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Spring Boot 9AM
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Spring Web MVC - Part#2

*) Controller (class#method) gets executed/called by FC
[Path#MethodType]

Controller return ViewName (PageName , no extension and location)
If UI technologies are modified/upgraded/changed then Controller
code should not be modified (Must remains same).

So, it is not returning any extension or location. Only Returning
ViewName(String type) back to FC.

ex: Inbox, SentMails, Promotions ..etc
No Extension __.html, __.jsp, ..etc are not given.
No Folder/Location : /mypages/, /views/ ..etc are not given.

=>Controller also provides data (if required/ie optional).
Model is optional, if we want to show data at UI then it is used
else not.

Webpages -- static/dynamic

Dynamic Page: Page data gets modified, based on user/location/time

User:

Ajay login to Facebook
Vijay Login to Facebook

Location:

Google news (IND)
Google news (US)
Google news (UK)

Time:

cricket score
share market sites

Note:

Controller must returns ViewName
Controller may provides Model(Memory/data).

=> Model stores data in key(String)=val(Object) format

-----Model-----

key	value
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userName	SAM
loginTime	12:36 13/02/2021 IST +5:30
location	IND-HYD (--,---)

Q) If we provide .class file how can we read its details?
And how can we create object to it and call method
without using its direct object creations?

A) Reflection.

#10 FC reads ViewName and takes Help of ViewResolver(class)
that provides prefix (location of UI pages) and suffix(extension).

```
prefix = /WebPages/myviews/  
suffix = .html
```

```
ViewPage = prefix + viewName + suffix  
          /WebPages/myviews/ + Home + .html
```

#12 FC Finally gets ViewPage details and calls /executes UI page.

#13 UI Reads data from Model memory and replaces all expressions with
actual data (Data Rendering).

#14. Final UI(View) is given back to FC.

#15 FC send UI data as Response back to browser.

#16. Browser will display UI page.

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Spring Boot only takes care

FC
HandlerMapping
ViewResolver object

Programmer

Controller

Model

View

properties

- server
- view resolver details

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*) Servers (types of servers-2)

Webserver = Servlet container.

Apache Tomcat, JBoss Undertow, Eclipse Jetty ..etc

Application server= Servlet container + EJB Container (outdates)
Weblogic, wildfly, IBM Websphere..etc

*) Spring boot recommended and uses only Webservers.

*) Spring boot supports 3 embedded servers (no download and no
install)

1. Apache Tomcat (default)
2. JBoss Undertow

3. Eclipse Jetty

*) spring-boot-starter-web if we add this starter default server is provided as Tomcat.

Q) What is Maven Exclusions ?

A) [clear answer]

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

Q) What is CATALINA and JASPER ?

A)

web Server contains - TWO CONTAINERS/RUNTIME ENGINES

CATALINA - Servlets (Servlet object creation/execution of
init(),service(), destroy() methods)

JASPER - JSP pages(JSP--> __.java=>__.class=> obj, execution)

Q) What is default HTTP port number?

A) HTTP Default port number is : 80

Q) What is Spring boot server default number?

A) server.port=8080 (we can even modify)
using proeprties file

Q) What is Light weight tomcat server?

A) Tomcat contains only CATALINA - Servlets Operations
Spring boot comes with light weight container.

Q) What is PORT number and range in one System?

A)

PORT is a ID allocated to one Service running in one System
Range is : 0-65535, Reserved ports : 0-1024.

> One port number can never be given to two services.
