawat gl 05:09 PM

in spring boot, do we always use MVC architecture for creating web applications?Faculty (Olympus) 5:03 PMSpring boot is a framework and it is being used to create multiple type of applications like standalone apps, mvc based apps, rest api etc. MVC is one of the architectural design which we use in spring boot framework.——————————————————how are mvc based apps different from rest api’s?Faculty (Olympus) 5:07 PMIn MVC, we have model view controller. View layer is ui like jsp etc In rest api, its not mandatory to have view layer.

So thats how they are different.

————————————————————

then how do we manage UI in case of REST api?

Faculty (Olympus) 05:10 PM

We don’t need to manage view or UI.

Rest apis are ones which can be used by any other frontend or backend apps or by any browser.

You can check your api working by using postman. You don need any ui for rest apis

KESAVA REDDY KASIREDDY gl 05:09 PM

Sir in the flow chart - entiry coming in which box- like DAO, , SERVICE , CONTROLLER, etc

Faculty (Olympus) 05:10 PM

entity represents Model/POJO that was not shown in it I guess

Amruta Ramling Katkar gl 05:10 PM

Employee entity is also the DAO, then why we are creating the separate package for DAO.

Faculty (Olympus) 05:10 PM

Entity is a Model class , DAO is the layer where you write all Data access codes for DML etc

Y Chinna Raja Reddy gl 05:10 PM

what is Out of Box?

Faculty (Olympus) 05:11 PM

please put this in chat

Faculty (Olympus) 05:11 PM

He means basically a Ready-Made

Maidily P gl 05:13 PM

What is the difference between autowired and override?

This question has been answered live

Adarsha N J gl 05:16 PM

So does Spring data JPA uses hibernate internally.? How Spring JPA is different from hibernate.?

Faculty (Olympus) 05:16 PM

Not needed it has its own API.....

Faculty (Olympus) 05:17 PM

JPA has more automation for eg.in Hibernate we use HQL here we use JQL for only ncustomized queries basic operations are all more automated

Amruta Ramling Katkar gl 05:18 PM

we need to do all the configurations in application properties file ?

Faculty (Olympus) 05:19 PM

You have multiple way of doing configurations

- adding properties in app.properties

- you can also add in java class based configurations as well

KESAVA REDDY KASIREDDY gl 05:21 PM

Sir is this code, one time developed, and used

Faculty (Olympus) 05:22 PM

for a business yes you create and people can use any time

Shivani Kumawat gl 05:21 PM

here, is ‘/employees’ an endpoint?

Faculty (Olympus) 05:21 PM

yes

KESAVA REDDY KASIREDDY gl 05:21 PM

Sir same code, can we use multiple time

Faculty (Olympus) 05:22 PM

Yes you can use same code multiple times by calling your apis

Faculty (Olympus) 05:22 PM

Yes like any other app create once use any times

Bhanu Priya gl 05:22 PM

can you explain jpa repository?

Faculty (Olympus) 05:22 PM

JPA uses JQL JPA Query language

Maidily P gl 05:22 PM

How do we get familiarized with the dependency declarations?

Faculty (Olympus) 05:23 PM

by practice

Faculty (Olympus) 05:41 PM

Data is getting stored in DB in Employee table as shown on the screen

Amruta Ramling Katkar gl 05:41 PM

if we want to get the data for specific employee, we will use id ?

Faculty (Olympus) 05:42 PM

Yes, you can use other api endpoint to fetch data based on id. It will be shown in example

Sriram Kannan gl 05:43 PM

On the browser URL, can we always get to use only “GET” method?

Faculty (Olympus) 05:43 PM

Yes Browser allows only get

Faculty (Olympus) 05:43 PM

Yes on browser only GET method is directly accessible

Sriram Kannan gl 05:48 PM

can two restful services communicate with each other, or is always one restful service for an application?

Faculty (Olympus) 05:48 PM

They can communicate with each other

Malleboyena JayaKrishna gl 05:48 PM

what does faker method do

Faculty (Olympus) 05:48 PM

Faker will create the dummy data for your application

KESAVA REDDY KASIREDDY gl 05:50 PM

sir, how this data- for 100 names came

Faculty (Olympus) 05:50 PM

Faker class simulates this data

Adarsha N J gl 05:50 PM

Console shows Hibernate logs while inserting records, any relevance.?

Faculty (Olympus) 05:50 PM

We have enabled the logging in app.properties for jpa and jpa.hibernate. Thats why it is showing those logs.

KESAVA REDDY KASIREDDY gl 05:51 PM

meaning - dummy records ,, and we can edit later - right sir

Faculty (Olympus) 05:51 PM

Yes it is just we are inserting 100 records in database for our testing and more functionalities.

You can perform any operation on those records as you did with other records in db

KESAVA REDDY KASIREDDY gl 05:53 PM

sir please can you slow sir

Faculty (Olympus) 05:53 PM

put this in chat

Leon J. Thadamalla gl 05:54 PM

what is the difference between List and Optional

Faculty (Olympus) 05:54 PM

Optional avoids our app to abruptly halt when no record is found

P.KUNAL gl 05:57 PM

what does @RequestParam do

Faculty (Olympus) 05:58 PM

RequestParam annotation is used to pass parameters to your request in form of key value pairs like

/employees/name?fname=

Like this

KESAVA REDDY KASIREDDY gl 05:57 PM

Sir , how to get these pop up options, when typing,

Faculty (Olympus) 05:57 PM

ctrl+space

Faculty (Olympus) 05:58 PM

command+space for mac

Faculty (Olympus) 05:58 PM

ctrl+space for windows

Sayan Sengupta gl 05:58 PM

what is the use of required = false in request param

Faculty (Olympus) 05:58 PM

Required false means this param is not mandatory. It becomes optional

Amruta Ramling Katkar gl 06:00 PM

please explain the difference one more time

Faculty (Olympus) 06:01 PM

dif between request path and RequestParam

In the RequestPath we need to pass parameters in the Path itself whereas in the RequestParam we can pass it rhough PostMan ide also

Shivani Kumawat gl 06:00 PM

did not understand the difference between @pathvariabe and @requestparam annotations

Faculty (Olympus) 06:02 PM

RequestPath we need to pass in the URL itself whereas in RequestParam we can pass args through the Postman IDE too we have textbox option order can be different

Hammad Salahudeen gl 06:02 PM

canyou explain why we changed from EMploye of the function to object

Faculty (Olympus) 06:03 PM

Because findAll will return list of employees which is list type

And other method returns object as Employee

So we used Object so that we don’t get any error

Sayan Sengupta gl 06:03 PM

can we find with only either fname or lname with this api ?

Faculty (Olympus) 06:03 PM

yes for which we have to write or

Shivani Kumawat gl 06:07 PM

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—————————————

what about @PathVariable?

Faculty (Olympus) 06:08 PM

pathvariable is by passing the values in the URL itself and you can pass 1 value but RequestParam can take multipl args also RequestPath wee need to type in the path itself but Params we can use Postman IDE textboxes to pass args

Amruta Ramling Katkar gl 06:07 PM

If there are duplicate names, it will return duplicate names, if we give only one fname ?

Faculty (Olympus) 06:07 PM

It will return first record in that case as you are returning object

Maidily P gl 06:08 PM

How will the EmployeeRepository auto-implement our methods correctly using JPA repo when we try to use many entities/tables? (provided same column names are available in different tables)

Faculty (Olympus) 06:10 PM

We need to Create separate JPA reposotories for different tables

KESAVA REDDY KASIREDDY gl 06:10 PM

Sir, now, is SQL part, -POST Man is doing

Faculty (Olympus) 06:10 PM

Postman is only calling your apis and your application is doing all work by performing crud operations

Amruta Ramling Katkar gl 06:11 PM

If there are duplicate names, it will return duplicate names, if we give only one fname ?- we should return list, if we want to display duplicates

Faculty (Olympus) 06:11 PM

yes all records it would display it would automatically return List

Sayan Sengupta gl 06:03 PM

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Faculty (Olympus) 06:11 PM

SQL part is also handling at app level inside emplloyee repository class.

KESAVA REDDY KASIREDDY gl 06:14 PM

Sir, do need add - post man dependecnies in XML

Faculty (Olympus) 06:15 PM

no you have to download and install POSTMAN open source

Amruta Ramling Katkar gl 06:18 PM

whether we can write any code based on the processing or we can send any message explicitly based on these codes .

This question has been answered live

Amruta Ramling Katkar gl 06:20 PM

sending messages is more useful. but how can we send message . Where we will write the code ?

Faculty (Olympus) 06:20 PM

When you return something, basically either data or string message. You add that in controller

Sriram Kannan gl 06:21 PM

Does Rest API get impacted if the data volume in the table is very high in the DAO layer?

Faculty (Olympus) 06:22 PM

Yes your api might take some time if there is huge amount of data in DB.

Less data - fast api response

More data - Slow api response

Can we have all the endpoints in a sperate file instead of keeping it in controller

—> hav seen few examples where there will be seperate XML file which will have mappings of endpoints and controllers with method names. so got this question.

Faculty (Olympus) 06:26 PM

That is basically done in Struts framework where we generally put endpoints in xml and have different methods in controller.

That framework is very outdated and not used anymore by most of the companies.

Amruta Ramling Katkar gl 06:07 PM

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Adarsha N J gl 06:21 PM

Can we have all the endpoints in a sperate file instead of keeping it in controller

Faculty (Olympus) 06:22 PM

It should be the controller who is handling the request paths - endpoints

Adarsha N J gl 06:25 PM

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That framework is very outdated and not used anymore by most of the companies.

Amruta Ramling Katkar gl 06:28 PM

why j>2 ?

Faculty (Olympus) 06:29 PM

It should be less than 2. By mistake

KESAVA REDDY KASIREDDY gl 06:34 PM

sir, how to identify, which one to be added under which package

Faculty (Olympus) 06:35 PM

that sis straight forward all controllers under controller services under service , entities under Model, dao related under repository

Amruta Ramling Katkar gl 06:39 PM

yes. if we are just returning list, in that case can we use object ?

Faculty (Olympus) 06:39 PM

Yes we can use Object

but if it is always List, you can specify return type List only

Suresh Mudireddy gl 06:39 PM

where it specified to autowire the Bootstrapoconfig to have the EmployeeRepository dependency ?

Faculty (Olympus) 06:39 PM

It will take the configuration automatically

Shubham Sharma gl 06:41 PM

will we work on health points and info end point as well?

Faculty (Olympus) 06:42 PM

You can use swagger for generating docs.

For health point, you can create one endpoint which will tell you about app health status.

RAVI KANT KATARIA gl 06:44 PM

Sir.. Please advise when we see here for any data to be add we need to use some kind of database. But when we personally installed any software then they don't ask to install any software.So in those software do we use h2 database? or what kind of database.

Even like uber, dominos or zomato?

Faculty (Olympus) 06:45 PM

H2 db is in memory database used to test your applications

In actual, use any sql database which can be setup and use that for any db operation.

is there any possible to avoid multiple packages

Faculty (Olympus) 06:47 PM

No Packaging is right practice to implement apps

Sir, data generated by faker is it directly passed to SQL

Faculty (Olympus) 06:51 PM

We are creating objects using faker and we save that object to SQL

Like creating enployee object and saving in db

Can we have some examples on Scheduler job?

Faculty (Olympus) 06:54 PM

That is not part of this course

Harminder Singh gl 06:53 PM

can we create ui for this spring boot application rather then using postman

Faculty (Olympus) 06:54 PM

yes in another app using jsp/thymeleaf