

## 1. First Servlet

ServletTest.java

```
Package com.servlet;  
  
import java.io.IOException;  
import java.io.PrintWriter;  
import java.util.Date;  
import jakarta.servlet.Servlet;  
import jakarta.servlet.ServletConfig;  
import jakarta.servlet.ServletException;  
import jakarta.servlet.ServletRequest;  
import jakarta.servlet.ServletResponse;  
  
public class ServletTest implements Servlet {  
    @Override  
    public void destroy() {  
        System.out.println("destroy() method is called");  
    }  
  
    @Override  
    public ServletConfig getServletConfig() {  
        return null;  
    }  
  
    @Override  
    public String getServletInfo() {  
        return null;  
    }  
  
    @Override  
    public void init(ServletConfig config) throws  
        ServletException {  
        System.out.println("init() method is called");  
    }  
}
```

② Override

```
public void service(ServletRequest req, ServletResponse res,  
    throws ServletException, IOException {  
    System.out.println("Service() method is called");
```

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

```
    res.setContentType("text/html");
```

```
    out.print("<h2><b>welcome to my site</b></h2>");
```

```
    out.println("<h1>" + new Date().toString() + "</h1>");  
}
```

```
}
```

## web.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns="http://jakarta.ee/xml/ns/jakartaee"
xmlns:web="http://xmlns.jcp.org/xml/ns/javaee" version="3.0">
  <display-name>firstServlet</display-name>

  <servlet>
    <servlet-name>first</servlet-name>
    <servlet-class>com.servlet.ServletTest</servlet-class>
  </servlet>

  <servlet-mapping>
    <servlet-name>first</servlet-name>
    <url-pattern>/app</url-pattern>
  </servlet-mapping>

  <welcome-file-list>
    <welcome-file>index.html</welcome-file>
    <welcome-file>index.jsp</welcome-file>
    <welcome-file>index.htm</welcome-file>
    <welcome-file>default.html</welcome-file>
    <welcome-file>default.jsp</welcome-file>
    <welcome-file>default.htm</welcome-file>
  </welcome-file-list>
</web-app>
```

## Index.html

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<meta charset="ISO-8859-1">
```

```
<title>First App</title>
```

```
</head>
```

```
<body>
```

```
<h1>Welcome to my App</h1>
```

```
<a href = "app">click me</a>
```

```
</body>
```

```
</html>
```



● http://localhost:8080/FirstServlet/

# Welcome to my app

[Click me](#)



● http://localhost:8080/FirstServlet/app

## Welcome to my site

# Fri Mar 28 15:49:59 NPT 2025



## 2. GenericServletProject

### GenericTest.java

```
package com.GenericServletProject;

import java.io.IOException;
import java.io.PrintWriter;
import jakarta.servlet.GenericServlet;
import jakarta.servlet.ServletException;
import jakarta.servlet.ServletRequest;
import jakarta.servlet.ServletResponse;

public class GenericTest extends GenericServlet {
    @Override
    public void service(ServletRequest req, ServletResponse res)
        throws ServletException, IOException {

        PrintWriter out = res.getWriter();
        res.setContentType("text/html");
        out.print("<h2><b>welcome to my site</b></h2>");

    }
}
```

## web.xml

<?xml version="1.0" encoding="UTF-8"?>

<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://jakartaee/xml/ns/jakartaee">

<display-name> GenericServletProject </display-name>

<servlet>

<servlet-name>first </servlet-name>

<servlet-class> com.GenericServletProject.GenericTest  
</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>first </servlet-name>

<url-pattern> /page </url-pattern>

</servlet-mapping>

<welcome-file-list>

<welcome-file> index.html </welcome-file>

<welcome-file> index.jsp </welcome-file>

<welcome-file> index.htm </welcome-file>

<welcome-file> default.html </welcome-file>

<welcome-file> default.jsp </welcome-file>

<welcome-file> default.htm </welcome-file>

</welcome-file-list>

</web-app>

index.html

<!DOCTYPE html>

<html>

  <head>

    <meta charset="ISO-8859-1">

    <title>Generic ServletTest Project </title>

  </head>

  <body>

    <h2>Hello Everyone </h2>

    <a href="page">Home </a>

  </body>

</html>



# Hello Everyone

[Home](#)

**Welcome to my site**

## 1. HttpServletProject

### HttpServletTest.java

```
package com.HttpServlet;  
  
import java.io.IOException;  
import java.io.PrintWriter;  
import jakarta.servlet.ServletException;  
import jakarta.servlet.http.HttpServlet;  
import jakarta.servlet.http.HttpServletRequest;  
import jakarta.servlet.http.HttpServletResponse;  
  
public class HttpServletTest extends HttpServlet {  
    @Override  
    protected void doGet(HttpServletRequest req,  
        HttpServletResponse res) throws ServletException,  
        IOException {  
  
        PrintWriter out = res.getWriter();  
        res.setContentType("text/html");  
        String path = req.getRequestURI();  
  
        if (path.contains("/page1")) {  
            out.write("<h1>This is page 1 </h1>");  
        } else if (path.contains("/page2")) {  
            out.write("<h1>This is page 2 </h1>");  
        } else {  
            out.write("<h1>Invalid Page </h1>");  
        }  
    }  
}
```

## web.xml

<?xml version="1.0" encoding="UTF-8"?>

<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-  
Instance" version="3.0">

<display-name>HttpServletProject</display-name>

<servlet>

<servlet-name>first</servlet-name>

<servlet-class>com.HttpServlet.HttpServletTest</servlet-  
class>

</servlet>

<servlet-mapping>

<servlet-name>first</servlet-name>

<url-pattern>/page1</url-pattern>

</servlet-mapping>

<servlet-mapping>

<servlet-name>first</servlet-name>

<url-pattern>/page2</url-pattern>

</servlet-mapping>

<welcome-file-list>

<welcome-file>index.html</welcome-file>

<welcome-file>index.jsp</welcome-file>

<welcome-file>index.html</welcome-file>

<welcome-file>default.html</welcome-file>

<welcome-file>default.jsp</welcome-file>

<welcome-file>default.html</welcome-file>

</welcome-file-list>

</web-app>

Index.html

<!DOCTYPE html>

<html>

<head>

<meta charset="ISO-8859-1">

<title> HTTP Servlet Project </title>

~~<link>~~

</head>

<body>

<h1> Hello Everyone </h1>

<a href="page1">Home </a>

<a href="page2">Menu </a>

</body>

</html>

# Hello Everyone

[Home](#) [Menu](#)

**This is page 1**

**This is page 2**