

New Servlet

Steps

1. Choose File Type
- 2. Name and Location**
3. Configure Servlet Deployment

Name and Location

Class Name:

Project:

Location:

Package:

Created File:

```
/*
```

```
Creating Servlet by extending javax.servlet.Servlet interface
```

```
*/
```

```
//Generic Servlet
```

```
package apps;
```

```
import java.io.*;
```

```
import javax.servlet.*;
```

```
public class MyServlet2 extends GenericServlet
```

```
{
```

```
public void service(ServletRequest request,ServletResponse response)
```

```
{
```

```
try
```

```
{
```

```
PrintWriter out=response.getWriter();
```

```
out.println("<html><head><title>Generic Servlet</title></head>"
```

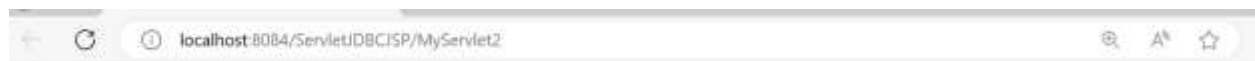
```
    + "<body>"
```

```
    + "<h1>This is Generic Servlet by extending GenericServlet</h1>"
```

```
    + "</body>"
```

```
    + "</html>");
```

```
}  
catch(Exception e)  
{  
    e.printStackTrace();  
}  
}  
}
```



This is Generic Servlet by extending GenericServlet

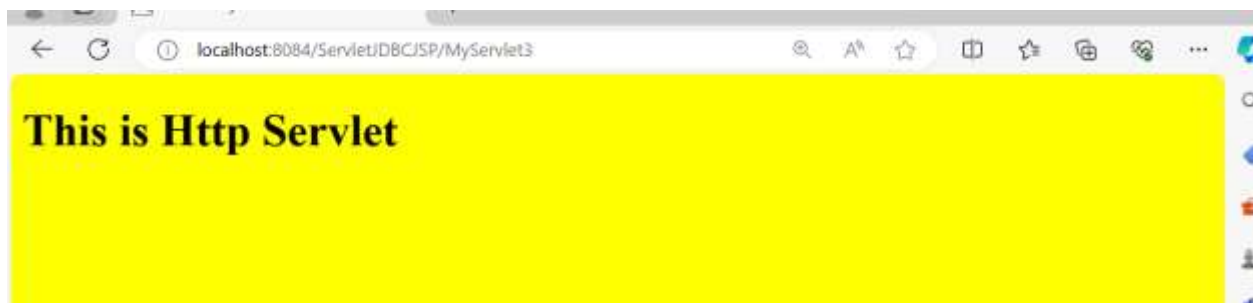
```
package apps;
```

```
import java.io.IOException;  
import java.io.PrintWriter;  
import javax.servlet.ServletException;  
import javax.servlet.http.HttpServlet;  
import javax.servlet.http.HttpServletRequest;  
import javax.servlet.http.HttpServletResponse;
```

```
public class MyServlet3 extends HttpServlet {
```

```
    public void service(HttpServletRequest request, HttpServletResponse response)  
    {  
        response.setContentType("text/html;charset=UTF-8");
```

```
try (PrintWriter out = response.getWriter()) {  
    out.println("<!DOCTYPE html>");  
    out.println("<html>");  
    out.println("<head>");  
    out.println("<title>Servlet MyServlet3</title>");  
    out.println("</head>");  
    out.println("<body bgcolor=yellow>");  
    out.println("<h1>This is Http Servlet</h1>");  
    out.println("</body>");  
    out.println("</html>");  
}  
catch(Exception e)  
{  
    e.printStackTrace();  
}  
}
```



```
/*
```

```
 * To change this license header, choose License Headers in Project Properties.
```

```
 * To change this template file, choose Tools | Templates
```

```
 * and open the template in the editor.
```

```
*/
```

```
package apps;
```

```
import java.io.IOException;
```

```
import java.io.PrintWriter;
```

```
import javax.servlet.ServletException;
```

```
import javax.servlet.http.HttpServlet;
```

```
import javax.servlet.http.HttpServletRequest;
```

```
import javax.servlet.http.HttpServletResponse;
```

```
/**
```

```
 *
```

```
 * @author Asus
```

```
 */
```

```
public class MyServlet4 extends HttpServlet {
```

```
    /**
```

```
     * Processes requests for both HTTP GET and POST
```

```
     * methods.
```

```
     *
```

```
     * @param request servlet request
```

```
     * @param response servlet response
```

```
     * @throws ServletException if a servlet-specific error occurs
```

Analyze InfoTech, Janpriya Complex, Phase-II, Tedhi Puliya, Aliganj Lucknow Ph. No.9453193268,9839434821

E-mail: admin@analyzeinfotech.in, Website: www.analyzeinfotech.in

```
* @throws IOException if an I/O error occurs
*/
protected void processRequest(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    response.setContentType("text/html;charset=UTF-8");
    try (PrintWriter out = response.getWriter()) {
        /* TODO output your page here. You may use following sample code. */
        out.println("<!DOCTYPE html>");
        out.println("<html>");
        out.println("<head>");
        out.println("<title>Servlet MyServlet4</title>");
        out.println("</head>");
        out.println("<body bgcolor=pink>");
        out.println("<h1>This Servlet Code is automatically Generated by NetBean</h1>");
        out.println("</body>");
        out.println("</html>");
    }
}
```

```
// <editor-fold defaultstate="collapsed" desc="HttpServletRequest methods. Click on the + sign on the left to
edit the code.">
```

```
/**
 * Handles the HTTP <code>GET</code> method.
 *
 * @param request servlet request
 * @param response servlet response
 * @throws ServletException if a servlet-specific error occurs
 * @throws IOException if an I/O error occurs
 */
```

@Override

```
protected void doGet(HttpServletRequest request, HttpServletResponse response)
```

```
    throws ServletException, IOException {  
    processRequest(request, response);  
}
```

```
/**
```

```
 * Handles the HTTP <code>POST</code> method.
```

```
 *
```

```
 * @param request servlet request
```

```
 * @param response servlet response
```

```
 * @throws ServletException if a servlet-specific error occurs
```

```
 * @throws IOException if an I/O error occurs
```

```
 */
```

@Override

```
protected void doPost(HttpServletRequest request, HttpServletResponse response)
```

```
    throws ServletException, IOException {  
    processRequest(request, response);  
}
```

```
/**
```

```
 * Returns a short description of the servlet.
```

```
 *
```

```
 * @return a String containing servlet description
```

```
 */
```

@Override

```
public String getServletInfo() {
```

```
    return "Short description";
```

```
}// </editor-fold>
```

Analyze InfoTech, Janpriya Complex, Phase-II, Tedhi Puliya, Aliganj Lucknow Ph. No.9453193268,9839434821

E-mail: admin@analyzeinfotech.in, Website: www.analyzeinfotech.in

}



Web.xml

It is deployment descriptor for a Servlet and this file contains mapping code for a Servlet.

```
<servlet>
    <servlet-name>MyServlet1</servlet-name>
    <servlet-class>apps.MyServlet1</servlet-class>
</servlet>
<servlet-mapping>
    <servlet-name>MyServlet1</servlet-name>
    <url-pattern>/MyServlet1</url-pattern>
</servlet-mapping>
```

Handling of Request and Response

```
public void service(HttpServletRequest,HttpServletResponse)
```

=> It is main method for Request and Response Handling.

=> This method contains 8 supportive Methods

```
protected void service(HttpServletRequest,HttpServletResponse)
protected void doGet(HttpServletRequest,HttpServletResponse)
protected void doPost(HttpServletRequest,HttpServletResponse)
protected void doPut(HttpServletRequest,HttpServletResponse)
protected void delete(HttpServletRequest,HttpServletResponse)
protected void doTrace(HttpServletRequest,HttpServletResponse)
protected void doOption(HttpServletRequest,HttpServletResponse)
```

Note: above methods are implicitly called by Servlet Container

Analyze InfoTech, Janpriya Complex, Phase-II, Tedhi Puliya, Aliganj Lucknow Ph. No.9453193268,9839434821

E-mail. admin@analyzeinfotech.in, Website: www.analyzeinfotech.in

```
protected void processRequest(HttpServletRequest, HttpServletResponse)
```

Note: This Method is required to call explicitly

```
String getParameter("variableName")
```

=> This is method of HttpServletRequest , and it is used to recieve request data of client on Server

```
redirect("Page")
```

=> This is method of HttpServletResponse, and it is used to send control on specific Page.

Login Page

User Name	<input type="text"/>
Password	<input type="password"/>
<input type="button" value="Submit"/>	<input type="button" value="Reset"/>

