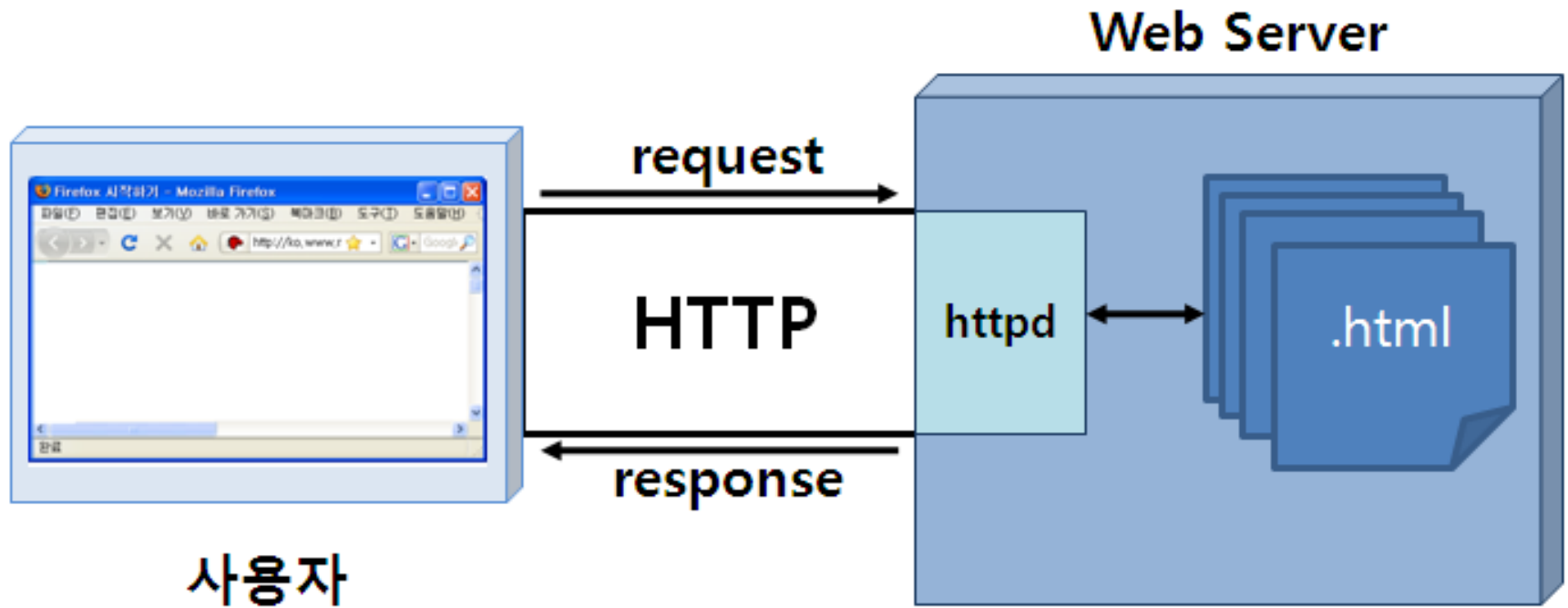


Java Server Programming

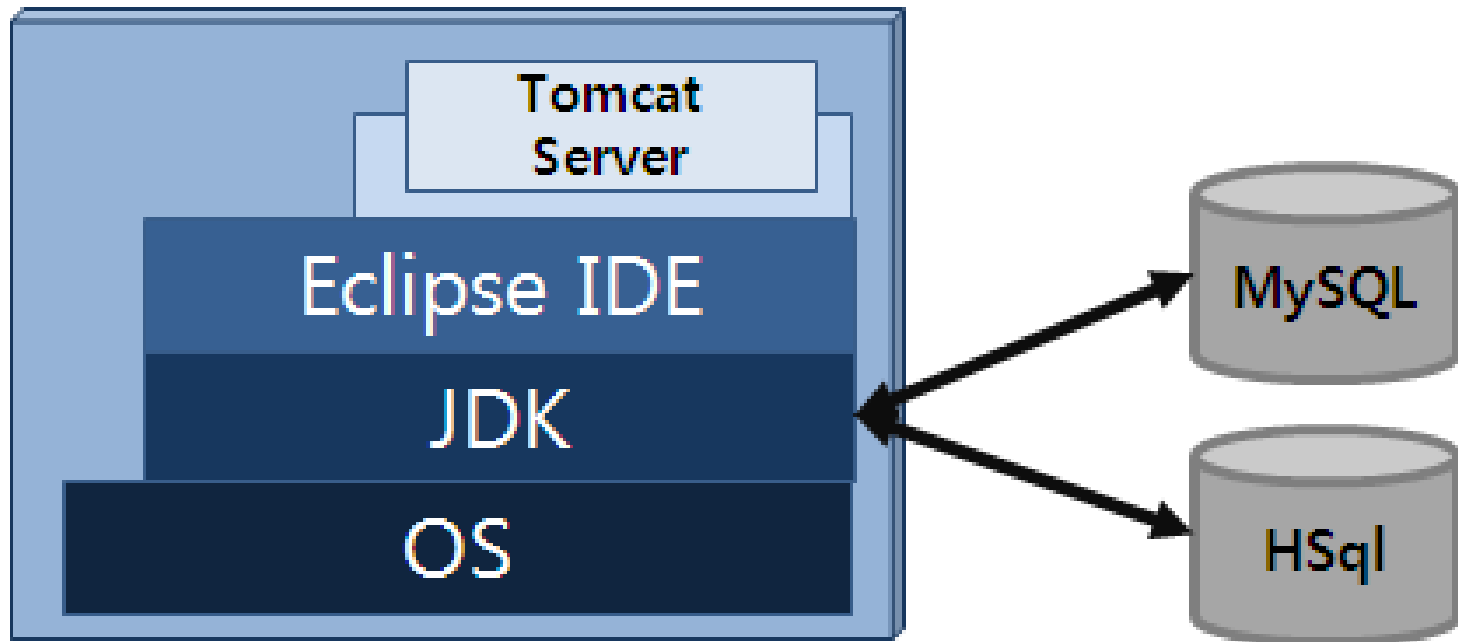
전 혜 영

OOPSW.jeonhye0@gmail.com

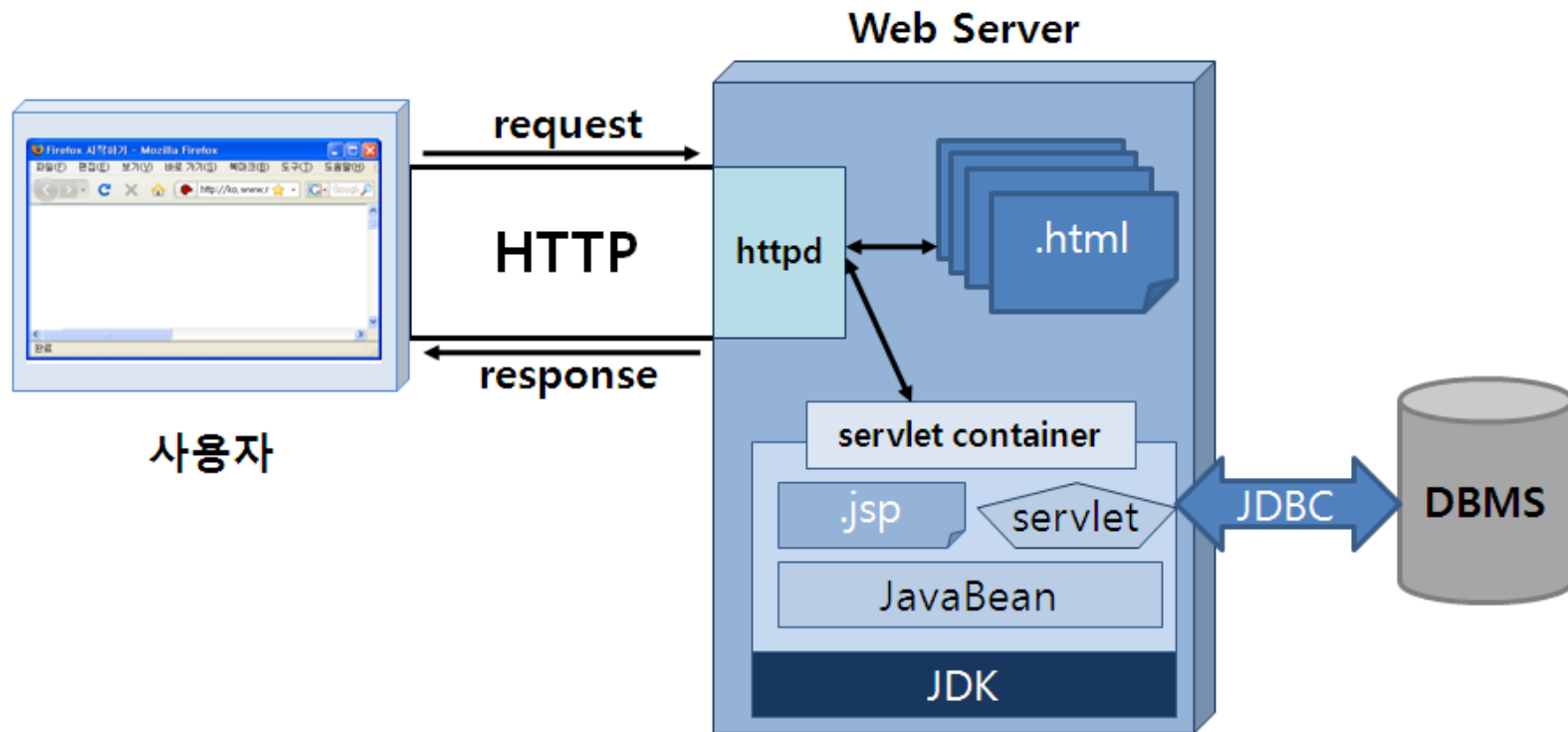
웹 개발 환경



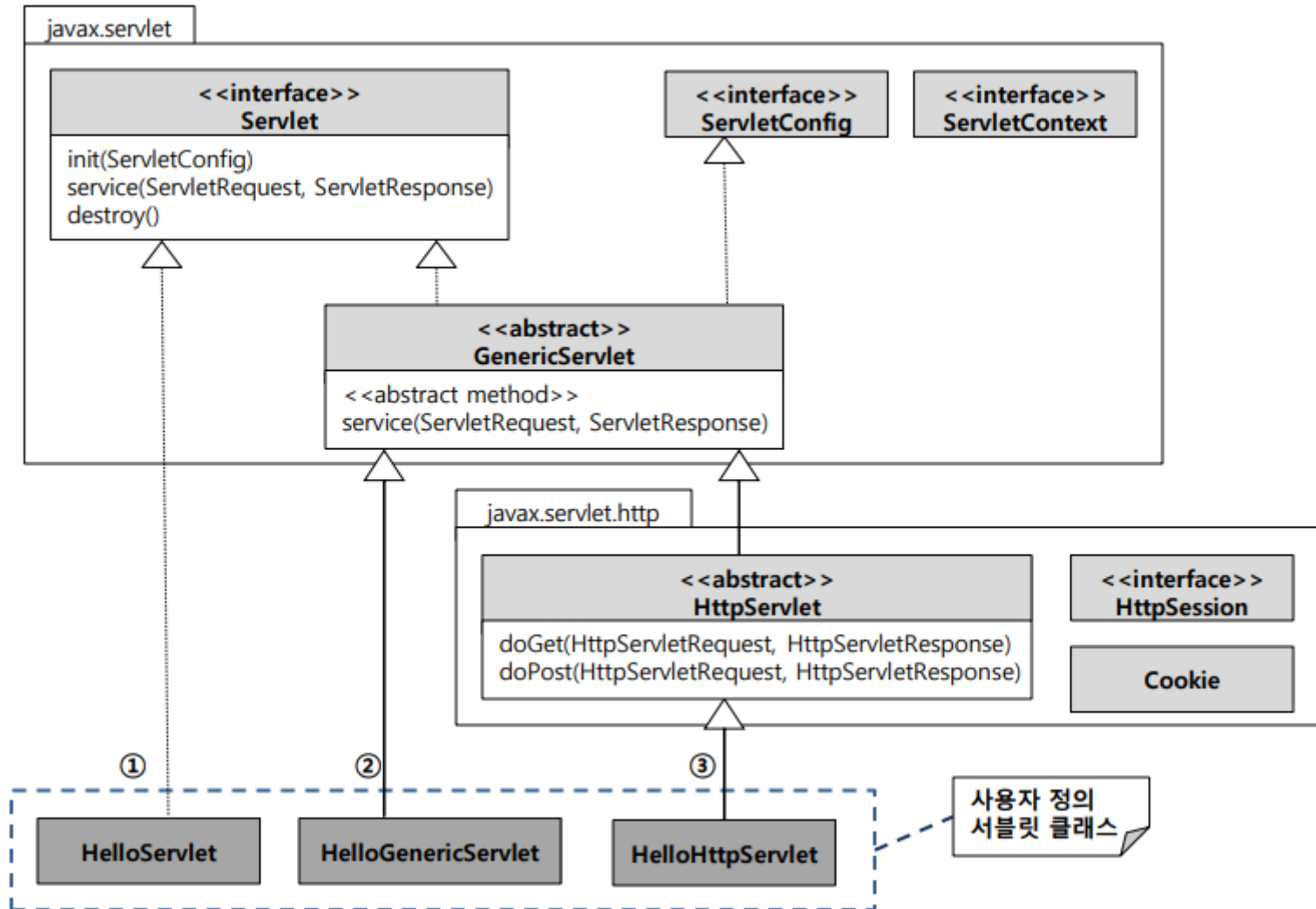
Java Web Server 개발 환경



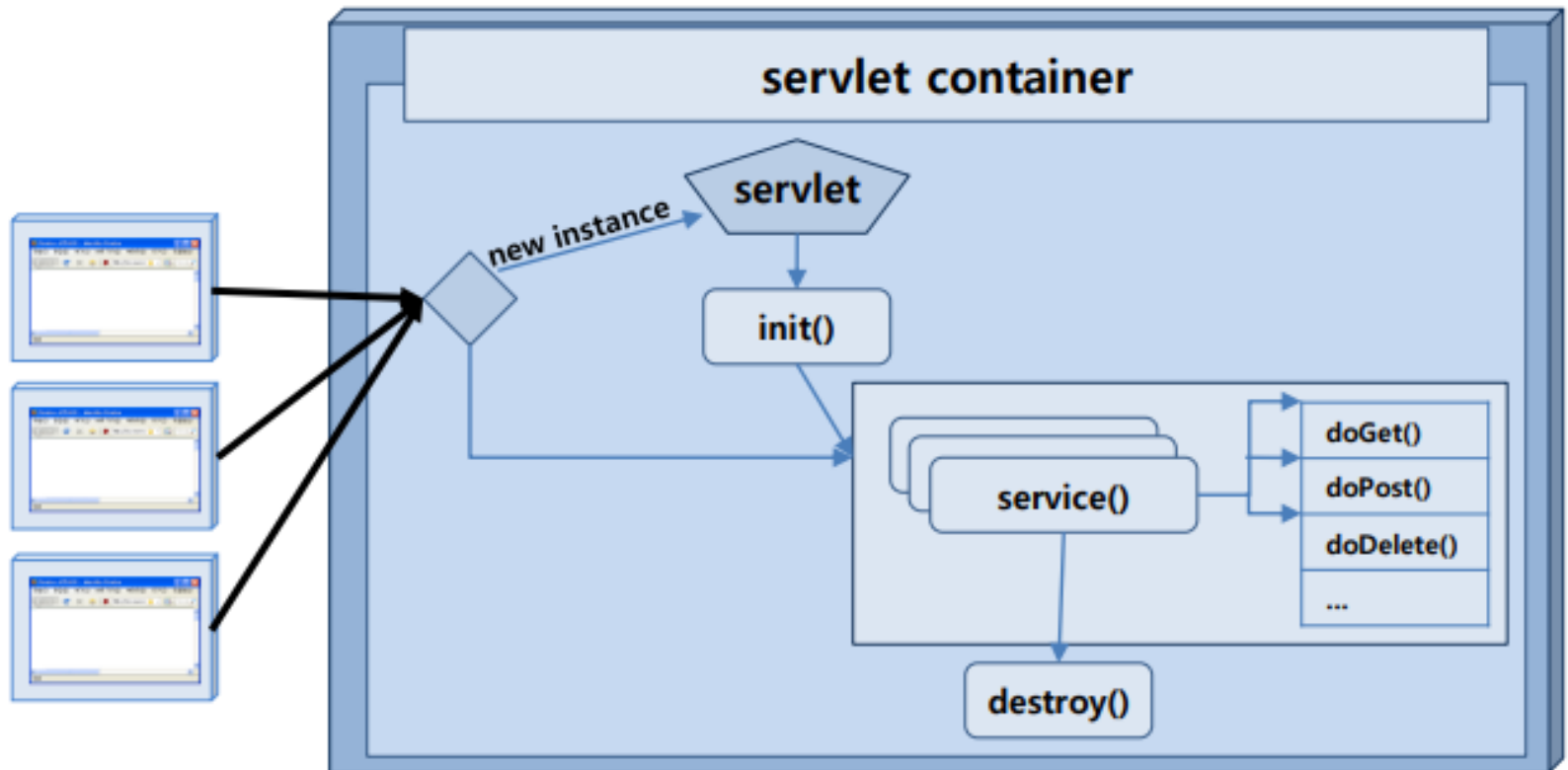
Java Web Server 개발 환경



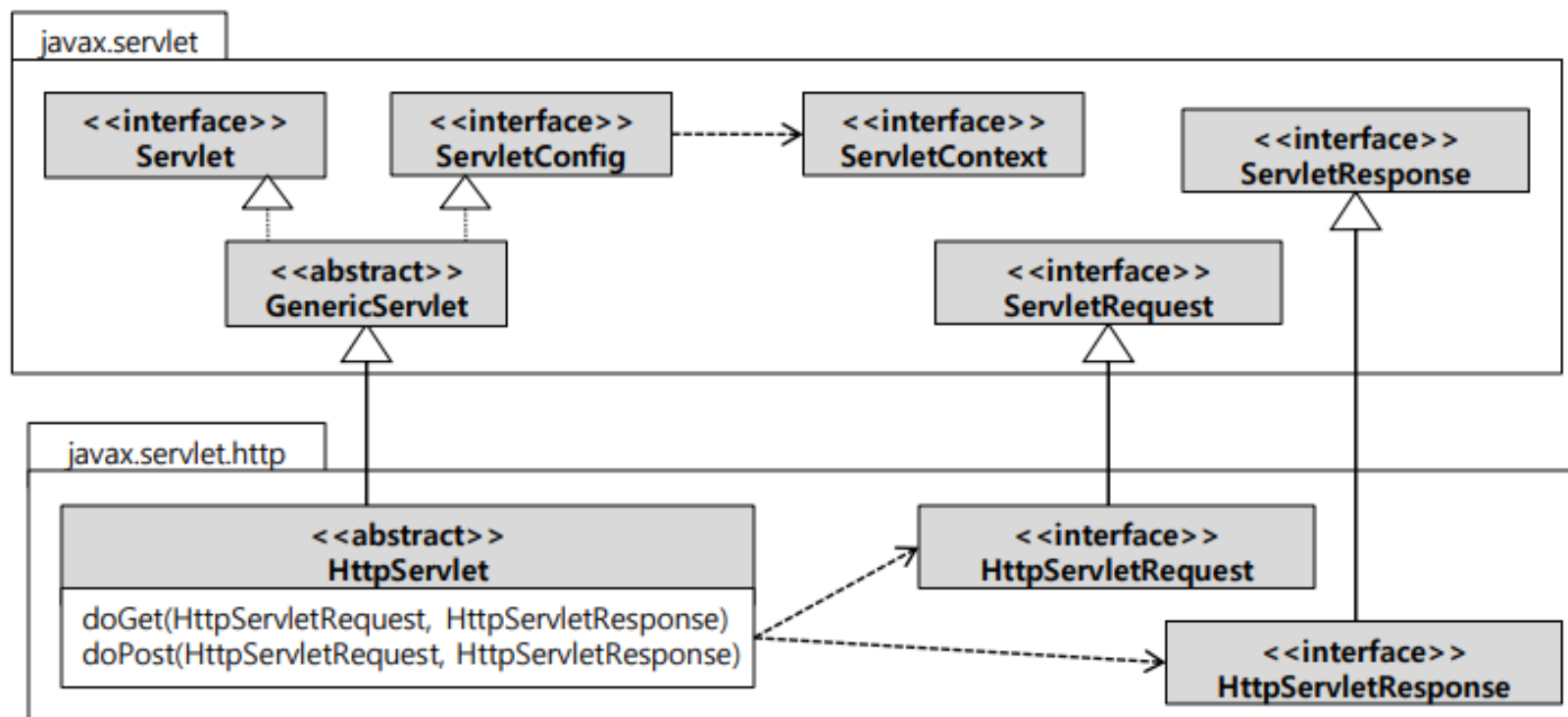
Servlet API



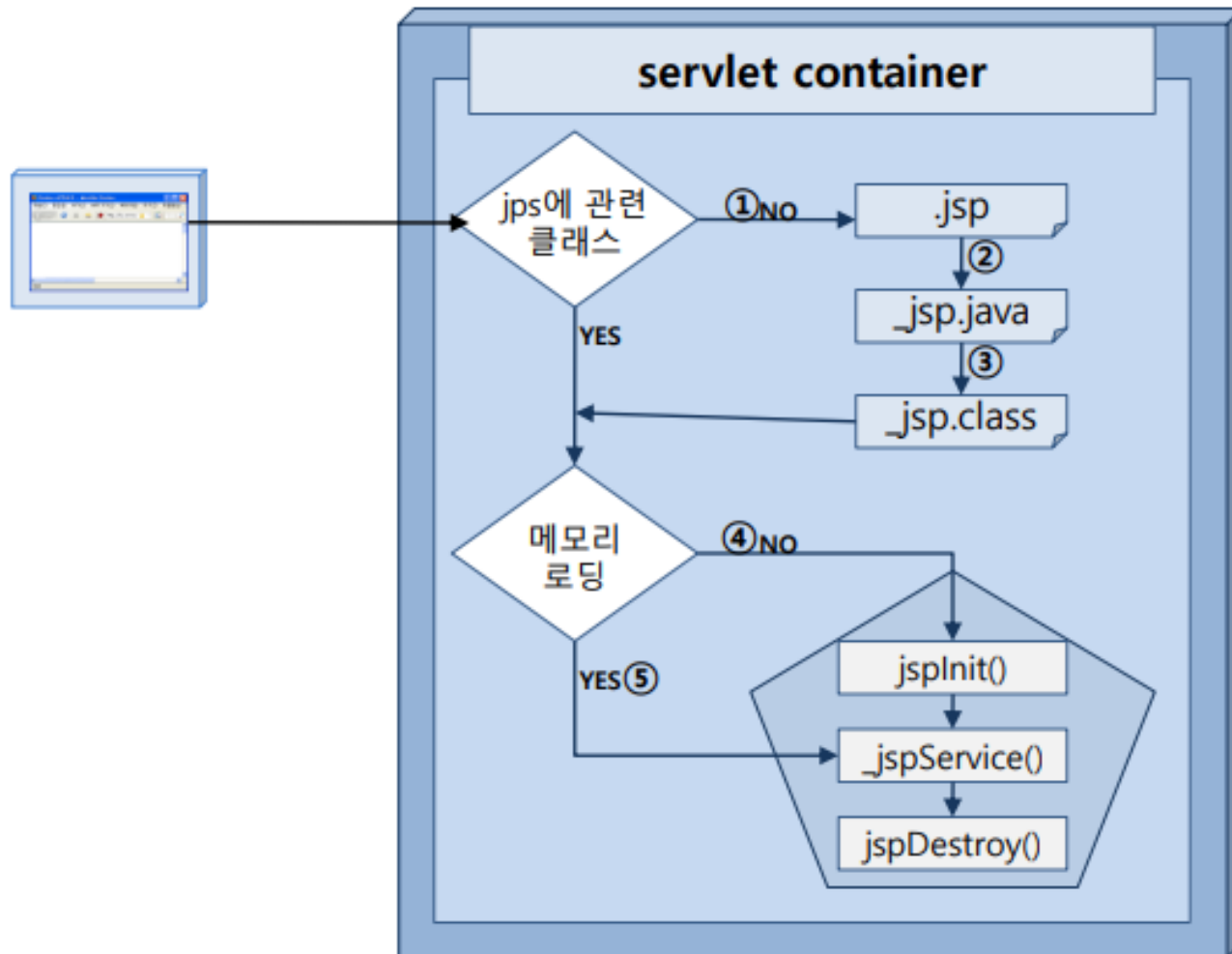
Servlet Life Cycle



Servlet 관련 API



JSP Life Cycle



EL

- `${param.name}`
 - `request.getParameter("name");`
- - `${member}`
 - `request.getAttribute("member")`
- 연산자
 - 산술연산자 : `+` `-` `*` `/` `(div)` `%` `(mod)`
 - 논리연산자 : `&&(and)` `||(or)` `!(not)`
 - 관계연산자 : `==(eq)` `!=(ne)` `<(lt)` `>(gt)` `<=(le)` `>=(ge)`
 - 삼항연산자 : `?:`
 - `${colors == null ? "transparent" : colors}`
 - 그 외 예약어 : `true`, `false`, `null`, `instanceof`, `empty`(`null`이거나 공백일때)

JSTL

JSTL Tag Libraries

Functional Area	URI	Prefix
core	http://java.sun.com/jsp/jstl/core	c
XML processing	http://java.sun.com/jsp/jstl/xml	x
I18N capable formatting	http://java.sun.com/jsp/jstl/fmt	fmt
relational db access (SQL)	http://java.sun.com/jsp/jstl/sql	sql
Functions	http://java.sun.com/jsp/jstl/functions	fn

JSTL

- `<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>`

`<c:out value="${member.name}" default="jjeon" />`

`<c:remove var="no" scope="page" />`

`<c:if test="${member.age < 20}" var="result" scope="page">`
당신은 미성년자입니다
`</c:if>`

`<c:if test="${!empty list}" > content </c:if>`

JSTL

```
<c:choose>
  <c:when test="${vo.type==1}">
    
  </c:when>
  <c:when test="${vo.type==2}">
    
  </c:when>
  <c:when test="${vo.type==0 or vo.type==3}">
    
  </c:when>
  <c:otherwise>
    
  </c:otherwise>
</c:choose>
```

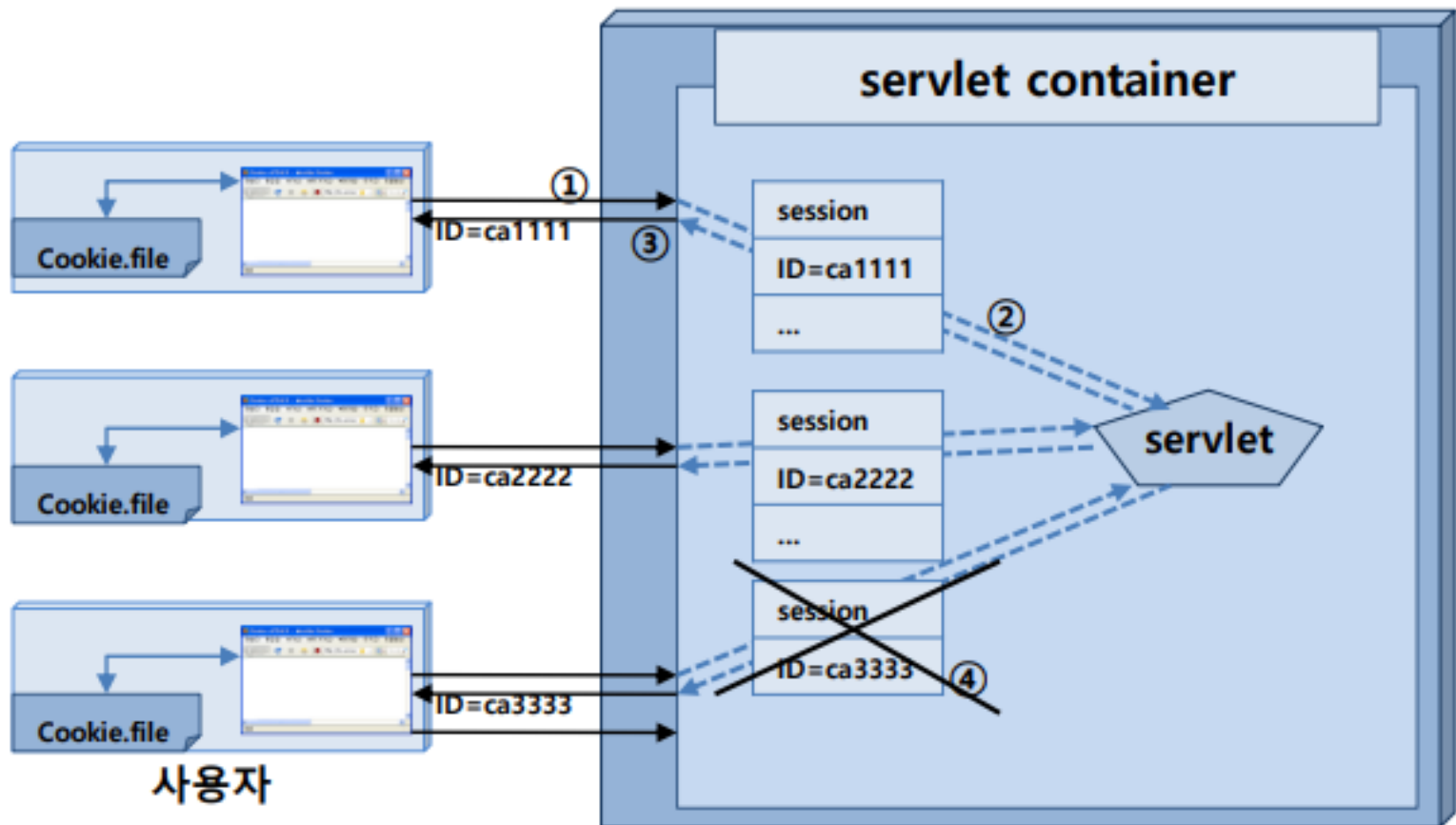
JSTL

```
<c:forEach items="${list}" var="notice" varStatus="status">
  <tr>
    <td>${status.count}</td>
    <td>${notice.title}</td>
  </tr>
</c:forEach>
```

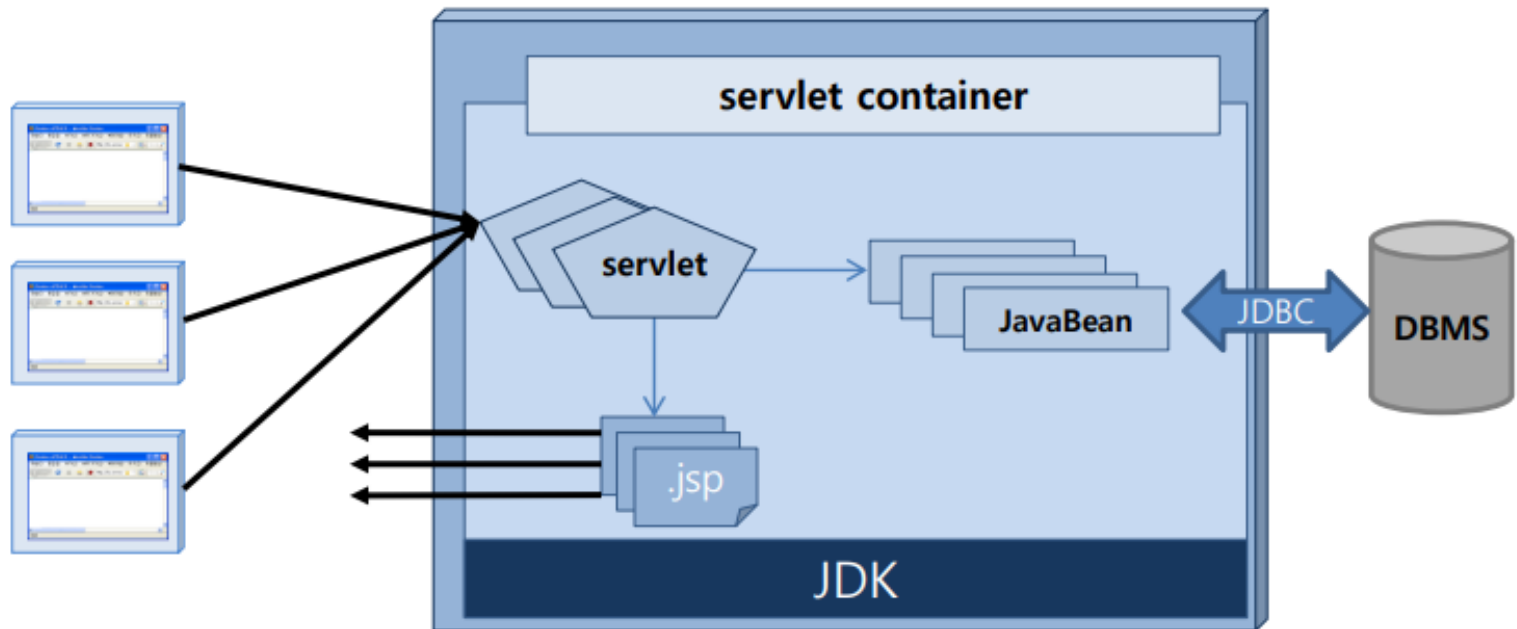
```
<c:forEach var="x" begin="0" end="10" step="2">
  ${x},
  ${x*x}
</c:forEach>
```

HttpSession

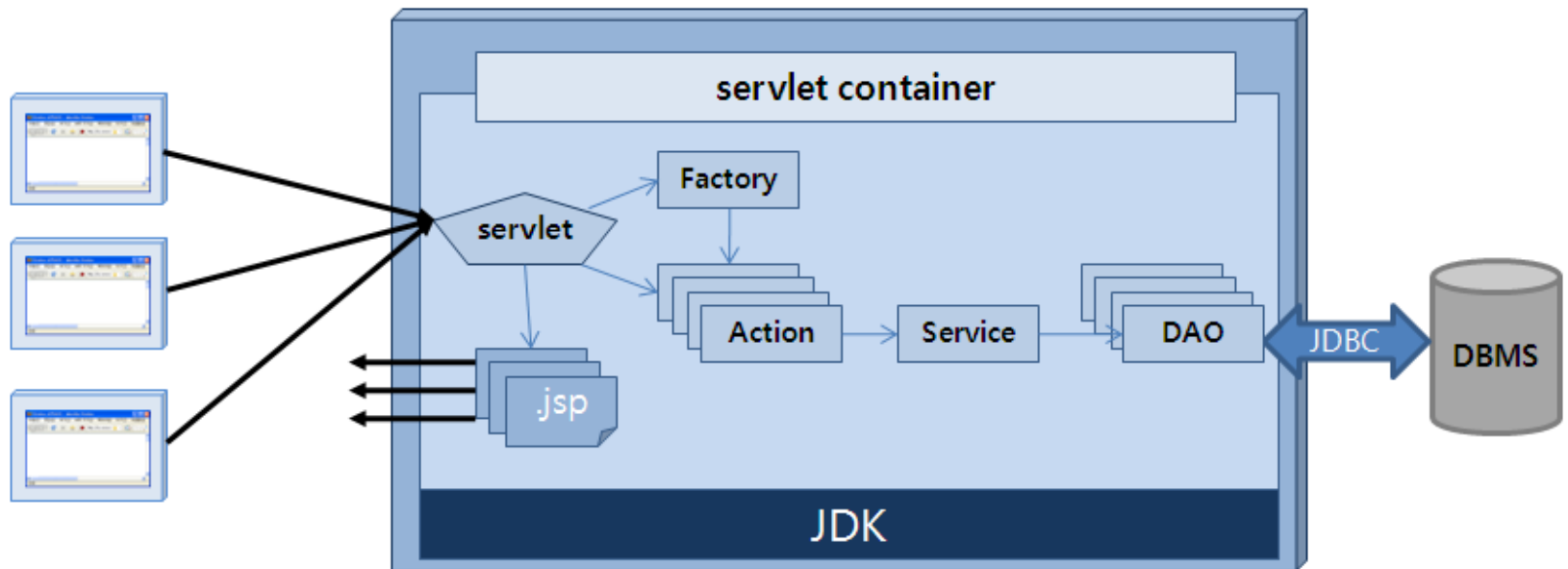
- scope – page, request, session, application



MVC Model2 개발 환경

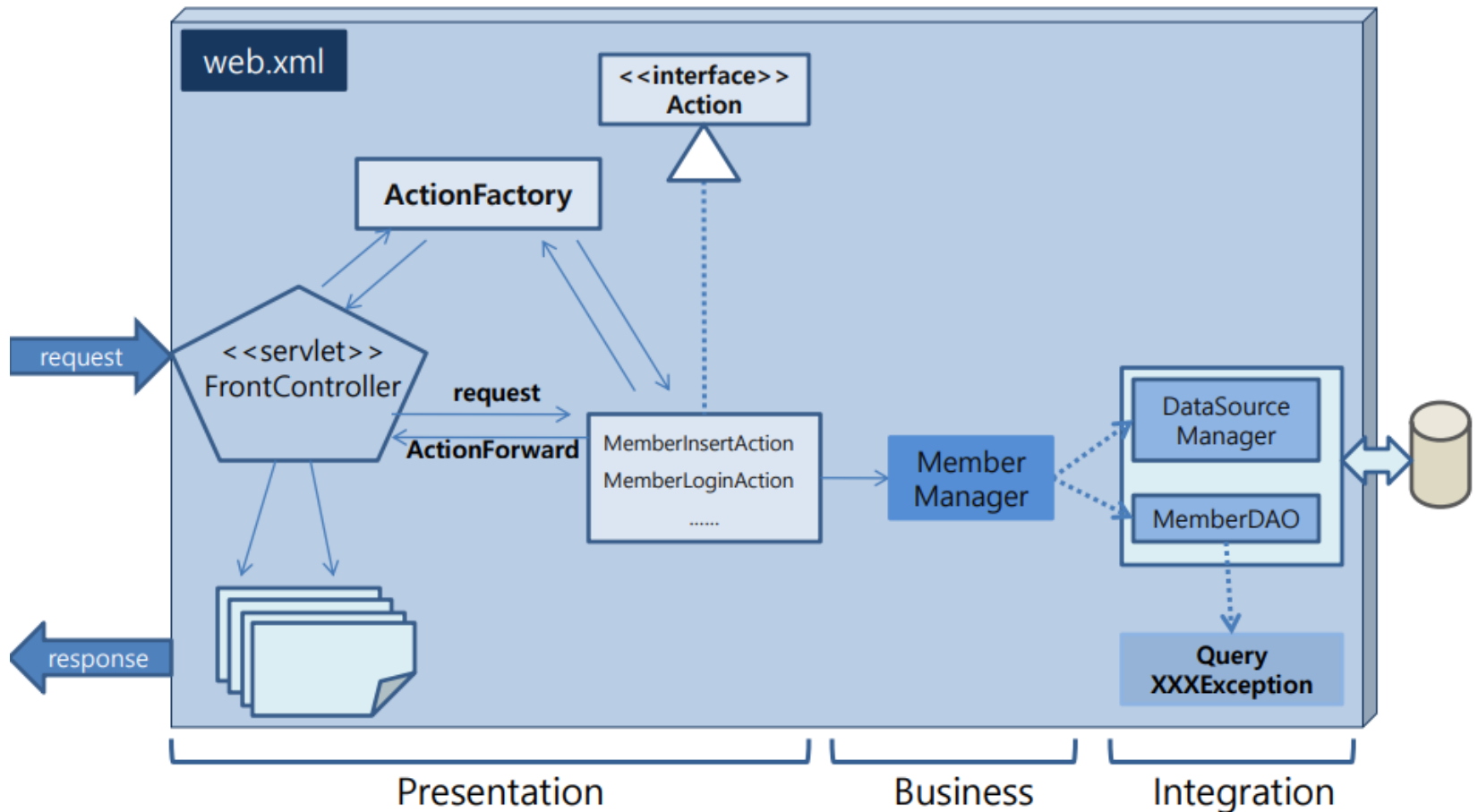


디자인 패턴 적용 개발 환경



디자인 패턴 적용 개발 환경

Servlet Container



SpringMVC 적용 개발 환경

