



Advanced Java

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JSP

JSP is outdated.

Servlets = business logic* + presentation logic

JSPs = presentation logic* + business logic

JSP is translated into Servet while execution.

1) JSP Syntax (Other than markup)

@<%.@%> > directives >> Page, include, taglib

B
∴ ispInit(), jsp Destroy (), Relde,...

© </.... /> > Scriptlet → java statements - reg. handling

@ <1. -- ... --1/> > expression

by java expression - req. handling

comput added to resp directly.

e <1. -- ... --1/> > server side comment

2) JSP implicit objects

variables available in

reg Mandling stage.

internally-local vars at

-jspService() method.

@ request: HttpServlet Request

(B) response: Http Servlet Response

@ config: Servlet Config

(1) Session: HttpSession

@ application: Servlet Context

(F) page: Object (this pointer)

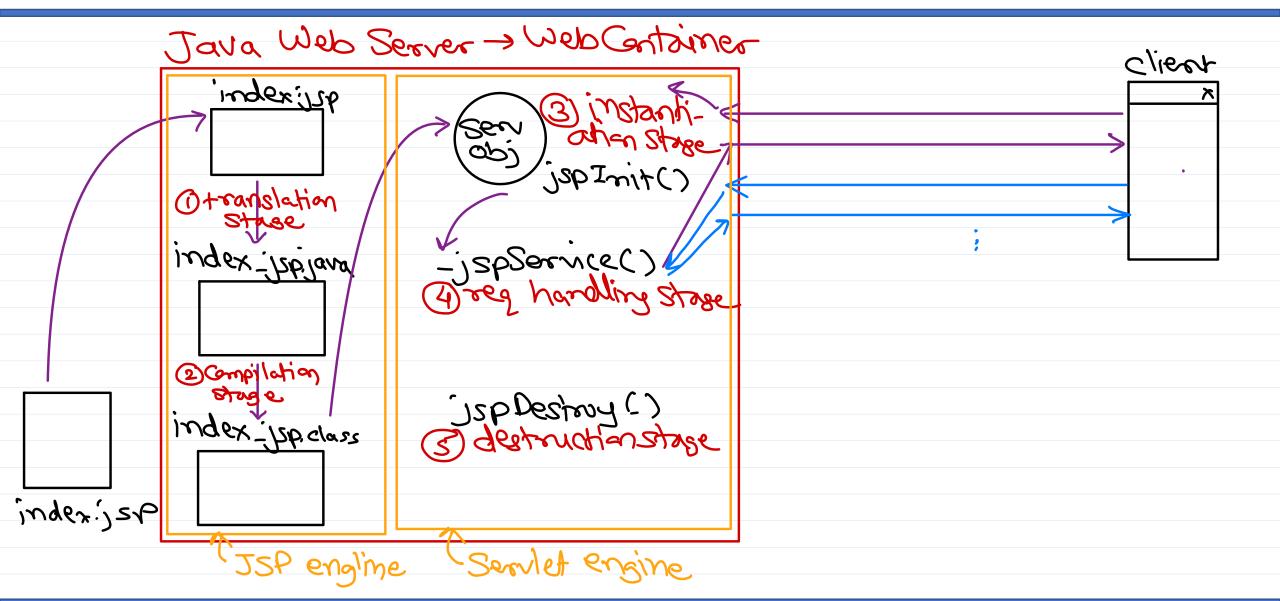
@ paseContext: Page Context

(F) out: JapWriter

exception: Throwables
avoil only in err pages.



JSP Life Cycle





JSP

JSP file should have presentation logic i.e. markup syntax (tags).

Ideal ISP do not have any java code in it (i.e. scriptlets or expression).

To reduce scriptlets from JSP Pages:

- 1) JSP standard actions
- 2 Java beans
- 3 JSP EL
- 4 JSTL togs
- (\$) Custom tags

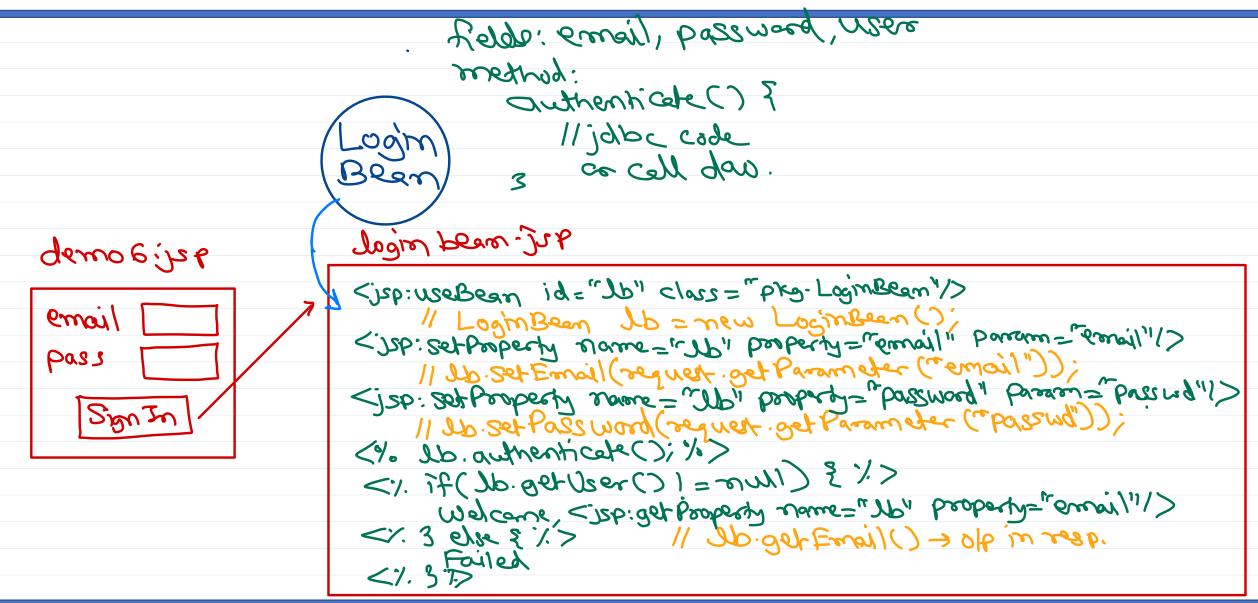


Java Beans

Java Bean = fields + ctoo + getter better + primer podic sustand 3. Adds , colcres 15P colcisp enant (jetonte Lisp: useBean id="cb" (Calc ກາ: class = "pkg. CalcBean"/> seroff 3 ontbops Ob. 7 (Bean) Sethooberly wome=CP,1 **ຠ**2: spoutsour , R&: = Ctor (param less) beobered = wany, bases = wany 9 etters setters <isp; set Pooperty name="cb" 3 () Stownlos bion Use been in Java beoberet = "enness", boredus = "enness")> Psuedo code <isp: Set Property name = "Cb" Calc Bean cb= new Calc Bean (); beoberth = nobin based = nobin > CD. 26+ young (sed . dot bacacastere (some 1,))! field name 2 reg param name CD. SEt Mun2 (seg. get Parameter (" num2")); <1. cb. calculate();1.) CD. 26+Ob (sed 'dot bacaceretere (ob ")); <726: 304 barberth Name= CP, Cb. Calculate(); beoberth= "rearty"/> print In (cb. getResult ());

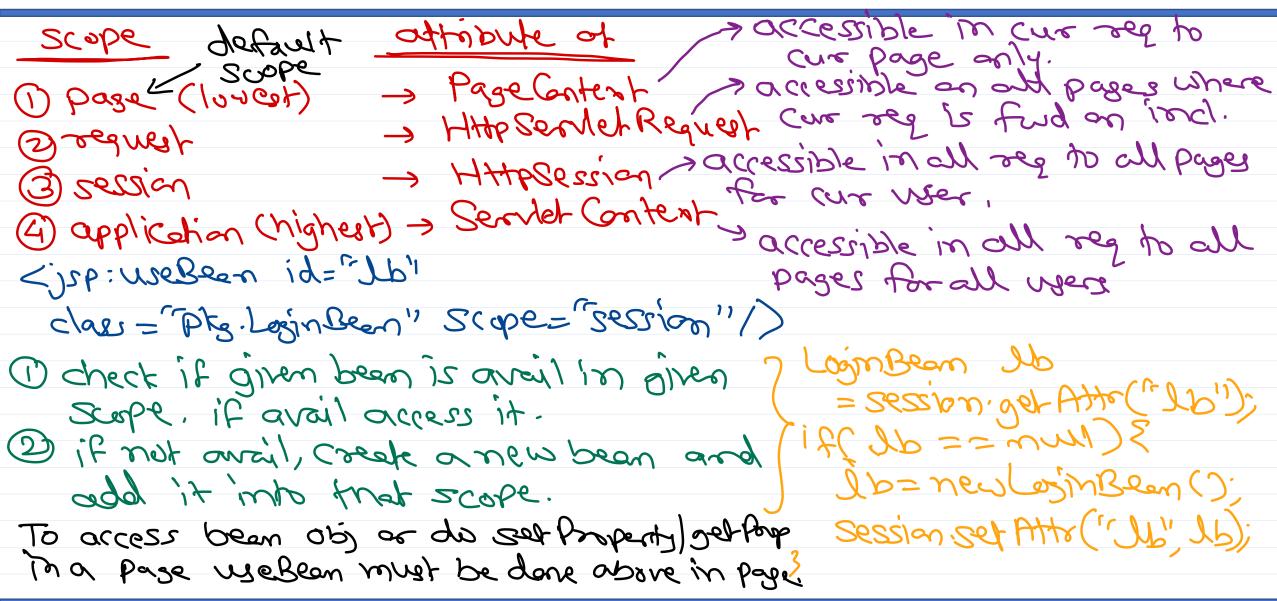


Java Beans



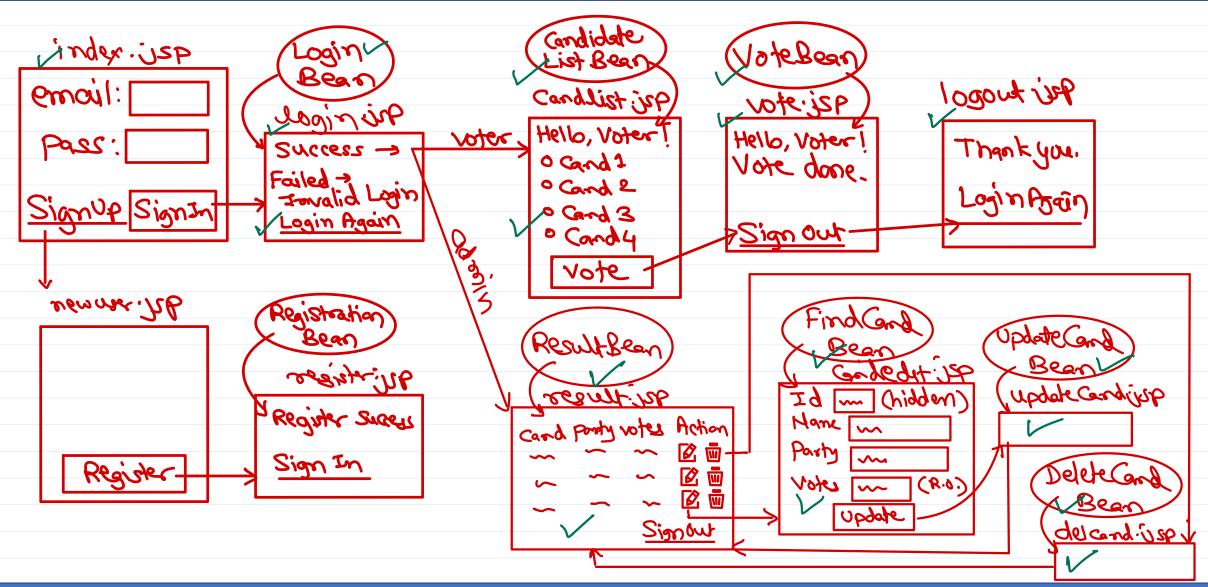


Java Bean Scopes





Election Management





JSTL

- predefined tag lib by Summicro system.
- JSTL 5 main Components:
- 1) core -> redirect, vars, if, choose, for Each, ...
- 2 fort > oumber/ currency | date formathing
- (3) functions -> String ops e.g. length, ...
- (4) xml > sent generation & parsing.
- (3) Sql -> execute Sql queries from Jsp pages.



JSP EL → \${ expr}

applications

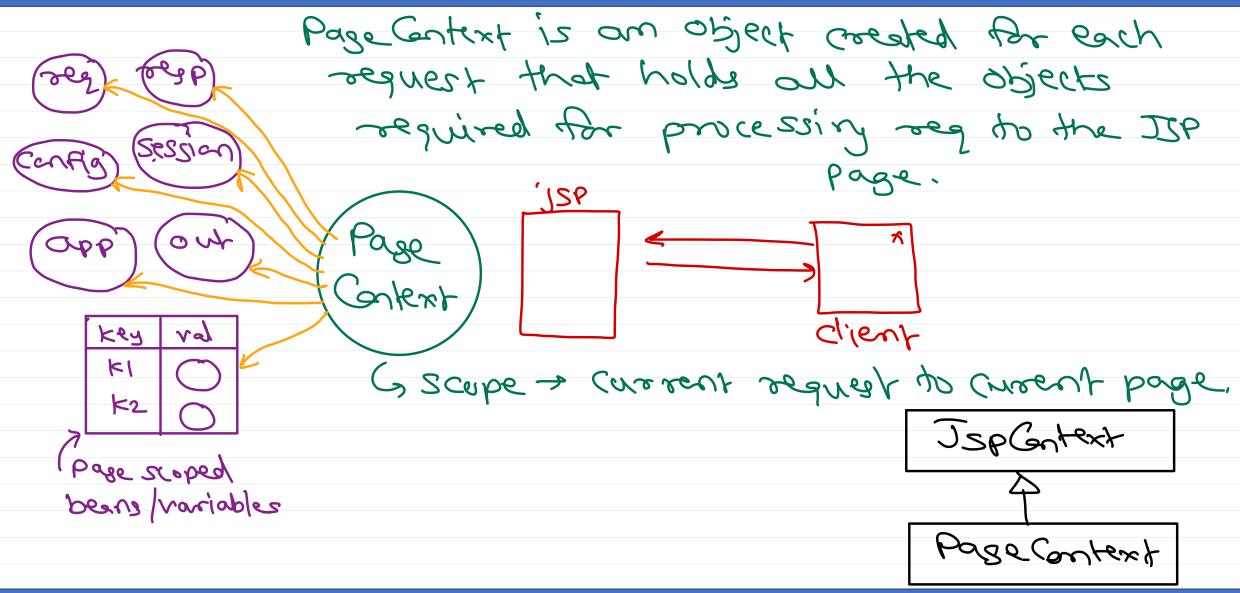
- (1) one bitrosmy controllations. \$ \{ 2+3*4} \$ \{ 22 div 73 .../ \$ \{ 22 mod 73.../
- Scabe. (5) Cou access opique and

\$ Epage Scope. Obj Name 3
\$ Exequest Scope. Obj Name 3
\$ Exession Scope. Obj Name 3
\$ Eapplication Scope. Obj Name 3
\$ Exession Scope. Obj Name 3

- 3) can access fields of objects (via gotters). \$ Eab; Marne. field Marne 3 & obj Marne, get Field Marne ().
- 4) Can call onethods at
 - \$ 2 opj Hame. seethul Hame ()}
- \$ & Param Pare } \$ & Param Value. Param Hare } \$ & Cookie. Cookie Home?
 - \$ & init Param init Param Harne 3
 - \$? header header Hame 3 \$? header Values. header Hame 3
 - \$? header Values. header Ham \$? Page Content. ___ 3



PageContext







Thank you!

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