





















HTTP and Sessions











Example Servlet Code















Client Side Scripting

Browsers can fetch certain scripts (client-side scripts) or programs along with documents, and execute them in "safe mode" at the client site

- Javascript
- Macromedia Flash and Shockwave for animation/games
- VRML
- Applets
- Client-side scripts/programs allow documents to be active
 - E.g., animation by executing programs at the local site
 - E.g., ensure that values entered by users satisfy some correctness checks
 - Permit flexible interaction with the user.
 - Executing programs at the client site speeds up interaction by avoiding many round trips to server

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	Javascript		
-	Example of Javascript used <html> <head> <script credits="" n<br="" type="text/javas
function validate() {
var credits=docun
if (isNaN(credits))
alert("></script></head></html>		



Application Architectures

- Application layers
 - Presentation or user interface
 - model-view-controller (MVC) architecture
 - model: business logic
 - view: presentation of data, depends on display device
 - controller: receives events, executes actions, and returns a view to the user
 - business-logic layer
 - > provides high level view of data and actions on data
 - often using an object data model
 - hides details of data storage schema
 - data access layer
 - > interfaces between business logic layer and the underlying database
 - provides mapping from object model of business layer to relational model of database

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