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Building Web Applications with Servlets and JSP

Course Outline

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Section 1: Overview of HTML and HTTP

- Web Clients and Servers
- Establishing a Connection
- What's in a URL?
- HTML: The Language of the Web
- A Basic HTML Page
- HTML Tags
- An Overview of HTTP
- HTTP: The Web's Protocol
- Sending Parameters
- The HTTP GET
- The HTTP POST
- How Does HTTP Impact Me?
- Overview of the MVC Architecture

Section 2: Tomcat Installation and Configuration

- Installing and Running Tomcat
- Setting up Your Environment

Section 3: Web Applications

- Building A Web Application
- Web Application Structure
- web.xml
- Packaging Web Applications

Section 4: Servlets

- The Need For Servlets
- Alternatives to Servlets
- The Servlet Container
- Required Packages
- Interfaces and Classes
 - Interface javax.servlet.Servlet
 - javax.servlet.ServletConfig
 - javax.servlet.GenericServlet
 - javax.servlet.http.HttpServlet
- A Basic Servlet
- Mapping Servlets in web.xml
- Executing the Servlet
- The Servlet Life Cycle
- The Request/Response Cycle
- service(), doGet() and doPost()
- Passing Parameters to a Servlet
- Retrieving Data from the Browser
- Cooperative Servlets

Section 5: Communication between Servlets

- The ServletContext
- The Request Dispatcher
- Request.getRequestDispatcher()
- ServletContext.getRequestDispatcher()
- Includes
- Forwards
- Redirects
- Http Error Codes

Section 6: Sessions and Cookies

- Cookie Overview
- Persistence of Cookies
- Viewing Cookies
 - javax.servlet.http.Cookie
- Setting Persistent Cookies
- How Cookies are Sent
- Retrieving a Cookie

Section 7: Sessions

- The Need For Sessions
- How Sessions Work
 - javax.servlet.http.HttpSession

Section 8: Sharing Data Among Servlets

- Scope
- The Request
- The Session
- The ServletContext

Section 9: JavaServer Pages

- Overview of JSPs
- JSPs as Servlets
- JSP Tags
- Expressions
- Scriptlets
- Directives
- Declarations
- Comments

Section 10: JSP Actions

- include
- forward
- Implicit JSP Objects
 - request
 - response
 - out
 - session
 - exception

Section 11: JSP Custom Tags