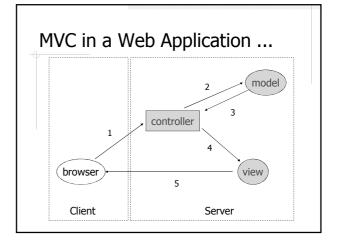


About MVC

- Originate from the work on Smalltalk
- Widely used in GUI applications



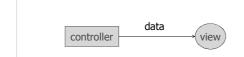
... MVC in a Web Application

- 1. Process request
- 2. Create/update beans
- 3. Store beans in request, session, or application scope
- 4. Forward request to JSP page
- 5. Extract data from beans and display

Guest Book Example Using MVC

- Model
 - GuestBookEntry.java
- **⊗** View
 - GuestBook.jsp, AddComment.jsp, EditEntry.jsp
- Controller
 - GuestBook.java, AddComment.java, EditEntry.java

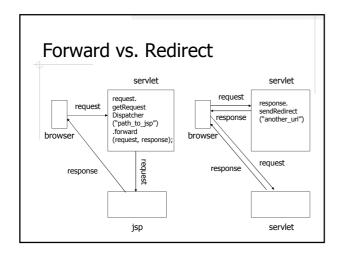
Send Data From Controller to View ...



request.getRequestDispatcher("path_to_jsp")
.forward(request, response);

... Send Data From Controller to View

- Objects in application and session scope are shared by all servlets and JSPs of the application
- Additional data can be passed from servlet to JSP in request scope



More About the MVC Example

- One operation, one controller
- Requests always go to controllers first
 - "Hide" JSPs under /WEB-INF/
- ◆Controllers do not generate HTML
 - No out.println()
- ♦ JSPs are only used for display
- ♦ No scripting elements in JSP