

=> last class ended our discussion -> Context-Path (Spring Boot) App

context-path in spring boot app is empty by default

To configure context-path for spring boot application
server.servlet.context-path=/app

We must specify context-path in URL to access resources(controller methods)

Today's discussion: Sending Data from Controller to UI and UI to controller

Sending Data from Controller to UI

Whenever client send a request, Controller methods are responsible to process that request and response back to client

--> Controller can response to client in 2 ways:

- a) With View (Using Presentation File)
- b) Raw response

Model object is used to send response back to client in view file

In Model Object data is stored in key-value format

The data again is accessed in view file using key

Expectation :-

http://localhost:9090/course

Course ID : 54
course Name : java
course Fee : 17700 INR

course.jsp

http://localhost:9090/student

Expectation :-

FirstName:	email:	Education:
LastName:	Phone:	Hobby:
surName:	Gender:	=====
Dob:	LastName:	
	mobileName:	

student.jsp

To send data from controller to UI pages we use Model Object

Model is an interface in Spring MVC

Using Model data is stored in the form of key-value pair

The data which is there with model object can be accessed in view file using key

Q) Can we access Object data in view file?

yes we can

Q) can we store one object as a value in Model?

yes we can

Sending Data from UI to Controller:

We can do

- a) Query Parameter
- b) Path Parameter
- c) Forms

Query param:

Request URL: `http://localhost:9090/service?name=Najafi`

Response: Najafi, Welcome to iNeuron .ai

Request URL: `http://localhost:9090/service?name=Hyder`

Response: Hyder, Welcome to iNeuron .ai

Query Parameter:

- > Query parameters used to send the data to server in URL
 - > In URL, Query parameters must be there at the end
 - > Query parameters starts with ?
 - > Query parameters represents data in the form of key-value pair
- example: `?name=Najafi`

---> What if there is more than one query parameter in URL?

yes , we can send data or more than one query parameter using & separator

example: `?id=1&name=Najafi`

--> To receive Query parameters value we always use `@RequestParam` annotation in Controller

Path Params:

--> Path params are used to send data to server using URL(in URL)

--> Path param contains values(no key)

--> Path param can be given at any position in URL

example: `http://localhost:9090/booksinfo/{name}/author/{authorname}`

--> To read path params we will use `@PathVariable("segment-name")` in Controller