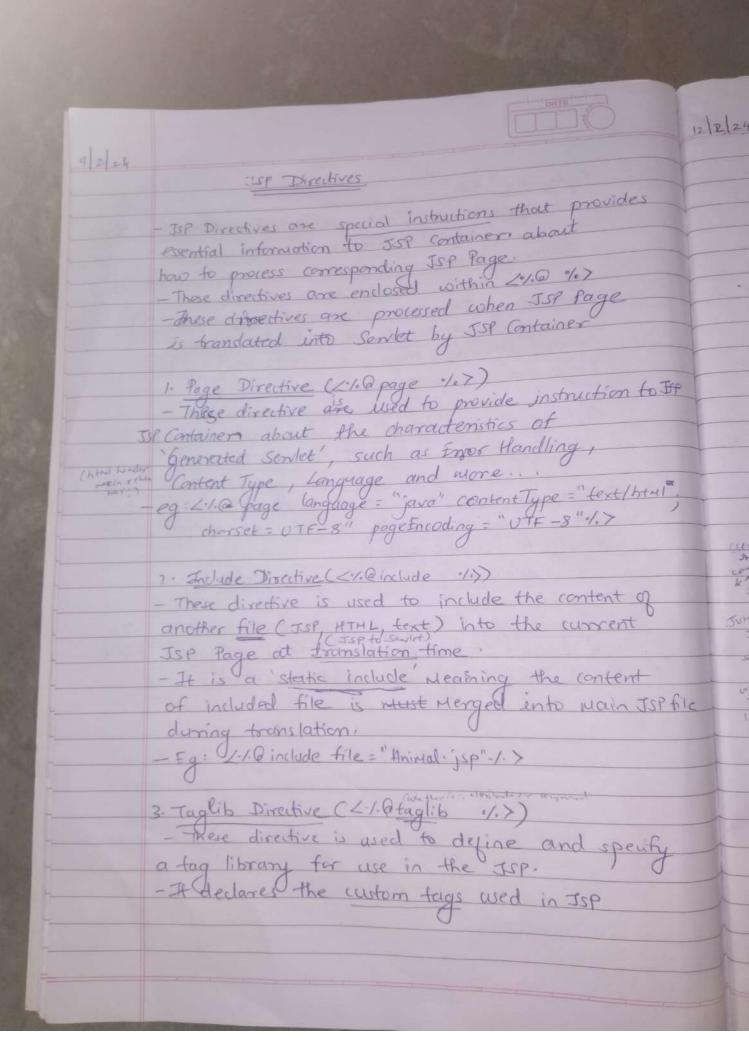


Fishere JSP files coill be stored in Flaven Project? JSP files will be stored in Servicet moven Project ain websupp folder (sore - Hain - webapp) of whatousedment of the want for design response for user use MTHE (State response & MTHL) when we want to design response for wer by using java logic it is recommended to use JSP (dynamic response -> JSP) These are special constructs used in Jop files to dynamically generate content or web pages) (in matile) - These tags allows developers to embed fava code define variables and methods, include external Java Beans. (Concept and the manufacting with ockreal sensers) - JSP tags are categorized into different types 1. Declaration Tags 2. Expression Tags 3. Scridet Tags

* Explaination for: corporation

1. Declaration Tag: - These are enclose within 1%: 17 - It is used to declare variables & methods - Declarations are placed outside the scrvice ()
(Pincide the servet class) * Explaination: - It means declaration inside 6%! 1/2 are placed outside of any method & within servlet class, Meaning, they are directly within class body and autside of any Method. - Declaration tags defined at class level making them excessible throughout the servlet class. 2. Expression Tag: - These are enclosed within 2010 = 9/0> - It is used to evaluate expression and output result - It automatically converts result to String: 813. Semplet Tag: - These are enclosed within 201. 7 which allass dynamic content generation.



JSP Life Cycle - JSP is extension of Servet - In JSP application - In JsP application, the likewell refers to sequence of steps that occur from the time that ISP is requested by a client to the time the response is sent back to client - Below are key stages in the life (yde of Jsp 1 Compilation Translation: - When a client sends a request for a JSP Page, the JSP Container franslates uction to Ir the JSP File into Servet - The translation process involves converting JSP elements such as HTML and JSP tags unto Sava Equivalent lode to create a Servet class text/btul" - The resulting servlet class implements 4TTP servlet interface and contains the logic to handle request) & generate response The generated servet class is compiled into byte code ent of by Javac Compiler ent The compiled servet class is then loaded by a JSP file astoney sentet classis (rested) 3. Initialization: - Upon loading servlet class, Servet container initializes the servet instance by calling init() ichy - The init () is called only once during Servlet's white cycle I like Time

4. Request Handling: - when client sends request to JSP Page the servlet container invokes services The service of processes the request including retrieving parameters, executing Java lode and generating dynamic content to send back to the 5. Destroy: - When a servlet container decides to remove remove servlet instance, typically during application dutdown, it calls destroye) - the destroy () allows sendet to perform cleanup tousk task, release resources - After destroy is called, the servlet instance is eligible for Garbage Collection 6. Garbage Collection: - Once the servlet instance is not longer in use and there are no more references to it., Java Garbage Collector can now reclaimed memory occupied by semilet Instan Jsp Objects are predefined Java Objects provided by: provided: (provided) by Ist Container to facilitate dynamic generation within JSP These objects represent various aspects of Fr Jip envisonment, including HTTP stquest, response response, session & more - Jip objects allows developers to interact with sendet Environment seamlessly without needing to Manually hundle servet API objects.

(relate). Also monetin, statement, parpased statement etc) These objects are typically allessed directly within Jsp Pagesusing predefined names: and they provide convinient methods and properties to perform common task such as retrieving request parameters, managing session attributes, generating dynamic content and controlling flow of application. request, response, session, config, page etc. istance