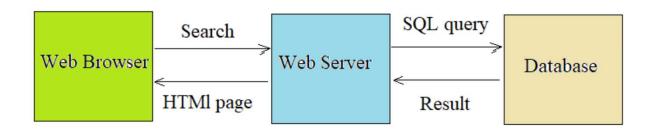
SOEN 387

Introduction to JSP

Wb applications

- A web site where the HTML pages are generated dynamically
- Based on the user's actions



JSPs and Servlets are:

- Java code that runs on the web server
- Reads user's actions ... normally from HTML Form
- Performs the work
- Returns an HTML page that is generated dynamically

Some Java application servers

- Apache Tomcat.
- Jetty.
- · Glassfish.
- · Apache Geronimo.
- JBoss Enterprise Application Platform.

JSP Scripting Elements

- JSP Expression <%= some Java expression %>
- JSP Scriptlet <% some Java code: 1 to many lines %>
- JSP Declaration <%! variable or method declaration %>

JSP Expression

Compute an expression

Result is included in HTML returned to browser

JSP file

The time on the server is <%= new java.util.Date() %>

Generated HTML

The time on the server is Sun Nov 08 21:45:24 EST 2022

JSP Scriptlets

```
Insert 1 to many lines of Java code
To include content in the page use: out.println(...)
```

```
<h3>Hello World of Java</h3>
<%
for (int i=1; i <= 5; i++) {
  out.println("<br/>br/>Welcome to SOEN 387: " + i);
}
%>
```

JSP Declarations

Declare a method in the JSP page Call the method in the same JSP page

```
<%!
// declare a method
%>
```

JSP Declaration - Example

```
<%!
String Lower(String data) {
return data.toLowerCase();
}
%>
Lower case "Hello World": <%= Lower("Hello World") %>
```

```
<h3>JSP Declaration examples.</h3>
<%!
int factorial(int n)
{
if(n ==1) return 1;
else
return (n*factorial(n-1));
}
%>
<h3>Calling a method examples.</h3>
<%
out.println("<br>
5 facorial is:"+ factorial(5));
%>
```