JSPZWU

-> Stands for Java Siewer Pages

> Used to build dynamic web pages

-> Buit and on top of similet.

-> In JSP we can embedd Tava code within time and kne

> It is key component of Java Enterpolise edition

> Adv / Fratury

1) Usique pos siener side programming

2) can be und with senders to build business logie par any application

3) Dynamic contents zour be hardhol.

= u) we can use our own custom fage libraries.

= 5) TSP con m used to bild simple as well as complu web applications.

6) It follows MVC architecture to duckep an web application



Study material provided by: Vishwajeet Londhe

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TSP life cycle

life eyele regions to seem of steps that JSP goes though from its creation to distriction

0

when JSP is arred far the first time, the web container compity it into a service.

JSP code -> studets

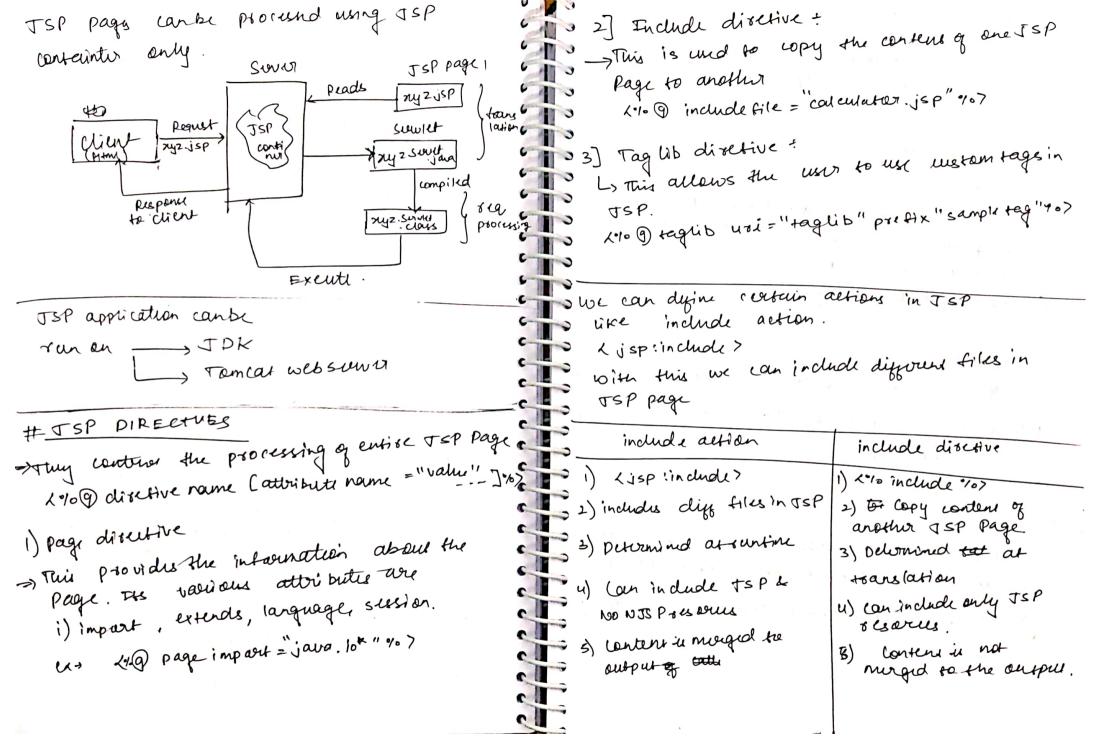
1 2) JSP initialization: { [init()]

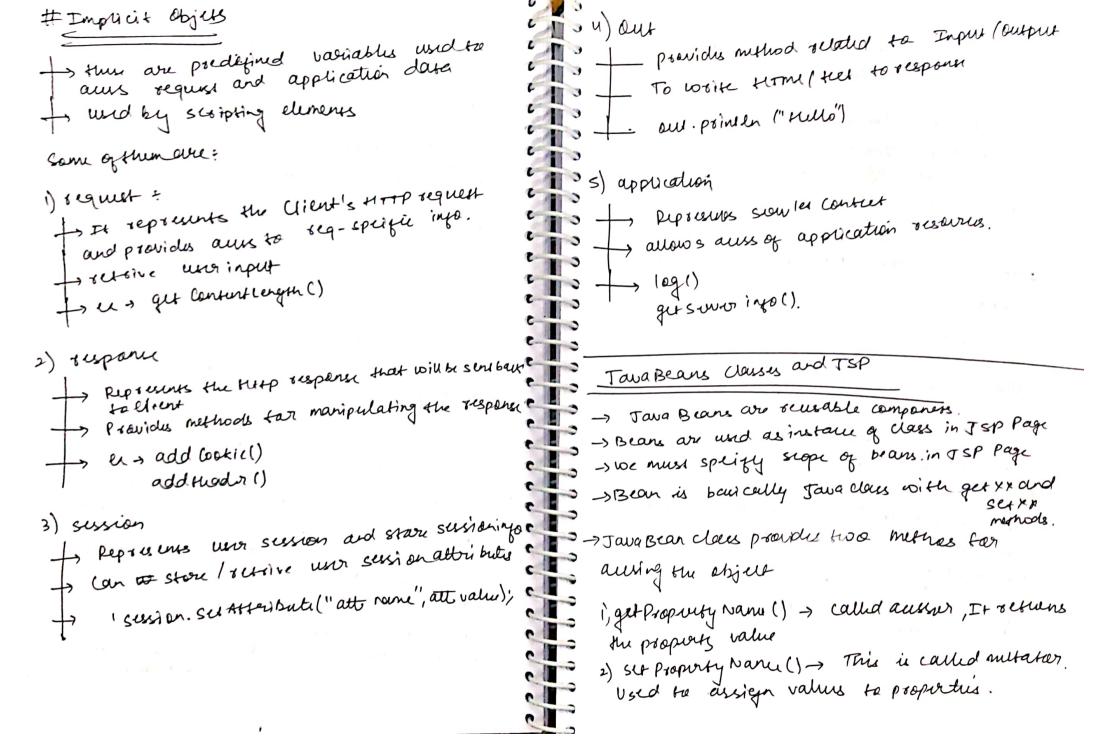
> In this stage 'init()' method is alled which is und for initialising resource, suchas database corretions adets. This is called only once and during life cycle.

3) JSP Exention & Sourice ()] waster initializing the now JSP page in really to handle in caming orquests. tune "sunice()" method is invoked which

Process the regust, executs the TSP rode, produs dynamic content and products time response which is sent to the sea client

JSP Destruction [desperoy () = [destroy ()] That south & disterey () method is called when there is no med of JSP page. This method is used for velacing the susovers held by JSP page only called one





JSP aution tage for speial tage unain TSP to projourn dynamic actions or execute Java code within the page

som reample is "xjsp:unBean?" tag is und to aus Java Objects, (Java Beans) within JSP page. without writing uplicis java code

=> If eliminate the ned for manually instan representing Jana Objects in JSP

#_MUC_arch.

logi

Lis The It is duly moduly JSP

L) MUC => model view controli

La Basic idea in muc design model is to septate aut disign logie into there pares sm, v, c

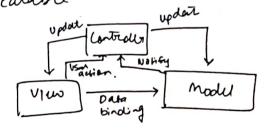
La Amysumer applica. can be divided into swee categories 1.0 model, view, controlor busines prusers request processing fun

model + Is is centred with the buinus vogis applied as the application date 1.e code lugie. It represents application data.

2) View: It diass with presentation, how the application will look ! This responsible ! ey. backgrund color, fort. for dupicying

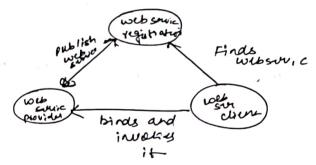
3) Controller: Is in also called request processing it just combines oursies lage and presentation i.e (model & view) It is done in order to get response. It reiners user input and translate it Into actions to be preyound on model or ulus.

+> sepratu busines logie (pour 4 zeg tran +> Independent des clapment -> Reusable model -> scalable



- 1) They are software system their are displayed by web branser using web protocol
- 2) They are software systems that allow diff applies to come and exchange diff applies to come using protocols.
- 3) Thy provide platform independent and language -neutral approach.

U. > Covering Converter Coedit card validation system.



components & Architetury

2) SOAP -> simple objaces protect (xml band)
L> allows vehange of misseging over HTTP.
L verd for it change of information.
L, define rules and stouture for

- 3) WSDL > Web Shewie Discription (anguage.

 und for abstrall discription of
 web shewies (ducibes the web showice)

 web shewies (ducibes the web showice)

 uint matter reals this discription and

 uint stand what input data is needed

 to pregion web sherice.
- 4) UDDI is Universal disting Disvition and Discussing Integration with services Light working of with services which were regulard and from these which were regulard and from these sorius client can pick any soon. Services

4) XML - gar data discription simple xmc File.

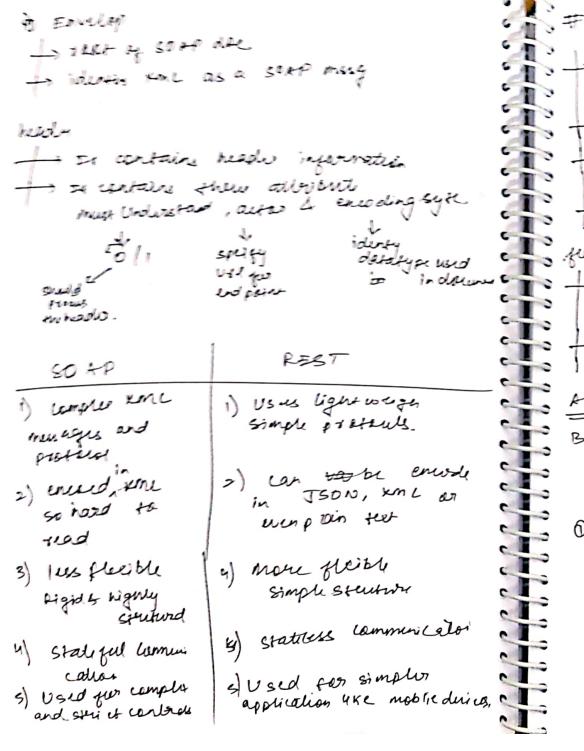
SO SOAP XML

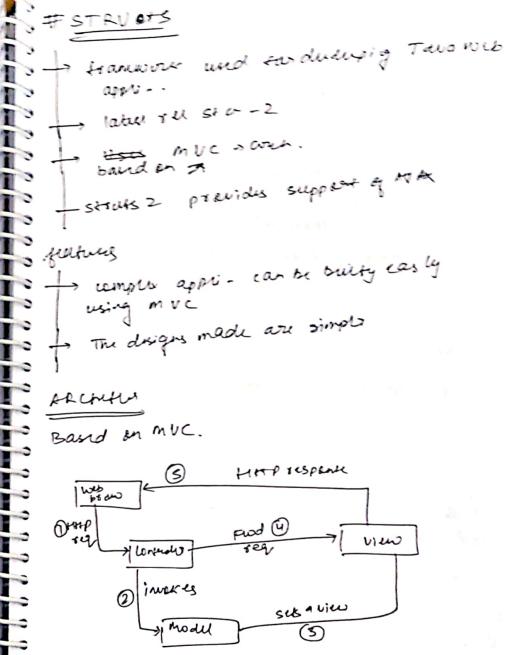
Envelop |

[mag] |

[body] |

[Faut]





CONFIGURATON -) two main piles are used that are strus, and and web, xml. Stouts. Rml +> prinary configuration file in Struss 2 + responsible for defining ownedy Struture of application. L'enfiguing

web. xml Java I, std config. the unding EE applications

to speigis mapping between UR is and autos.

corrus actions, into ceptos etc.

In sturks 2 data tags are und to manipulate and display data on web places

- 1 s: proporty >
- LS:547
- 3) LS'- Her ther >
- 4) LS:147 L (S: ULL)
- LS:USL) -> COCOCTO OF GOT actua.

, #_INTERLEPTOR It is a feature that allows you to Interest and modify the behavior of regus processing place. They are used to perform operations like authensialer, validatur & exception harding +> st gus cathol It is existed byork after action existion. Some Interrupts (predfind) in Stouts 2 1) Chekbar -> roundle chekbox inform 2) cookie -> adds cookie to curentaction 3) (reatisussion -> 1 seats Hosp susion object 34) Charsession -> unbinds 144psession Obj. E 5) validator -> pravidus validadios support. - Cotte custom Interceptures Two ned intreducintor ceptus swhich contains a method intercep() -) which calls invok () method point exc They tres

