Video 17. Spring Boot: Custom Interceptors / How to Intercept Incoming HITP Request and Custom Annotastions.

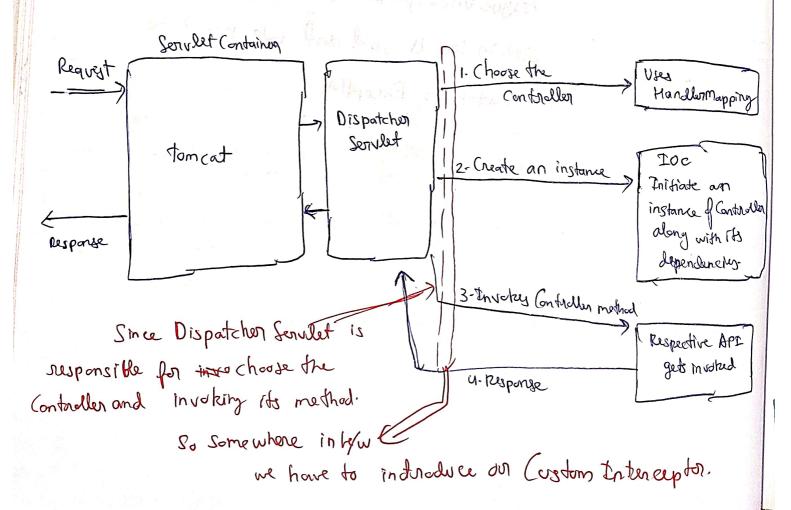
Interceptor: Its a mediator, which got invoked before or after actual code.

In potere topice we would need to write our custom interceptors.

sync Uncought Excoption Horden

- * Springbost (aching
- · Spring boot legging
- 2 Spring Gost Authentication de.

Lets Recall the Flow Diagram of Spring Boot



(Example) Arm don of magazine @ Rust (ontroller @ Component public class My Custom Interceptor implements @ Request Mapping ("/api") public class Vser Controller 5 Mandler Interceptor & @Overvide CAutowird public boolean prehandle ('-User user; Sout ("Inside prehandle") @ Greft Mapping ("4/get User") return true; public String geturn () { Counds Hagger !) User-getUsen (); public boolean posthandle (- reform "sucess"; Sout ("inside posthandle") Coverrido de la como de These 3 methods have public void after(completion(----) { to provide implementation Sout ("inside after con pletter") ex present in Handler Interceptor I TA @ Component hence directly insected by Spring @ (onfiguration) public class App Config implements Web Muc Configurer & > (in ten face) @ Autowired My Custom Interceptor my Custom Interceptor; got implemented @ Override puler void add Inter ceptors (thter ceptor Registry registry) registry add Interceptor (my Custom Intercaptor) · add Path Pattons ("/api/x") => All api having /api/-Specify paths to add an " " api/update Vson", "api/delete Vson");

avoid intenception). exclude Path Patterns (" " api/vpdate Vson", "api/delete Vson");

If you explore the code more.	
Inside Dispatcher Serulet-class	
Things matched with	Callette Seal Bell and
there is a method	ada,
26 Mangaran San James	
Dispatch fervlet # do Dispatch (·) {
try E	Company of the state of the sta
1) (! mapped Handler - apply Pre Handle ()) {	
Netoni	I pre Handle ()
- Tactual inv	cation of the Handler and controller and
my = hashan lla	-) . Contional
mv = ha-handle (== - == == == == == == == == == == == =	Digit Housem & you
mapped Handler - apply Post Handle	
Cortch (Exception ex) {	& PastHandle
	mind of all the first on A
trigger AfrenCompletion ()	Creb Esecution even I
coutch & (throwalle th) &	Similar to Binally Hock
	in Tava
\$. F	1 who can botton.
The control of the sent	alle green
Some law and a (" * /ian / ") south	Palaghor District
the Pathons ("api) replace has seeing in)	

Creating Custom Interceptor for Request after Reaching to a Specific class.

For Example

@ Gretmapping ()

public String getResult () > public days Upon >

Usen-get Answer ();

public String

public String

return null;

getAnswer () >

getAnswer () >

getAnswer () >

getAnswer () >

in Usen class gets invoked. The get Answer () method

Step1: Creation of Custom annotation

We can create Custom Annotation using keyword @interface java

armomation will be stored in I was

3 Manifere My Costom Annotation &

public class Usen {

@ My Custom Annotation

public void updatellson () {

3

7

2 Important Meta Approtation Broporthy are required in Meta Annotations: - Annotations which are applied over an annotation.

Particular annotation on method or class or constructor

illun notes

@Twrget (ElementTypemETHOD)
Pullic @interforce My Custom Annotorthan ?
]

if I want to use it over more than I place

Tonget (E Element Type. CONSTRUCTOR, Element Type - METHOD,

Element Type. PARAMETER, Element Type. FIELD?)

Public @ intenface My (votom Annotation)?

2) @ Retention: This meta annotation tells, how the particular annotation will be stored in Java.

F() ostaly propie

polle day Unif

politic permeature the is, an Are dated in

Rentention Palicy. SOURCE

Annotation will be discarded by compiler itself and is not even recorded in . class file [After Javac rompilation].

@ Parget (E Element Type. METHOD)

@ Retention (Retention Policy. Source)

public @ interface My Castoma Annotation ?

public class User {

@ My Custom Annotation

public void update User () {

11 - - - -

After Javac Compilation.

User. class

package

public class Usen {

public Vsen (){

}

public void update Vsen (){

}

Annotation not applied.

Retention Policy. CLASS

Annotation will be recorded in class file but during

Annotation will be recorded in class file but during

Touther will be Ignored by JVM.

@ Parget (Element Tyke. METHOD)

@ Retention (Retention Policy. Class)

pulic @ interface My (ustern Annotation)

public class User ?

@ My Custom Annotation
public avoid do Something ();
}

After Javac compilation.

Ven- Class

package --@ My Custom Annotation
pulvic void do Something () {

But it will be l'ghored

ROMY SURVEY

pulve juld upolate lyon

Reat Retention Policy - RUNTIME]

Annotation will be recorded in class file and also available during runtime.

with methods How to create Custom Annotation (which are more like) gields & No parameter, no body Return type is restricted to | Annotating are very light weight, herause as don't want & Brimitive type (Int, boolean, Louble etc) to extend its String · Enum · Class <?> => should be . class, Like String-Class - Annotations . Annay of Above types public class Uson } @ Tanget (Element Type. METHOD) @ Refention (Retention Policy. RUNTIME) @ May Custem Annotation (Key = " Via Key") public @interface My Custom Annotation & purer void update Uson () { 11 some logic. Value Keg in annotation is "UKAKE," String key () default "default keg Name! rated = ((miseral Signatura) fair lant-9(+)

Lets say if @ My Custom Annotation had multiple fields, then top: we can define in the following way

pullic class Usen &

@ My Custom Annotation (Int Key = 10, String Key = "user", classType Key = User-class, public uotal update User () } enum Key = My Custom Enum - ENUM_VAL)

ł

@ fanget (ElementType. M EtHOD) @ RestController @ Retention (Pentention Policy. RUNTIME)
public @ interface My Custom Annotations? @ Request Mapping ("Vapi") public class User Controller ? n in morning laboration String name () default "", @ Autowired Now now? @ Gretmapping ("/getUsen") @ Component public String getusen() { pullic class Uson & U sen- get Usen (); @ My Custom Annotation (name = "Ufor" reform "sucess"; pullic vold geturn ()} (C Asper) those agent types @Component Sould roll allog ! (autit 2m. 27 throwild) to not @ Aspect --- Aspect Oriented Brogramming Public class My Custom Inter ceptor } .. Cocation of the Annotation (Com-conceptand Coding - Costemintence pto-My Custom Annotation)) public void invoke (Proceeding Join Point join Point) Using this was got the method get Uter () it felf Truethod method = ((Method Signature) join Point get Signature())-get Method(); if (me that is Annotation Present (My Costem Annotation . Class))} My Custom Annotation annotation = method-got Annotation My Custom Annotation fatching the annotation. Sout (annotation-name ()); Using its pagameter) join Point-proceed (); Sout ("Caround after method call");