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Chapter 7. Building JSP Pages Using the Expression Language (EL)

Given a scenario, write EL code that accesses the following implicit variables including: pageScope, requestScope, sessionScope, and applicationScope, param and paramValues, header and headerValues, cookie, initParam and pageContext.

There are several implicit objects that are available to EL expressions used in JSP pages. These objects are always available under these names:

- pageContext the PageContext object. Provides an API to access various objects including:
 - context the context for the JSP page's servlet and any Web components contained in the same application.
 - session the session object for the client.
 - request the request triggering the execution of the JSP page.
- pageScope a java.util.Map that maps page-scoped attribute names to their values.
- requestScope a java.util.Map that maps request-scoped attribute names to their values.
- sessionScope a java.util.Map that maps session-scoped attribute names to their values.
- applicationScope a java.util.Map that maps application-scoped attribute names to their values.
- param a java.util.Map that maps parameter names to a single String parameter value (obtained by calling ServletRequest.getParameter(String name)).
- paramValues a java.util.Map that maps parameter names to a String[] of all values for that parameter (obtained by calling ServletRequest.getParameterValues(String name)).
- header a java.util.Map that maps header names to a single String header value (obtained by calling HttpServletRequest.getHeader(String name)).
- headerValues a java.util.Map that maps header names to a String[] of all values for that header.
- cookie a java.util.Map that maps cookie names to a single Cookie object. Cookies are retrieved according to the semantics of HttpServletRequest.getCookies(). If the same name is shared by multiple cookies, an implementation must use the FIRST one encountered in the array of Cookie objects returned by the getCookies() method. However, users of the cookie implicit object must be aware that the ordering of cookies is currently unspecified in the servlet specification.
- initParam a java.util.Map that maps context initialization parameter names to their String parameter value (obtained by calling ServletContext.getInitParameter(String name)).

Examples:

The request's URI (obtained from HttpServletRequest):

\${pageContext.request.requestURI}

The value of the numberOfItems property of the session-scoped attribute named cart:

\${sessionScope.cart.numberOfItems}

The context path:

```
${pageContext.request.contextPath}
```

The session-scoped attribute named 'profile' (null if not found):

```
${sessionScope.profile}
```

The String value of the productId parameter, or null if not found:

```
${param.productId}
```

The value of the productId request parameter:

```
${param["productId"]}
```

The String[] containing all values of the productId parameter, or null if not found:

```
${paramValues.productId}
```

A collection's members can be accessed using square brackets as shown by retrieval of the userName parameter from the param object. Members of an array or List can be accessed if the value in square brackets can be coerced to an int.

Maps can be accessed using the dot operator OR square brackets. For example, \${param.userName} is EQUIVALENT to \${param["userName"]}.

The host HTTP attribute:

```
${header["host"]}
```

Here is an example of accessing a page-scoped object that is called pageColor:

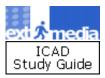
```
<body bgcolor="${pageScope.pageColor}">
```

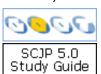
it is equivalent to:

<body bgcolor="\${pageScope['pageColor']}">

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Given a specific design goal for including a JSP segment in another page, write the JSP code that uses the most appropriate inclusion mechanism (the include directive or the jsp:include standard action).







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Given a scenario, write EL code that uses the following operators: property access (the '.' operator), collection access (the '[]' operator).

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