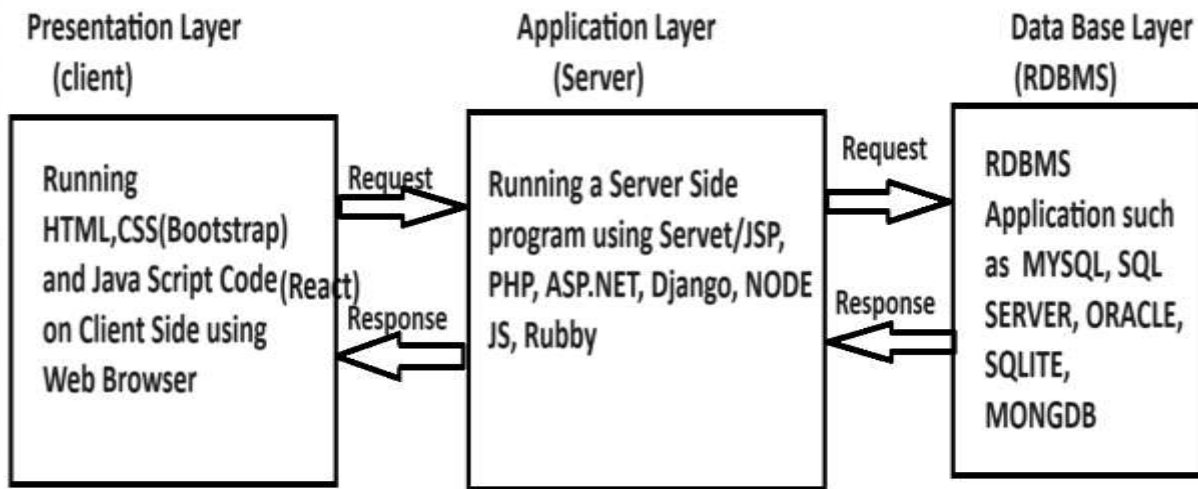


### 3 Tier we Architecture

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### Servlet

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=> A Servlet is Server Side Program that always runs under a web Server.

=> A Servlet is based on Request(client to Server) and Response(Server to client) Mechanism

=> A servlet file has .java extn.

=> To execute a Servlet Program , we must required atleast 1 Web Container in following List.

1. JSDK2.0(DPR)
2. Apache Tomcat
3. Glassfish
4. JBoss

## Types of Servlet

---

=> There are 2 types of Servlet

1. Generic Servlet

2. Http Servlet

1. Generic Servlet

---

=> This type Servlet can run on any Protocol like HTTP,HTTPS, SMTP  
, TCP/IP, UDP/IP, FTP,.. etc.

2. HTTP Servlet

---

=> This type Servlet can run only on HTTP and HTTPs Protocol.

## Methods to create a Servlet Program

---

=> There are 3 Methods used to create a Servlet Program

1. Creating a servlet by implementing javax.servlet.Servlet Interface
2. Creating a Servlet by extending javax.servlet.GenericServlet class
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## 2. HTTP Servlet

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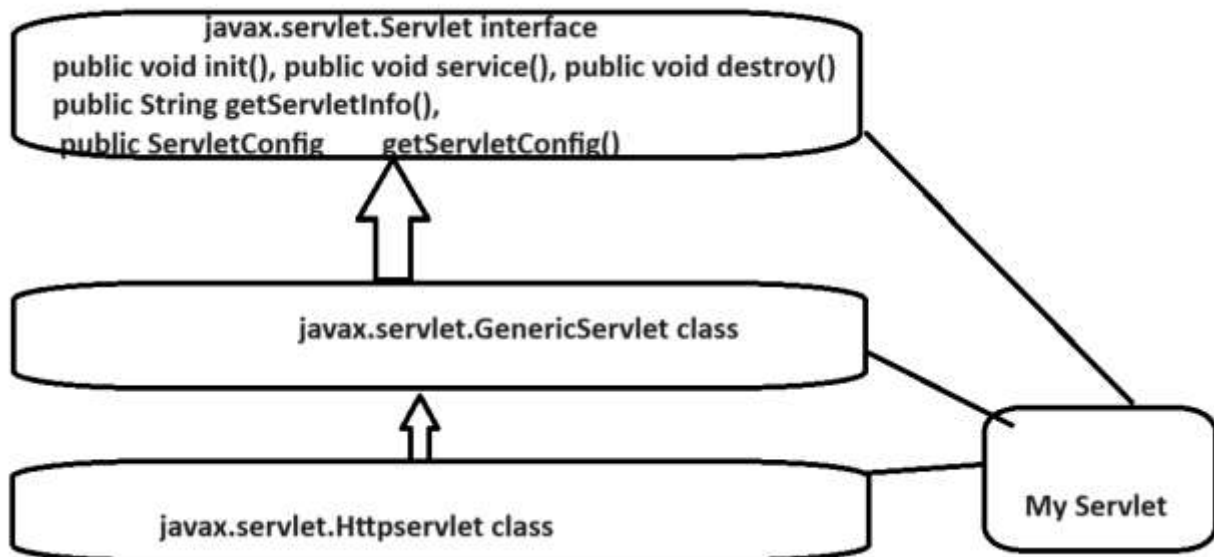
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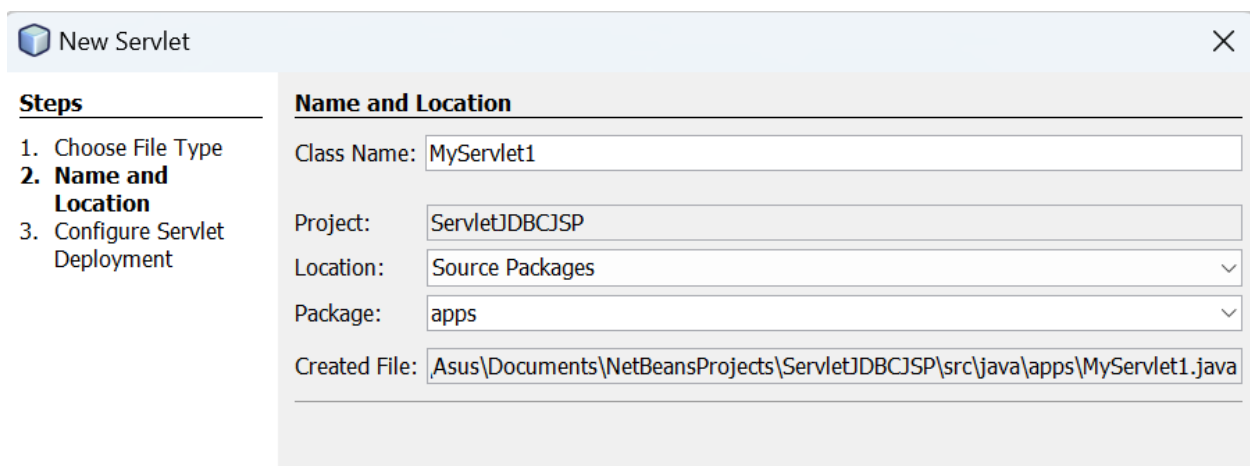
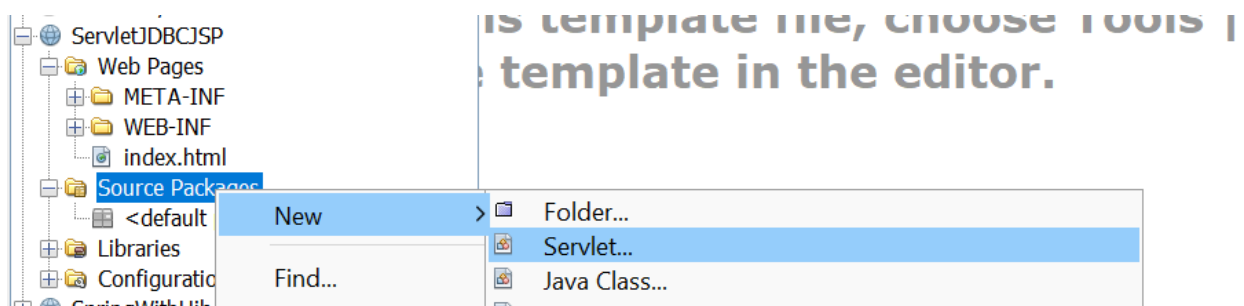
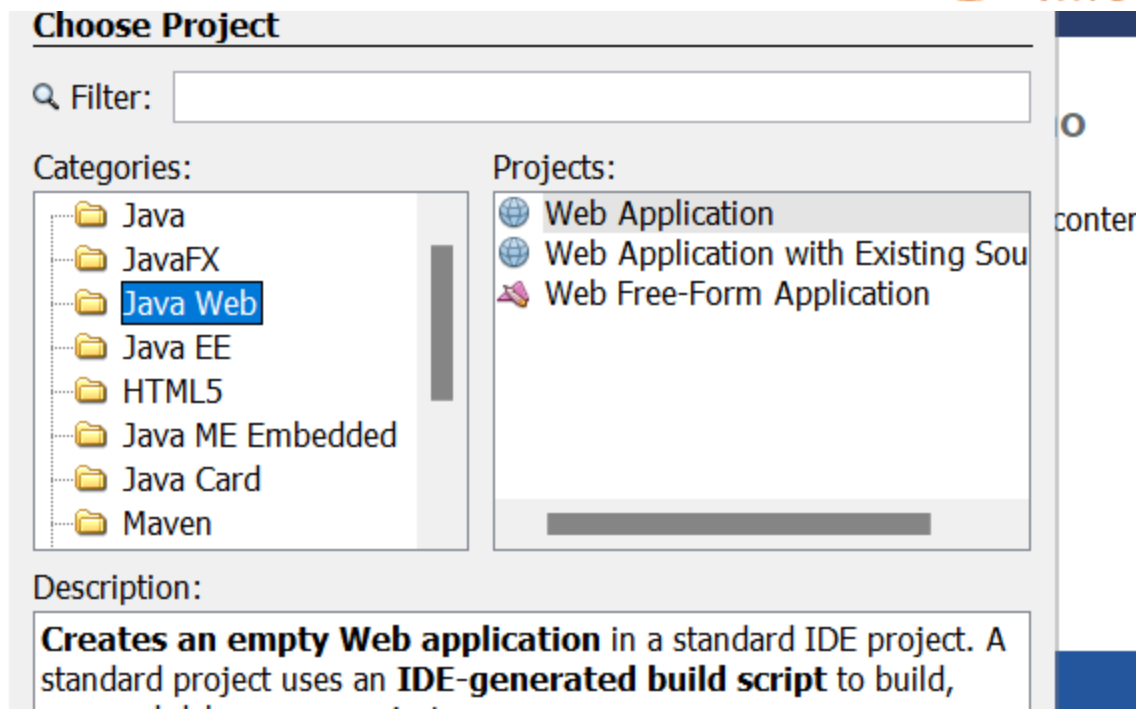
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- ⇒ Creating Servlet Program
- ⇒ Open NetBean
- ⇒ Create a new Project Java Web Application





## Steps

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

## Configure Servlet Deployment

Register the Servlet with the application by giving the Servlet an internal name ( ). Then specify patterns that identify the URLs that invoke the Servlet. Separate multiple patterns with commas.

☒ Add information to deployment descriptor (web.xml)

Class Name:

```
package apps;
```

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

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

```
public class MyServlet1 implements Servlet
```

```
{
```

```
    public void init(ServletConfig config)
```

```
    {
```

```
        System.out.println("Servlet is initialized");
```

```
    }
```

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

```
    {
```

```
        try
```

```
        {
```

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

```
            out.println("<html>");
```

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

```
            out.println("<body bgcolor=lightblue>");
```

```
            out.println("<h1>This Servlet is created by implementing javax.servlet.Servlet interface</h1>");
```

```
            out.println("</body></html>");
```

```
        }
```

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```
catch(Exception e)
{
    e.printStackTrace();
}
}
public void destroy()
{
    System.out.println("Servlet being Closed");
}
public String getServletInfo()
{
    return "Analyze Infotech";
}
public ServletConfig getServletConfig()
{
    return null;
}
}
```







