Spring Boot Annotations (Condroller Layer) Condroller, Rest Controller, Regust Mapping etc ("Recall this diagram) Servlet (ontaine) Request 1- Choose controller Vsa Handley Dispatcher, 2. Create instance Response Initiate anistance of Controller along With dependencia 3. Invokes Condroller mothod Respective API gets invoked 4-Response Dispatcher Servlet makes use of Handler Mapping which decides which controller will some the request. Lets first understand the Mappings.) @ Controller @Rest Controller public class Sample Controller & @ Request Mapping (value = 1/api") public class Sample Controller } @ Request Mapping (path = "/- " mothod = GET) @ Response Body pullic String get User Details () { @ Graf Mapping (porth="/fetch uses") public String get (son Returb () ? 3 3 @ Post Mapping (path="/Savelser") @ Request Mapping (posth = 1/- \_" method = POST @ Response Body Public String Save User Rotalls () } public String Saveller betails () { 3 3

@ Rest Controller = @ Controller + @ Response Body.

Lets suppose in the @ Controller component, if we did not add @ Response Body

@ Controllers

Public Class Sample Controllers

Of

Regulation Sample Controllers

Of

It will try to resolve the hame of the view- 1-2 thellows

The found it will try to render it on the

UI. (Postman or google chrome).

But with

@ Request mapping

@ Response Body

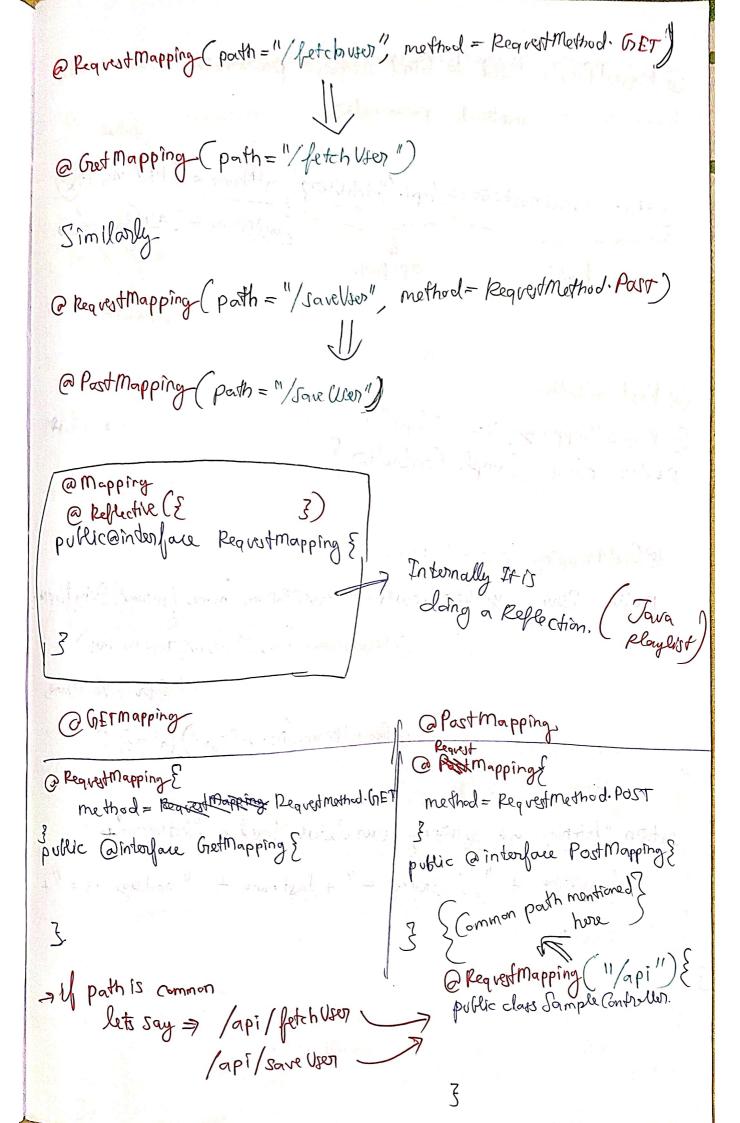
Pullic String get usor Details () }

The form "Hello";

The form of the player o

Since @ Restandreller = @ Controller + @ Response Body

Since O Restandreller = @ Controller + @ Response Body



Regrest Panam: Used to bind request panameter to contralle method parameter.

Note

http://localhost:8080/api/fetchUserg/instName = SHRAYANSHQ

host

apipath

Separator.

RestCardroller

@ RestCondroller
@ Regrest Mappines (volve="/api")
public class Sample Controller {

O Grefmapping (path="/fetchUser")

public String getUser Details (@ RequestParam (name="first Name") String first Name") String first Name (name="last Name") String first Name (name="last Name") String last Name,

String last Name,

@ RegrestParam (name="age") intage) {

return "fetching and returning user details toyed on first Name= + +

first Name = " + last name + " and age is = "+

age;

3

The frame work automatically performs type convention from the repost parameter's storing representation to the specified Jype, 1. Primitive types: Int, long, float, double, Goolean etc. · Integer, Long, Float, Dowlle, Boolan et Request parameters are by default duated as strings. You can bind request parameters to snow types 5. Custom Object types: We can do it using Registered Property Editor. How to use Broperty Editorn @ Restantialler (a) Request mapping (value = "/api") This binder is responsible Public class Sample Controllers for binding data as required). @ Init Bindon protected void init Binder ( Databinder binder)} binder. register Custom Editor ( String-Class, "first Name". new first Name Broperty Editor (); refortype. I this is the @ Gutmapping (path= 11/fetch User") Custom Brokenty Public String fonc (@ Requestlavam (nam="fintname") Editon. @ Reg wt Posam ("name = "last Nume") P.J. 0' @ Requestlasam (name = " age"))}

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public Class & Flut Name Iraperty Editor extends Broporty Editor Support S Dinera @ pullic void setAstext (String test) throws Illegal Argument SetValue (test-trim(). to Lower Case ()); @ Path Variable: Used to extract value from the path of the URL and help bind it to consulter method parameter / api/fetch/9 fintNone = SHRAYANSH& LastName = JAIND New way of @ Rest Controller @ Request Mapping (value = "/api") annotating directly public dous Sample Controller & @ Grefmapping (path = "fetch Vser / { first Name }") public String got user tetails (@ Path Ugriable (value = finst Name) String (instName) & vetoru (mayame)

Variable

@ Request Body: Bind the body of HATP request (typically Jeonph) to controller method parameter. Curl -- location -- request POST 'http://localhost: 8080/api/ Save Usen -- header (content - Type: application/json/ \_ Jata-Maw { "Usen\_name": "Shrayansh", -"email": "abc.ynail.com" public class Users @ Jon Broperty (" vsername") > String username; @ Rest Constroller @ Jean Chapenty ( 1 small ") @ Requestmapping (value = "/api") - String email public dass Sample Controllers getter() + Setter() @ Post Mapping (path = "/save User") polic String get von Details (@ Regrot Body Vser vser) { neston Usen. Usen name + usen. omail;

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Response Entity: Threpresents enthre HTTP response Header, Status, response body etc. Response Entity @ Rest Controller Header + Status + @ Request Mapping ( value = "/api") Response Body public class Sample Controller & @ Cretmapping (path="/fetch Uson") public Response Entity (String) get you Details @ Request Param ("finther String film thans) return Response Entity. Status (HHpStatus. OK). body (output) In the response we have multiple

parts we have body one, header, Status etc

Using @ Restantroller + 1 returntype String will do the Same thing.

But for @ Controller you have to provide Response Entity (String)