

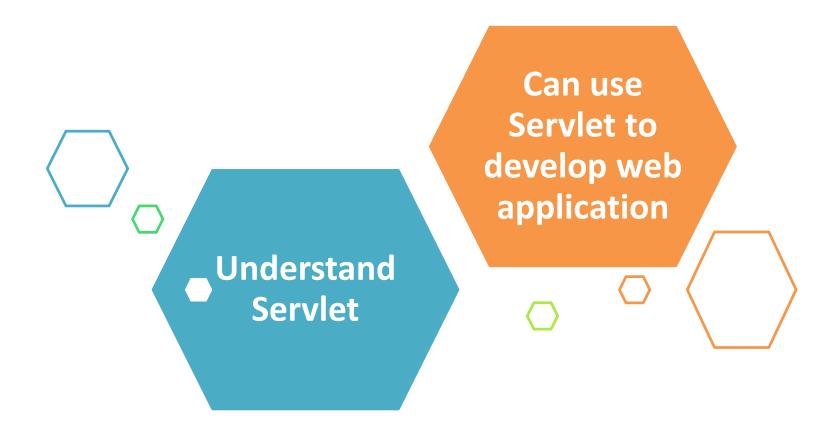


# JAVA SERVLET PROGRAMMING

## **Learning Goals**







#### **Table Content**





- RequestDispatcher
- Servlet Context
- Demo





Section 1

#### **REQUESTDISPATCHER AND SERVLETCONTEXT**

#### RequestDispatcher





RequestDispatcher is an interface, implementation of which defines an object which can dispatch request to any resources(such as HTML, Image, JSP, Servlet) on the server.

#### Methods:

Methods	Description
<pre>void forward(ServletRequest request, ServletResponse response)</pre>	forwards a request from a servlet to another resource (servlet, JSP file, or HTML file) on the server
<pre>void include(ServletRequest request, ServletResponse response)</pre>	includes the content of a resource (servlet, JSP page, HTML file) in the response

#### Example:



#### RequestDispatcher





#### redirection vs request dispatching

- The main difference between a redirection and a request dispatching:
  - ✓ redirection makes the client(browser) create a new request to get to the resource, the user can see the new URL;
  - ✓ request dispatch get the resource in same request and URL does not changes.

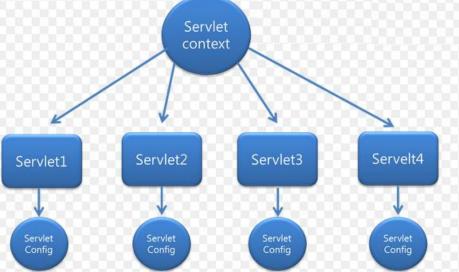
#### ServletContext





- An object of ServletContext is created by the web container at time of deploying the project. This object can be used to get configuration information from web.xml file.
- Servlet Context has 3 main methods:
  - √ GetAttribute ()
  - ✓ SetAttribute ()
  - ✓ RemoveAttribute ()
- Servlet Context help provides communication between the servlet
- Servlet Context can also be used to obtain configuration information

web.xml.



#### ServletContext Example







#### **Servlet Context**

#### Sample





We can change the init() method of the SurveyServlet as below:

```
// set up database connection and prepare SQL statements
public void init( ServletConfig config ) throws ServletException
{
   String dbDriver, dbURL;
   ServletContext context = config.getServletContext();

   dbDriver = context.getInitParameter("DB_Driver");
   dbURL = context.getInitParameter("DB_URL");

   // attempt database connection and create PreparedStatements
   // . . .
}
```

Then we need to amend the web.xml file to specify the initial context parameters:





Section 2

## **DEMO**

#### Summary





- Introduction to Servlet
- Servlet API
- Servlet Request and Response
- Servlet Context
- Create servlet in Eclipse IDE





# Thank you

