

## 15.3 Summarizing MVC Code

This section summarizes the code that would be used for request-based, session-based, and application-based MVC approaches.

### Request-Based Data Sharing

With request-based sharing, the servlet stores the beans in the `HttpServletRequest`, where they are accessible only to the destination JSP page.

#### Servlet

```
ValueObject value = new ValueObject(...);
request.setAttribute("key", value);
RequestDispatcher dispatcher =
    request.getRequestDispatcher("/WEB-INF/SomePage.jsp");
dispatcher.forward(request, response);
```

#### JSP Page

```
<jsp:useBean id="key" type="somePackage.ValueObject"
    scope="request" />
<jsp:getProperty name="key" property="someProperty" />
```

### Session-Based Data Sharing

With session-based sharing, the servlet stores the beans in the `HttpSession`, where they are accessible to the same client in the destination JSP page or in other pages.

#### Servlet

```
ValueObject value = new ValueObject(...);
HttpSession session = request.getSession();
session.setAttribute("key", value);
RequestDispatcher dispatcher =
    request.getRequestDispatcher("/WEB-INF/SomePage.jsp");
dispatcher.forward(request, response);
```

#### JSP Page

```
<jsp:useBean id="key" type="somePackage.ValueObject"
    scope="session" />
<jsp:getProperty name="key" property="someProperty" />
```

### Application-Based Data Sharing

With application-based sharing, the servlet stores the beans in the `ServletContext`, where they are accessible to any servlet or JSP page in the Web application. To guarantee that the JSP page extracts the same data that the servlet inserted, you should synchronize your code as below.

#### Servlet

```
synchronized(this) {
```

```
ValueObject value = new ValueObject(...);
getServletContext().setAttribute("key", value);
RequestDispatcher dispatcher =
    request.getRequestDispatcher("/WEB-INF/SomePage.jsp");
dispatcher.forward(request, response);
}
```

## JSP Page

```
<jsp:useBean id="key" type="somePackage.ValueObject"
    scope="application" />
<jsp:getProperty name="key" property="someProperty" />
```

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