Servlet Question O What is Servlet? Today ne all and aware of the rend of Greating dynamic web pages ix, that Change the Veite Conferle according to the time according lo the request received by the client. In Jana there is a another wary to do Java. Coding & general a dynamic seb pages and they way is journ Servel. Jewer is jothing but a Computer,

Server is jothing but a Computer,

Server is hosted in a cloud. -> Servlets and capable of harding Complex requests obtained from the websiever dans Server. Servlet is outso, a Interface.

- wether type HHPTUSK Twebserrer web browser HHP Response ~ status code > Content type Actual Content Flow of working servlut request to the webserver 2 - The Deb server secures the 3 - The webserver passes the signist Corresponding Servict. 7- The Sembet procues the requiet ond generatus the response in the form of Jourput. In the Servlet Sends the original back back display it of the Screen why whe use Servlet To devloping a dynamic web page of to provide the facility of dynamic inche pages, meb pages quell a container or web server.

Advantages of Servlet Server is faster they call as it does not involve the conection of a year process of a year process Jenvlets, writing iz joura, & it pland platform - Independent! Josephel Dougnot our in a Suparate procuss for Coentingla new portcuss. This also larved the memory and allows a berelet to easily manage the client elate a what is web application? Inthome application of the provided by a third party is a stormed that provided by a third party is accussed.

That rays of sorver, and can be accussed.

That rays only web brows er with any device.

The any only web brows er with any device. to usered uith an lactive notwork. 中人人对此种种

I what is the difference between application.

Server and web application. I he Server is a Central repository and computer pring growing and computer pring from programs and should and accussed by the programs withing the redwork. Web Comer ind Server ahich employed to Web Comer ApplicationServar web Server A mel sorrer accepts -> An application convided of store request offering expose business legic to the clients, which generals content (line, HTML page) I in a since the files, images, and videos) - 11: Files, images, and videos) Framework that transforms Jon a hubsit! data to provide the 7 web serves expose Specialized Juneticyarity busings logic to the offered by a bassiness, clients Juhich general service Vor application. hardle Http reglingts & suponse . ruy. application Server selves only webuse several protocols. based apprications Martithreading) to support martiple d'regnests in a paraflel.) ale Support for martithes reading .

(4) what is generic Servlet ? -> closs I Generic Cerrlet Implements the Servet inferface and provide an imprementation Jos all it's method except the service() method, it is a abet once method. abet out method. Japandent (Http-lass) servlet, De Dand HHP protocol, in their case, we must extend thepsended ushed of Genoriconsh I too making a class servber by extending GenericSimilet is very easy because we have to provide Implementation only for the service () yethod. pacuage (Javax. servlet. Generic Servlet). Class person extends. Generic Servlet interfact public void service (servertegnust reg,
servictlesponse rusp) throws Sewlet Exception, 10 Exception. This method is automatically) Called by
the server whenever a request for a
Generic Servlet arriver

too parameter The Service () method accupts (1) A sembet Reguest Object 2) A servluttesponstObject. A servled Request object ellows to request and data providual by the client request and the servled Response object is used to send the response to the cheent.

web xml File. web xml File Java und application use a file to determine how URLS map to Kervlets. This films gamed neb. xml and resides web.xmI

Classus

WEB-NTF

percistence [webapps] It is a file which give (onfigaration) ra fort

(web-app) (soulet) The plane (servlet-class) com. ty. mysarvlet (1servlet-class)

(servlet- pame) myfirmsonvlet (1 servlet-pame) (Iseniet) (Servlet-mapping) (Servlet-Jame) Myfirs4Servlut (Iservlet-Jame) (ure-pattery)/mycarrlut//ure-pattery) - app) 5) what is . Httpservhet? abstruct class HHPSenvlet is an abstrait class & present Javax. servled. http. Httpsenvlet. the Hatpsenvlet Class and overside at least doput, dooption, do Trace, service, service]. Class and Implements a Serializable Interface.

void dopost (HHpServlelRequel reg, HHpServlelResponse, void doput (")", ");
void service (", "); Void Service (Servetlequist rig , Servetlesponse) of Difference between dopet() & dopost() & dopost() of to handle the UFT request of the Server-side. This method is automatically supported. The GET type request is usually used to prupose cuss a request in the encrypted // fast syntax: protected void dobet (HttpServletkegust reg) HttpServletResponse resp) thrus servletException, 10 Excuption. - do post () request of the server-side. I This method allows the client to Send date of unlimited length to the webserver at a lime. The post type seguest is asnally used to jost-procuss a sighiest. -) Secured . 1810m pro-lected void dopost (HHpSenvlutRegust HupsenvletRupouse rusp) throws SE, 1007 100

sorver class, its automatically not supported, we have a form autically not supported, have ahungerer me are giving a Submit button by defaced [dohet()] is Callad., So avoid this Captrict we have to use post nothod inside the form action, like.

(form action = "will method = 'post') and HffpServlet. difference between Genoric Convert Generic Servlet Httpservlet O Generic Servlet is protocol O Httpservlet is protocol Independent which can be dependent and used only with Http protocol. 2) But service () in the servi used with any protocol; 3 h Generic Gentlet 3) Hillpserviet extends GeneritServlet and Implements the service () method is abstract. a Serializable Interface. (9) HApsenled auso Supports 3) Generic Cerrlet extends doGet(), dopost(), doffead(), tyect class and Implements doput (), dooption (), dopelet (). Dervet, Serviel (onfig) & Serializable Interfaces. doTrace(), methods (1) Generic Servlet Supports long (not Contain de Get ()

(8) what is deployment descripter?

It is an Jile: used by the Servlet Container

1. define. which Servlets match up with

which ORGS: The entire life cycle if a servlet is many, by the Servlet Container, which uses the Javax servlet container, which uses the How the servlet Container manage the Servley The nebbrowser send the request to the Server, when it will receive the first request. O load class in to the memory (loading service class).

(2) After loading, class in to the memory, it instantials (service class (creating object)

(3) Initialist the members (init()). Triggue Service method (to Serve the people)

based on the roof request,

the service method is (alled) (5) Dustroy Servlet.

Loading the servles class in to the memory 1 Instantiate: After tracting the Servlet Class in to the memory it Create as instance of the Servlet. To Create a pew instance of the Servlet, the Confaiger usus the no-argume Constructor.

Intralizing a Servlet: After the servlet is Instantiated Successfully
the servlet Container hidializes the Instantiated

Servlet object:

Servlet Confairer hidializes the Instantiated

Servlet object:

Servlet Config)-[one

Jor servlet:]

The servlet fails to initialize, they if

informs the servlet Container by through

the servlet Exception

mothed:

Manufacturery

The servlet Exception

mothed: 1) Trigger Service method: After initialization the serve is sealing to serve the client requests.

if proform the following operations will, HAPSimlet Regionste

After Creating the regards and superice object is invoked the sarahet-service (
Service (service the sarahet-service) by pressing the request and response objects.

(5) Destroy service when a correct Container decides to Destroy the servlet, it perform some toxy Dearing of the Service withed of the sordet instance to Complete their Jobs. Completed their Jobs, the servlet Container Calls the Distroyer method of the Servlet Instance After the dustriges method is executed, the of the servet instance so that is becomes eligibie for garbage Collection. -) init()

-) sorvice()) dustroy(). (nit() => | service() => | destroy() called called only bused on the no of request he service method is called

Start Loading and Instantiation init() Mitializedic, Ready for Service End of regult (Service () destroy() (End of Life cycle) (END Servlut life cycle [Led a Dieberg as Landing Landing Last to the test of miled in Italy of the many of and the second of the second o to the state of th Market William of Committee M Police mail of the set.

Reguest Dispacher is an Interface that Comus under package Javara-Servlet.

This Interface we get an object in (served after receiving the request.) Using the Regula Dispacher object we Send a regulat to other resources which helpede (H+mle, Jsp file). Jonand a request to the resource or to the resource of to the resource of a response. The resource Combe dynamic of statoc, To Greate an object of Reguest Dospachier. ReguestDispachur reguestDispachur = 8 eq. getReguestDispachur = 8 eq. getReguestDispac I request is the HIPServlesRequest type object. Dett is a String Specifying the pathname

1. the resources of the specifying the pathname

1. the resources of the specific ve

[regust Dispachers forward (reg, rusp);
] Iron a Server to agothur resource (Jspfile, Hfml) 17 the server. -) if ail reloading the Same page (include)

Include [requist Dispachus. Include (reg, resp.)] response of resource (for which the request passed services, Jsp page, html page) in the Carrent Servlet ogpons. 12) what is welcome tile list? I you don't suppry la Tibe, pame while lauling the project of the browser, the tag (neucome -file-list) is usual to define the files that will be Called by the Son by default. indea. html 1 H Contains indem. htm indem. Jsp inden. html defaut. html de-Jacut. hetm de famt . Jef

The element 'load-on-starting's used to load the Servlet. The void inst() method of servlet get executed when the Server Jets started. The element Content of load-og-startup? is integer. leads served at any time. The Container Servert the integer is o or positive. The servert and lower lotegur on leading before servets morned with higher integer. what is printiviter? In Servlete the output Can be cether Chimaiter of byte. For characters data a can use point Writers, for this use Sciriled OutputStran Printwriter of prints tend data to a Character Stream. Jetudnitur of Returns a printidritur object that Cay send characters tout to the client. [Printwilir printwriter = resp. getwriter()]

Can be use for Session tracking. URL Re-writting Hiden Form Fidd Cookins (Rmall) Sussian (HAPSussian) I hat is among storing?

If jung storing is on the og URL to the sight of the U path to the Servlet. Using this programmer Can know the date which is Sent From the client. are separated by (&), and the fields Home) uses = mader & 10=123 B) what is HftpSwrion? Hetp Session is an Interface in terms of

Hetpsession in terms of

Len and value pair [string & object] Sexion Francing which means maintaining the State (dast) of the uses. y order to recognize him.

How to Cruente a Https: wing Object?

How to Cruente a Https: wing Object?

Any kind of object Can bustoned in to.

Sessing, be it a tend, dutubuse. Secring is not dependent of the client, browsend.

() Secring are Secure and bransparrent. HAPSuring susing = veg. god Susin(),.
Sussing. Set Albribut ("in); Cooking. is cookies and how to Create a uebsife, it can not store object. your brienser. Stone at the Information is Some linformation is Saved in your local System So that which you visit the Same medsite again, this arebsite is absented seconding to your preferences. internet history and being used in the internet history way long developed in a magnificant way.

Julien you vist a websitu gan acetually sequets the new page from the Server. Severy teques is a unique sequest. So I if you vist hurdred times, the Server wish hurdred timus, the Server will Consider reach and dem land er you. I will unique! Here client will bend the first request to the Server and Server will Exent ela Cooking (Small information) & Servar will Sand the response alongmith Cookie. and client will secure the response and cookins & store it After that whey client will bend the Second request to the Server, it will sent regnust las mellas Cookie (Same Cookie whentever bervas hes given so charge). & Server will wentify that & check that Cooking, years the client has visited before & if the data is valid they the server will give the valid response according to you as the server will be cognize you

Tookie [Server] Drawbacks of Cookies > They can only keep tentucel information I they are browser dependant fance If the client disable them, your neb apprication Can't make use of them. it can not stome object. > Hs not Secured

20) what is Servlet Content? Service Confainer do share initial parameters apprication. for it a property. Longe I Sembet Centerel is eyesfor applicating luppose, ore jame of the job portal
is a New Website. tg" Showing the website jame different bestbets, oge reads to store to website pane in every servled, iquiting bonce the information should by Sombet Content Can be accussed by every bendet, it is better to go with I servled (optend and retreseve the mebsite jame neing get Son le Content. gethilfaramet is ("(Mare). the same of any and a second to the part of another one the Jik spectant and come field as demonstrated by the (1) some first feet there were the property Con Freshor be refresh the training

(21) What is ServletConfig ! means one for servet! I Servlut Config is an object Containing lone initial parameters of Configuration information Greated by Servlet Container and passed to the Servlet during initiarization. Service (enfoy is for a particular services,

that means one should store services

specific reformation is web xml and retrieve

them using this object. I One Servlet any home mutipre init parameter and if Can stone the data in key and value pair. Suppose, one is building a job partal and Dusions to show different email ids (which may get change over time) to recruiter I may Job applicant, so he decides to write two servitets one for chardling seconifies's and another one for the Job applicant. put enouif-id as vane-value par for different besteld incide web. Inch which can Juster be setrived using getsendet Config()

Servlet Centig W. get Init parametr ("nui"); public class Reconifier excludes HAFServleil {

protected void doGet (AffpServleiReguet requet)

HAFServlei Response supportse) throus

Servlei Exception, 10Exception. String email = get Servles (onfige). get hilfmant:

(" Email");

String website = get Servles (ontext(). get pararetor

("hebsite-nant"); pointh situal out = suspense. get Writter().

oud-pointh ("(center)(hi)" + website + "(|hi) temail); 7 So Semlet Cartent parameter, like (Content-param) is contside of (surver) servlet af reveribre Iron whole app. Die Chaled Conte

(22) Difference between ServbetConfig & SerVlet Content: Servlet on fig (object) by sowle SewletContent -) Similationlevet is for > Servet Cofig is Sombet whole application. parameters of KonletCortens are present as key--> parametre of Serrbellety value pair in (contabutare possent as key-value parami > which is pair in (Enit-parem)
uside (servlet) outside of (service) and inside (web-app) > ServletConfig object is > Servled Contend object abject obtained by is obtained by getservletContent () method. gets Servlet Config o method Its own Servled Config object -> getSesotet(antende) -> Use Santetlastig when is only one and wind oning one Sewled jeuds information should by it by different servlets the application) Use Sentel Content newds information should by it.