



# WELCOME

# Servlet

- A Servlet is a Java program that runs on a server and is used to create dynamic web content.
- It acts as a middle layer between a web browser (client) and the database or business logic (server side).

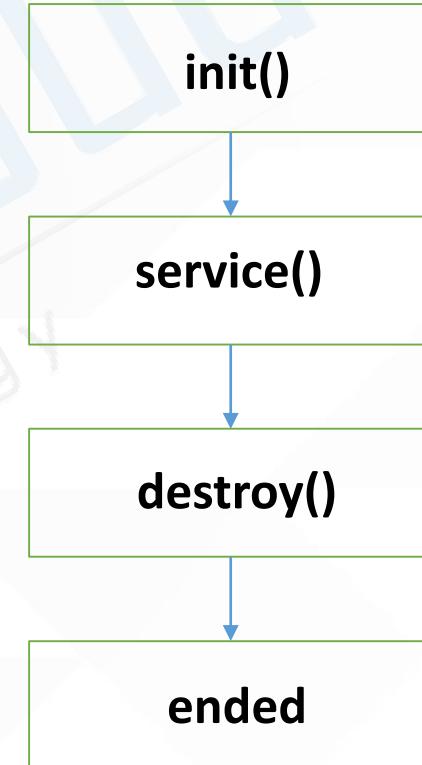
## Why Use Servlets?

- ✓ Platform independent (Java-based).
- ✓ Can use JDBC for database access.
- ✓ Foundation for JSP, Spring MVC, etc.

## How It Works

- ✓ The client sends a request (like submitting a form).
- ✓ The web server passes that request to the Servlet.
- ✓ The Servlet processes it (maybe connects to a database).
- ✓ It then sends a response (HTML, JSON, etc.) back to the client.

## Servlet Lifecycle



## Servlet Core Interfaces

- Servlet
- ServletRequest
- ServletResponse
- ServletConfig
- ServletContext
- RequestDispatcher
- Filter
- FilterChain
- FilterConfig
- HttpSession

## Servlet Core Classes

- GenericServlet
- HttpServlet
- ServletInputStream
- ServletOutputStream
- HttpServletRequestWrapper
- HttpServletResponseWrapper



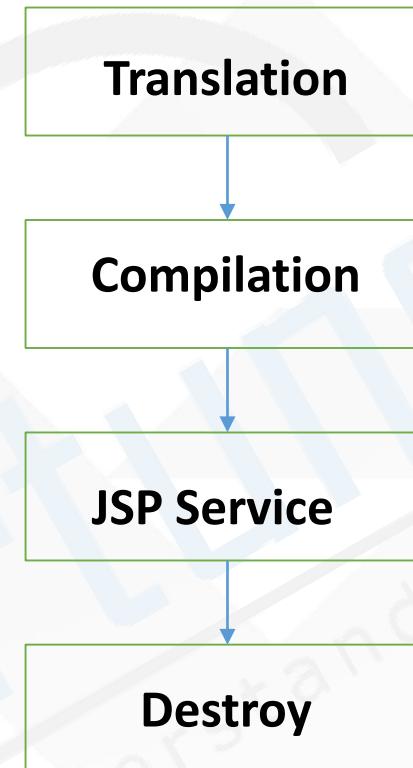
JSP

- JSP stands for **Java Server Pages**.
- It is used to create dynamic web pages using **Java + HTML**.
- Works on top of Servlet technology — **every JSP is internally converted into a Servlet**.

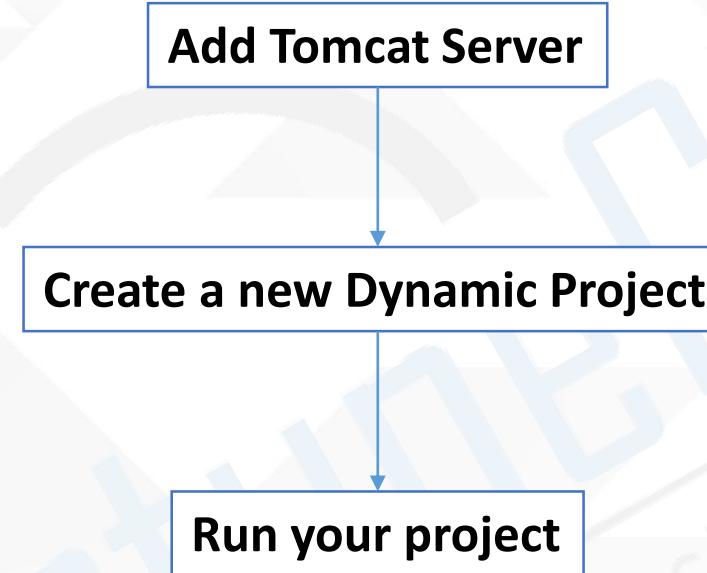
## Why Use JSP?

- ✓ Easier than Servlets
- ✓ Separation of Design & Logic
- ✓ Automatic Servlet Conversion
- ✓ Built-in Objects
- ✓ Supports Reusability
- ✓ Integration with JavaBeans & MVC

## JSP Lifecycle



# Let's switch from concepts to coding — it's practical time!





# THANK YOU..!