

J2ee The Complete Reference Tata Mcgraw Hill

Tiers 5e776afa19 General 5e776afa19 N Tier Architecture :- . - Application which divides into more than 3 tier can call as n-tier architecture. • - Basically it divides with four application layers client, web, business and database tier. 5e776afa19 Call to destroy() method: • The destroy() method is called only once at the end of the life cycle of a servlet. . This method gives your servlet a chance to close database connections, and perform other such cleanup activities. • The destroy method definition looks like this - • public void destroy 5e776afa19 Why EJB Technology? 5e776afa19 Introduction of JDBC • Sun released the JDBC as a separate package under the name java.sql. • The JDBC API is based on the SQL CLI (call level interface). • This standard explain how to access databases with function calls embedded in application 5e776afa19 Servlet :- . - Servlet are the java classes which dynamically extends the functionality of web server. . - It executes on the server side of the web connection - Servlet dynamically generate HTML as a result of a HTTP request. 5e776afa19 Platform Value to Business Customers 5e776afa19 Introduction 5e776afa19 Distributed Computing Using RMI 5e776afa19 Java.Lang and Java.Util Advance Java 5e776afa19 This package is having following classes and interfaces. • (1) Servlet Interface :- It is having the method which define the life cycle of Servlet. (2) ServletConfig interface - It provides basic parameter of the Servlet. . (3) ServletContext interface It provides the runtime environment to the Servlet like logi . . (4) GenericServlet class :- It implements the Servlet, ServletConfig \u0026amp; Serialization interface. • (5) ServletRequest interface - It is used to read 5e776afa19 Synchronization in Advance Java 5e776afa19 What Makes Up J2EE? 5e776afa19 Call to the service() method : The containers call the service() method each time the request for servlet is received • The service() method will then call the doGet() or doPost() methos based ont eh type of the HTTP request . public void service ServletRequest request 5e776afa19 Keyboard shortcuts 5e776afa19 J2EE Material | Part - 1 - J2EE Material | Part - 1 8 minutes, 22 seconds - J2EE, Tutorial. 5e776afa19 Web Container handles requests for servlets, JSP and other types of file. • Web Container creates servlet instances, loads and unloads servlets, creates and manage request and response objects and performs other servlet management tasks. 5e776afa19 EE provides different types of services which are useful to create large scale application that is multi-tier application. • Enterprise applications can be run on different platforms supporting Java 2 Platform • J2EE is open and standard based platform for developing deploying and managing n-tier applications. 5e776afa19 Platform Value to Vendors 5e776afa19 Advantages of using JDBC • (1) Support a variety of relational databases. • (2) it is easy and economical. • (3) It allows continuous usage of already installed databases . (4) It has a short development time. (5) Installation and version control is simple. 5e776afa19 What is EJB Technology? 5e776afa19 Java Message Service (JMS) 5e776afa19 Generics in Java Advance Java 5e776afa19 Images in Java Advance Java 5e776afa19 Type 1 and Type 2 Drivers | Learning J2EE in English | Learn Java EE Tutorial - Type 1 and Type 2 Drivers | Learning J2EE in English | Learn Java EE Tutorial 10 minutes, 41 seconds - Pebbles presents \"Learning **J2EE**, \"a software tutor to learn the basic architecture of **J2EE**,overview of all **J2EE**, components and ... 5e776afa19 JDBC 5e776afa19 Possible J2EE Application Anatomies 5e776afa19 Advanced Java Full Course 2026 | Advance Java Tutorial | J2EE, JSP, JDBC, Java API | Simplilearn - Advanced Java Full Course 2026 | Advance Java Tutorial | J2EE, JSP, JDBC, Java API | Simplilearn 4 hours, 13 minutes - AI Accelerator Program - From Prompts to Agentic Workflows ... 5e776afa19 String Handling in Java Advance Java 5e776afa19 J2EE Containers \u0026amp; Components 5e776afa19 What is the J2EE? 5e776afa19 What is a Servlet? 5e776afa19 J2EE Management (JSR-77) 5e776afa19 Data Access Layer • This layer provides a simple API for accessing and manipulating data. • Each components provides methods to perform Create, Read, Update and Delete operation for a specific business entry. 5e776afa19 Remote Reference Layer (RRL) • RRL is a interface between the proxy layer and transport layer. . This layer is present on the client as well as on the server • The RRL on the client side receives the request from stub and that request is then transferred to the RRL on the server side. 5e776afa19 CS 401 Introduction to J2EE - CS 401 Introduction to J2EE 1 hour, 2 minutes - This video provides an introduction to the Java Enterprise Edition (**J2EE**,) platform for enterprise development projects. It's just an ... 5e776afa19 Components 5e776afa19 EJB Container :- . - EJB Container is a Server container which is used to manage Enterprise beans components. 5e776afa19 Regular Expression in Java Advance Java 5e776afa19 Introduction to Server . It is a software to provide services to the application. There are two types of server. . (1) Web Server • (2) Application Server • Web Server contains only web or servlet container. For ex- Apache Tomcat • Application Server contains Web and EJB container. For ex-Glassfish 5e776afa19 JAAS Pluggable Authentication 5e776afa19 Multithreading in Advance Java 5e776afa19 Connector Architecture 5e776afa19 Cookie class :- It is used to store the state information at client side or in the client machine. • (5) HttpSession interface :- It is used to create session and provides the way of reading and 5e776afa19 Characteristic of JDBC (1) It is cal level SQL interface for JAVA. (2) JDBC mechanism are simple to understand and use. • (3) It provides a Java Interface that stays consistent with rest of the Java System. . (4) JDBC may be implemented on top of common SQL level APIs. . (5) It uses strong, static typing whenever possible. 5e776afa19 Apache Tomcat is an open source web server and servlet container developed by the Apache Software Foundation (ASF) • Tomcat implements the Java Servlet and Java 5e776afa19 PreparedStatement: It can be placed in place of Statement, It gives high performance as compare to Statement. • CallableStatement. It support stored procedure of RDBMS. • ResultSet : This object is used to store the 5e776afa19 This types of drivers are completely implemented in java to make it platform independence. • Type-4 Driver converts JDBC calls into the vendor specific DBMS protocol. 5e776afa19 (1) Loading Servlet Class : A Servlet class is loaded when first request for the servlet is received by the Web Container. . (2) Servlet instance creation :After the Servlet class is loaded, Web Container creates the instance of it. Servlet instance is created only once in the life cycle. 5e776afa19 Content Type . - Content type is also known as MIME (Multipurpose internet Mail Extension) type. . - It is a HTTP header that header that provides the description about what are you sending to the browser. 5e776afa19 Unit1-1.1 Introduction of J2EE - Unit1-1.1 Introduction of J2EE 32 minutes - This session is about the introduction of **J2EE**,. #dr subhash technical campus #bca mca #bca #mca #**j2ee**,. 5e776afa19 JMS [Java Message Service]:- . - The JMS API is messaging standard that allow J2EE application components to create, send, receive and read Message in distributed environment. 5e776afa19 Introduction to J2EE | JEE TUTORIAL PART 1 - J2EE CLIENT AND SERVER - Introduction to J2EE | JEE TUTORIAL PART 1 - J2EE CLIENT AND SERVER 6 minutes, 36 seconds - Download the

PPT from the <http://java9s.com/servlets-jsp-jee-j2ee/>, introduction-to-java-enterprise-edition This video gives an ... 5e776afa19 JDBC Java Database Connectivity 5e776afa19 ODBC stands for Open Database Connectivity • The JDBC-ODBC bridge driver converts all JDBC calls into ODBC calls and sends them to ODBC driver. • The ODBC driver then forwards the call to the database server. 5e776afa19 Three Tier Architecture :- . - Application which is divided into three tiers client, middle and database tier this kind of application is known as three tier architecture. . - Logic is physically separates the business rules. - presentation layer runs on client machine, application and business logic runs on J2EE server and database logic is there with database layer. 5e776afa19 The Stub Class • The stub is a client side proxy of the remote object. It has three primary responsibility. . (1) It presents the same remote interfaces as the object of server . (2) It works with Java Virtual Machine and RMI system on client machine and sends the information to server machine. . (3) The stub receives any result from the remote method and return it to the client. 5e776afa19 21 J2EE Chapter03 JavaServer Pages Code Lesson2 Method \u0026 Object References - 21 J2EE Chapter03 JavaServer Pages Code Lesson2 Method \u0026 Object References 4 minutes, 50 seconds - J2EE, Video Tutorials **J2EE**, Video Tutorials With Example Excercise Files <http://www.4shared.com/zip/zp9tkj77/Workfiles.html?> 5e776afa19 1 J2EE Chapter01 Introduction to J2EE Lesson1 Course Introduction - 1 J2EE Chapter01 Introduction to J2EE Lesson1 Course Introduction 6 minutes, 56 seconds - J2EE, Video Tutorials **J2EE**, Video Tutorials With Example Excercise Files <http://www.4shared.com/zip/zp9tkj77/Workfiles.html?> 5e776afa19 Enterprise Computing 5e776afa19 Intro 5e776afa19 Servlet technology is used to create web application which is available server side and generate dynamic web page. • Servlet is a class that extends the capabilities of the servers and respond to the any types of incoming request .Servlet is an API that provides many interfaces and classes including documentation. 5e776afa19 RMI stands for \"Remote Methods Invocation\". • RMI is the technology which allows the client to Remote object communication or object to object communication between different Java Virtual Machine. . In short, RMI provides remote communication between program written in java programming language • It is communicating with each other by using TCP/IP protocol. 5e776afa19 Subtitles and closed captions 5e776afa19 What is CGI...? • It stands for common gateway interface. • It enable the web server to call an external program and pass HTTP request information to the external program to process the request. . For each request, it starts a new process. 5e776afa19 Input?/Output in Advance Java 5e776afa19 Enterprise JavaBeans 5e776afa19 CS 401 Intro to J2EE Fundamentals - Part 1 of 2 - CS 401 Intro to J2EE Fundamentals - Part 1 of 2 1 hour, 11 minutes - This video is designed to give the CS 401 Software Engineering students an introduction to JSP/Servlet (**J2EE**,) concepts and ... 5e776afa19 Advance Java Database Connections 5e776afa19 JDBC Driver Types • The JDBC drivers are provided by database vendors to enable the JDBC API to communicate with the database. • The Java Programs invoke the method of the JDBC API. • The JDBC API then used the JDBC driver to communicate with the databases 5e776afa19 Proxy Layer (Stub and Skeleton) • This layer consists of a Stub and skeleton. • This layer is responsible for listening to the remote method calls made by the client and redirecting them to the server. • The stub and skeleton are created using the RMI compiler. • A stub is a client side proxy representing the remote objects. • The skeleton is a server side proxy that communicates with the stub and it makes a call to the remote object 5e776afa19 EE Platform Architecture or Structure of J2EE Application • Enterprise application are built using some components connected to one another. • Each components provides a specific functionality • Components having similar functionality are generally grouped into layers. 5e776afa19 Spherical Videos 5e776afa19 JAAS: Authentication 5e776afa19 Disadvantages of CGI (1) If number of client increase, it takes more time for sending response. • (2) for each request, it start a process and web server is limited to start process. . (3) It use platform dependent language like C.C++ etc. 5e776afa19 Serialization in Advance java 5e776afa19 J2EE 1.4 APIs and Technologies 5e776afa19 JSF Java Server Faces :- . - JSF is server side technology and it was built to provide a high Graphical user Interface. . - It manage events, state, server side validation, page navigation etc. 5e776afa19 J2EE Architecture Explained Part - 1 | Complete Guide for Beginners (2025) - J2EE Architecture Explained Part - 1 | Complete Guide for Beginners (2025) 10 minutes, 1 second - Learn **J2EE**, Architecture Step by Step! In this video, Prof. Rohit Kadam explains the **complete J2EE**, Architecture in simple ... 5e776afa19 (1) Application Layer • Application Layer consists of the client side java program and server side java program with remote methods. • The client can access the remote method through java.rmi.Remote. . Once the methods described in the remote interface have been implemented, the object must be exported using Unicast RemoteObject class of java.rmi.server. 5e776afa19 Enterprise Information Systems 5e776afa19 Advantages: . - Easy to maintain and manage. . - Separation of user interface and logic and business logic and database. • Disadvantages : . - It has more complex structure and difficult to setup and maintain the all the separates 5e776afa19 What is JSP Technology? 5e776afa19 Container are interface between a component and client. • Because of containers we need not to write services for each components included in our application. 5e776afa19 J2EE Deployment (JSR-88) - J2EE 1.4 5e776afa19 Classes and interfaces which support connectivity between interface and database. • Driver Manager : It Manages all the driver found in JDBC environment and load driver for connectivity • Connection: It creates an object which represents connection and its object. • Statement : Statement object is used to execute query and also store its value to Resultset object. 5e776afa19 Presentation Layer • It contains components which are required to interact with the user. • Examples of such components are web pages, client form, user interaction process components etc. 5e776afa19 Web Container :- . - It provides run time environment for application. . - Life Cycle Management • - Security . - Multithreaded Support 5e776afa19 The J2EE Platform Architecture 5e776afa19 Servlets Packages .Servlets can be created using the javax.servlet and javax.servlet.http packages. . These classes implement the Java Servlet and JSP specifications • Packages are expanded version of the Java class library that supports large-scale development projects. 5e776afa19 The web container creates threads for handling the multiple requests to the Servlet. . And thread have a lot of benefits over the processes such as they share a common memory area, lightweight etc. • Java servlets have been created and compiled just like any other Java class. 5e776afa19 Open and Standard Solution 5e776afa19 JDBC API • The JDBC API is a collection of method, classes and interfaces that enable Java application to communicate with database. • First Java Program invokes the method of the JDBC API. • The JDBC API then calls JDBC driver and submit queries • The JDBC driver converts the queries to the SQL statements that database understand. 5e776afa19 Autoboxing in Advance Java 5e776afa19 JNDI Java Naming \u0026 Directory Interface :- . - JNDI is used to access different types of naming services . - This API is designed to be independent of any naming service implementation 5e776afa19 History of Java EE | Learning J2EE in English | Learn Java EE Tutorial - History of Java EE | Learning J2EE in English | Learn Java EE Tutorial 5 minutes, 36 seconds - Pebbles presents \"Learning **J2EE**, \"a software tutor to learn the basic architecture of **J2EE**,,overview of all **J2EE**, components and ... 5e776afa19 Networking in Java Advance Java 5e776afa19 Servlet vs. CGI 5e776afa19 Middle Tier 5e776afa19 This package is having following classes and interfaces. . (1) HttpServletRequest interface - It allows the servlet to read the data from HTTP request . (2) HttpServletResponse interface :- It allows the servlet to write the data to an HTTP request. . (3) HttpServlet class :- It provides the method of

handling HTTP requests and responses. 5e776afa19 Call to the init() method :init() method is called by the Web Container to initialize the servlet. • The init method is called only once. It is called when the servlet is created, and not called for any user requests afterwards. So, it is used for one time initializations. . The init() method definition looks like this - public void init() throws ServletException 5e776afa19 RMI Architecture • RMI Architecture defines the how the client request to the server for the remote objects and how the server processes for that request. • RMI architecture basically divides in four layers. . (1) Application Layer (2) Proxy Layer (Stub and Skeleton) (3) Remote Reference Layer (RRL) . (4) Transport Layer 5e776afa19 Java Beans Advance Java 5e776afa19 Architecture of Java EE | Learning J2EE in English | Learn Java EE Tutorial - Architecture of Java EE | Learning J2EE in English | Learn Java EE Tutorial 7 minutes, 50 seconds - Pebbles presents \"Learning **J2EE**, \"a software tutor to learn the basic architecture of **J2EE**, overview of all **J2EE**, components and ... 5e776afa19 JSP Java Server Pages :- . - The Java server pages are an extension of the servlet API. • - JSP simplifies the generation of dynamic web pages by providing template driven web application development. . - It uses HTML like tags and Java Scriptlets to encapsulate the logic required to generate pages in a platform independent way. 5e776afa19 This types of driver communicates directly with the database server. . So that, the vendor database library needs to be installed on each client computer. • This driver converts JDBC calls into specific calls for databases. 5e776afa19 Advantages: . - This driver offer better performance than JDBC-ODBC bridge. • Disadvantages: . - Native API must be installed in the client system. . - This driver can not be used with internet. . - Outdated Now. 5e776afa19 Non-Blocking Input/Output in Java 5e776afa19 Client Tier 5e776afa19 Playback 5e776afa19 Spring MVC 5e776afa19 Enumeration in Advance Java 5e776afa19 ServletResponse interface :- It is used to write the client response data. • (7) ServletException class - It defines servlet errors. (8) UnavailableException class :- It defines that Servlet is not available. • (9) ServletInputStream class - It provides input stream to read the data from the client request. . (10) ServletOutputStream class - It provides output stream to writing the data as a response to 5e776afa19 Introduction to Java EE (J2EE) tutorial guide - Introduction to Java EE (J2EE) tutorial guide 13 minutes, 29 seconds - Introduction to Java EE (**J2EE**,) tutorial **guide**, - PPT. 5e776afa19 EJB [Enterprise Java Beans] :- . - This API is useful to define server side components. . - The J2EE supports components based application developments. . - There are 3 types of EJB, Session Beans, Entity Beans, Message Driven Beans. 5e776afa19 Advantages :- . - It Provides security because client does not have direct access to the database. . - It Provides better reusability because the same logic can be used by many cliens or application. • Disadvantage :- . - It is difficult to develop. . - It is more complex than 2 tier architecture. 5e776afa19 Spring Boot Project 5e776afa19 Annotation in Advance java 5e776afa19 Platform Value to Developers 5e776afa19 Tomcat is also useful to debug JSP and servlet pages before deploying on the server. . Using JSP and Servlet we can develop dynamic web pages • Web Container is the components of a web server that interacts with Java Servlets. • A Web container is responsible for managing life cycle of servlets. 5e776afa19 Two Tier Architecture :- . - In this application is divided into two separate client machine and database server machine. - Data is accessed by connecting client machine to a database which is in anoher machine. 5e776afa19 Applet Container :- . - Applet Container is a client container which is used to manage an execution of the applet on the web browser. 5e776afa19 Transport Layer • Transport layer manages the connection between reference layer and remote server machine • It is responsible for handling the actual machine to machine communication via TCP/IP. 5e776afa19 N-tier J2EE Architecture 5e776afa19 Spring and REST API 5e776afa19 Search filters 5e776afa19 Java Mail :- . - This API provides a platform independents and protocol independent framework to build Java based email application. - It uses POP3 and SMTP as its mechanism. 5e776afa19 Business Layer . It contains the core business functionality of the application • The business components are generally front ended by a service interface that acts as a front wall to hide the business logics. • It is known as SOA - Service oriented architecture. 5e776afa19 Concurrency Utilities Advance Java 5e776afa19 Session Objectives 5e776afa19 Single Tier Architecture :- . - Simple Software application are written to run on a single computer. . - All user input, verification, logic, and data accessed are found together. . - This kind of architecture is called as single tier architecture because all logic application services, the presentation, rules and data access layer available in a single computing layer. 5e776afa19 Spring Framework Advance Java 5e776afa19

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