How to create servlet using javax.servlet.Servlet Interface



User defined class

class MyServlet implements Servlet

Override all methods

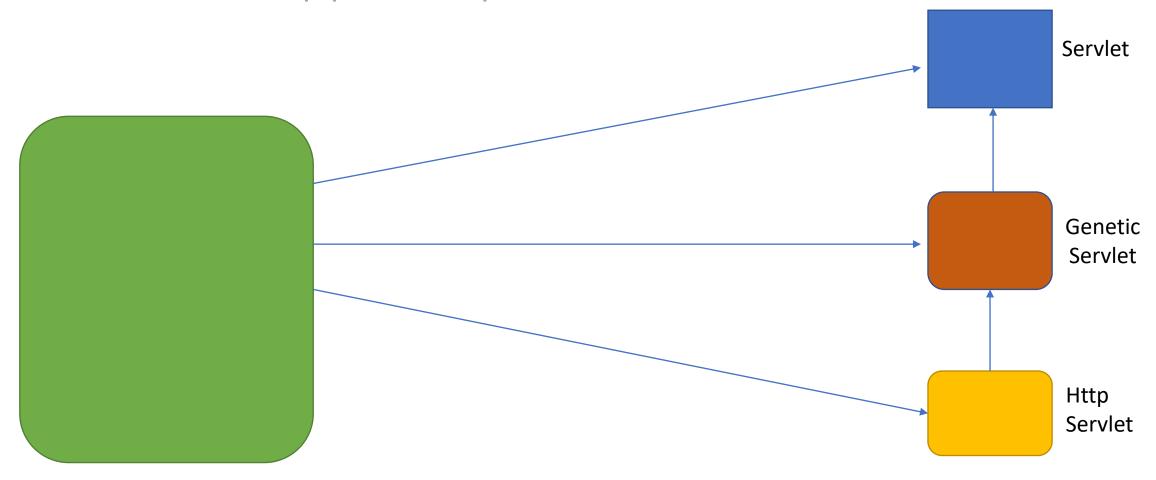
}

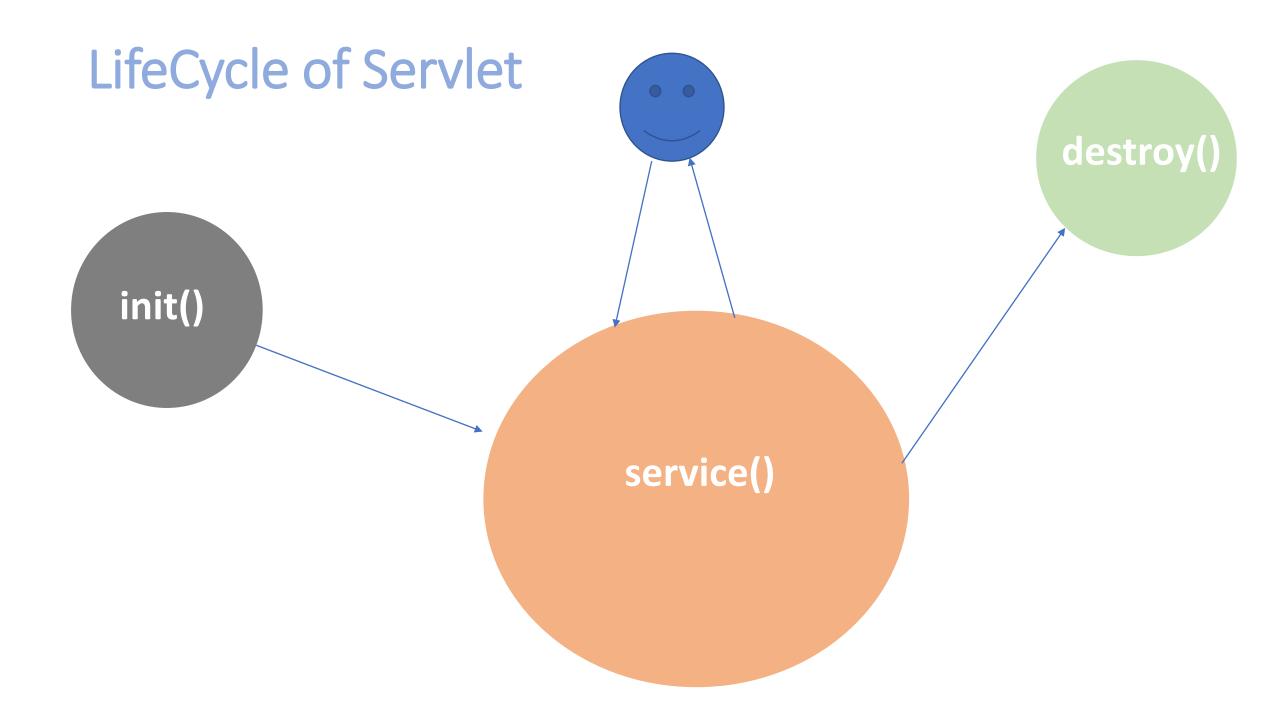
- 1) public abstract void init(javax.servlet.ServletConfig)
- 2) public ServletConfig getServletConfig();
- 3) public void service(javax.servlet.ServletRequest, javax.servlet.ServletResponse)
- 4) public abstract java.lang.String getServletInfo();
- 5) public abstract void destroy();

Servlet interface

Creating Servlet using HttpServlet

Used to create http protocol specific servlet





Welcome file and Welcome file list

```
• <web-app>
```

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•

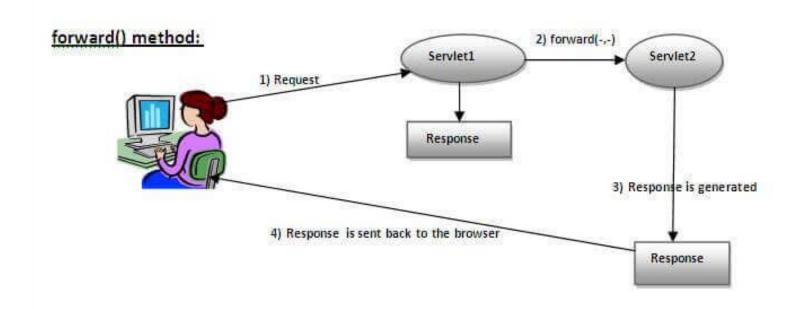
- <welcome-file-list>
- <welcome-file>home.html</welcome-file>
- <welcome-file>default.html</welcome-file>
- </welcome-file-list>
- </web-app>

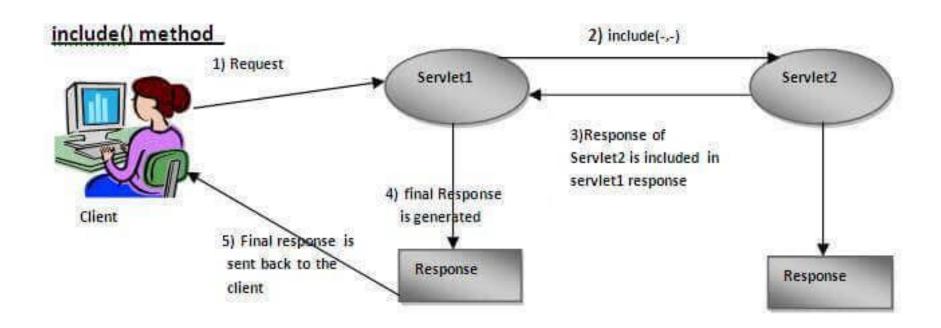
load on startup

- It loads the servlet at time of deployment if value is positive.
- <servlet>
- <servlet-name>servlet1</servlet-name>
- <servlet-class>FirstServlet</servlet-class>
- <load-on-startup>0</load-on-startup>
- </servlet>

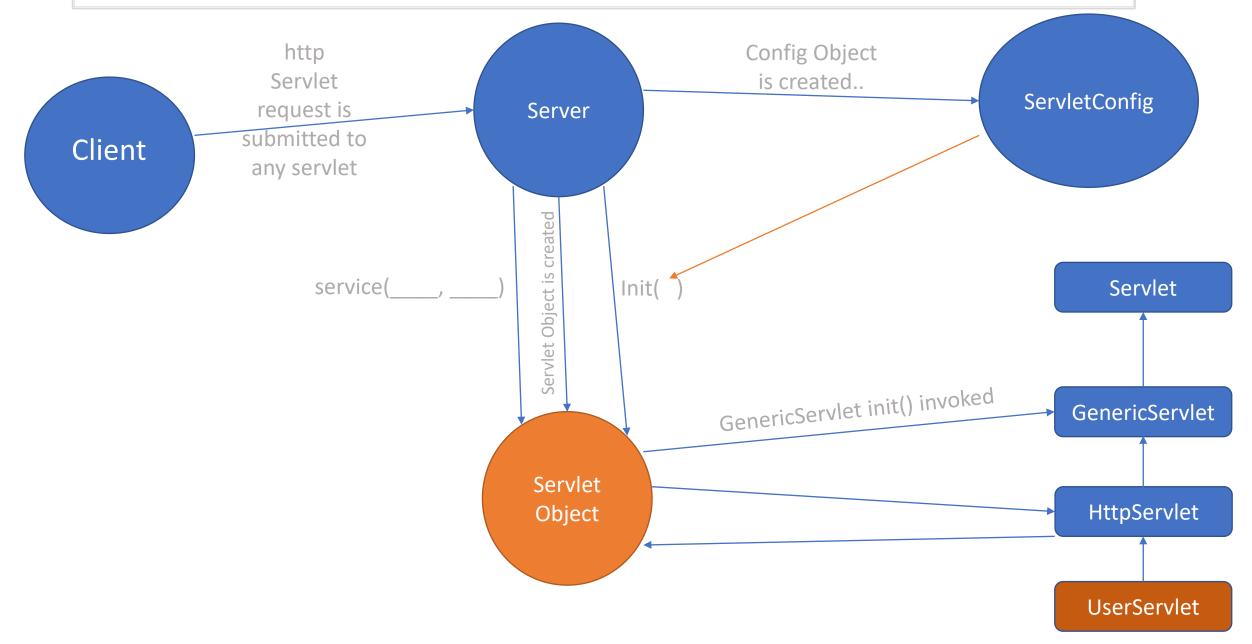
RequestDispatcher

• It is responsible for dispatching the request to another resource it may be html, servlet or jsp.





Internal Working of Servlet



Deployment Descriptor

- File that contains configuration of your java web application.
- It resides in the WEB-INF folder.

```
<web-app>
servlet declaration
servlet-mapping
initialization parameter
welcome file config
filter
listener
session config
etc......
```

</web-app>

Parameters and attributes in servlet

- Parameters These are those values which are provided by user to any servlet to process the request during the request operation.
- Servlet only read that value for request processing.
- Parameter mostly Data send using form, initialization parameter etc.
- How to get initialization parameter:
- String name= request.getParameter("name_of_your_parameter");
- Now process you request.

Parameters and attributes in servlet

- Attributes- these are the objects that are attached by one servlet to object (session, request, config, context etc) and other servlet can fetch that object to process to logic.
- Servlet can easily modify , add and remove the content of attribute when required.
- How to perform operation with attributes:
 - setAttribute(String name,String value)
 - Object value=getAttribute(String name)
 - removeAttribute(String name)

Cookies in Servlet

• Cookies are the textual information which are stored in key value pair format to the client's browser during multiple requests.

How to use Cookies in Java

- In order to use cookies in java, there is a **Cookie** class in java present in **javax.servlet.http** package.
- To make cookie just create a object of Cookie class and pass name and its value.

How to add Cookie to reponse

• To add cookie in response just use addCookie(Cookie) method of response interface.

How to get Cookie from request.

Use getCookies() method of ServletRequest Interface it returns
Cookie[] array.