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Java Server Pages (JSP) is a server-side programming technology that enables the creation of dynamic, platform-independent method for building Web-based applications. JSP have access to the entire family of Java APIs, including the JDBC API to access enterprise databases. This tutorial will teach you how to use Java Server Pages to develop your web applications in simple and easy steps. Why to Learn JSP? JavaServer Pages often serve the same purpose as programs implemented using the Common Gateway Interface (CGI). But JSP offers several advantages in comparison with the CGI. Performance is significantly better because JSP allows embedding Dynamic Elements in HTML Pages itself instead of having separate CGI files. JSP are always compiled before they are processed by the server unlike CGI/Perl which requires the server to load an interpreter and the target script each time the page is requested. JavaServer Pages are built on top of the Java Servlets API, so like Servlets, JSP also has access to all the powerful Enterprise Java APIs, including JDBC, JNDI, EJB, JAXP, etc. JSP pages can be used in combination with servlets that handle the business logic, the model supported by Java servlet template engines. Finally, JSP is an integral part of Java EE, a complete platform for enterprise class applications. This means that JSP can play a part in the simplest applications to the most complex and demanding. Applications of JSP As mentioned before, JSP is one of the most widely used language over the web. I'm going to list few of them here: JSP vs. Active Server Pages (ASP) The advantages of JSP are twofold. First, the dynamic part is written in Java, not Visual Basic or other MS specific language, so it is more powerful and easier to use. Second, it is portable to other operating systems and non-Microsoft Web servers. JSP vs. Pure Servlets It is more convenient to write (and to modify!) regular HTML than to have plenty of println statements that generate the HTML. JSP vs. Server-Side Includes (SSI) SSI is really only intended for simple inclusions, not for "real" programs that use form data, make database connections, and the like. JSP vs. JavaScript JavaScript can generate HTML dynamically on the client but can hardly interact with the web server to perform complex tasks like database access and image processing etc. JSP vs. Static HTML Regular HTML, of course, cannot contain dynamic information. Audience This tutorial has been prepared for the beginners to help them understand basic functionality of Java Server Pages (JSP) to develop your web applications. After completing this tutorial you will find yourself at a moderate level of expertise in using JSP from where you can take yourself to next levels. Prerequisites We assume you have little knowledge of how web applications work over HTTP, what is web server and what is web browsers. It will be great if you have some knowledge of web application development using any programming language. Java Server Pages (JSP) is a technology which is used to develop web pages by inserting Java code into the HTML pages by making special JSP tags. The JSP tags which allow java code to be included into it are . It can consist of either HTML or XML (combination of both is also possible) with JSP actions and commands. It can be used as HTML page, which can be used in forms and registration pages with the dynamic content into it. Dynamic content includes some fields like dropdown, checkboxes, etc. whose value will be fetched from the database. This can also be used to access JavaBeans objects. We can share information across pages using request and response objects. JSP can be used for separation of the view layer with the business logic in the web application. Lesson 1 JSP Life Cycle – Introduction, Phases, Methods Lesson 2 Run JSP Program – How to Run JSP Program on Jboss Server in Eclipse Lesson 3 JSP Elements – JSP Declaration, JSP Syntax, JSP Expression, JSP Comments Lesson 4 JSP Directives – Page, Include & Taglib Tutorial Lesson 5 JSP Implicit Objects – Complete Tutorial Lesson 6 JSP Standard Action Tags – include, useBean, forward, param Lesson 7 What is Expression Language (EL)? – JSP Expression Language (EL) Tutorial Lesson 8 Exception Handling in JSP – Try Catch Lesson 9 MVC Architecture in JSP – Learn with Example Lesson 10 JSTL (JSP Standard Tag Library) Tutorial – Core & Custom Tags Examples Lesson 11 JSP Action elements – client request, server response, HTTP status codes Lesson 12 Cookies in JSP – Learn with Example Lesson 13 JSP Form Processing – JSP Form Processing Using getParameter() Lesson 14 JSP Filters – Web.xml Filter Mapping in JSP Servlet Lesson 15 JSP Date Handling – JSP Current Date and Time Lesson 16 JSP Database Connection – Select, Insert, Update & Delete Example Lesson 17 JSP Program Examples – Registration & Login Form Lesson 18 JSP File Upload – File Upload & File Download Program Examples Lesson 19 Debugging in JSP – Learn with Example Lesson 20 Servlet vs JSP – What's the Difference? Lesson 21 JSP Interview Questions – Top 50 JSP Interview Questions & Answers Lesson 22 Spring Boot Interview Questions – Top 70 Spring Boot Interview Q & A Lesson 23 What is Maven? – Project Framework | Uses | Architecture Tutorial Lesson 24 Maven Interview Questions – Top 20 Maven Interview Questions & Answers In Java server pages JSP, the execution is much faster compared to other dynamic languages. It is much better than Common Gateway Interface (CGI). Java server pages JSP are always compiled before its processed by the server as it reduces the effort of the server to create process. Java server pages JSP are built over Java Servlets API. Hence, it has access to all Java APIs, even it has access to JNDI, JDBC EJB and other components of java. JSP are used in MVC architecture (which will be covered in MVC architecture topic) as view layer. The request is processed by a view layer which is JSP and then to servlet layer which is java servlet and then finally to a model layer class which interacts with the database. JSP is an important part of Java EE, which is a platform for enterprise level applications. The advantage of JSP is that the programming language used is JAVA, which is a dynamic language and easily portable to other operating systems. It is very much convenient to modify the regular HTML. We can write the servlet code into the JSP. It is only intended for simple inclusions which can use form data and make connections. JSP can also include the database connections into it. It can contain all type of java objects. It is very easy to maintain Performance and scalability of JSP are very good because JSP allows embedding of dynamic elements in HTML pages. As it is built on Java technology, hence it is platform independent and not depending on any operating systems. Also, it includes the feature of multithreading of java into it. We can also make use of exception handling of java into JSP. It enables to separate presentation layer with the business logic layer in the web application. It is easy for developers to show as well as process the information. In this guide, we will learn what is an instance and schema in DBMS. DBMS Schema Definition of schema: Design of a database is called the schema. Schema is of three types: Physical schema, logical schema and view schema. For example: In the following diagram, we have a schema that shows the relationship between three tables: Course, Student and Section. The diagram only shows the design of the database, it doesn't show the data present in those tables. Schema is only a structural view(design) of a database as shown in the diagram below. The design of a database at physical level is called physical schema, how the data stored in blocks of storage is described at this level. Design of database at logical level is called logical schema, programmers and database administrators work at this level, at this level data can be described as certain types of data records gets stored in data structures, however the internal details such as implementation of data structure is hidden at this level (available at physical level). Design of database at view level is called view schema. This generally describes end user interaction with database systems. To learn more about these schemas, refer 3 level data abstraction architecture. DBMS Instance Definition of instance: The data stored in database at a particular moment of time is called instance of database. Database schema defines the variable declarations in tables that belong to a particular database; the value of these variables at a moment of time is called the instance of that database. For example, lets say we have a single table student in the database, today the table has 100 records, so today the instance of the database has 100 records. Lets say we are going to add another 100 records in this table by tomorrow so the instance of database tomorrow will have 200 records in table. In short, at a particular moment the data stored in database is called the instance, that changes over time when we add or delete data from the database.

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