PANYA TECHNOLOGIES

Technology to Live…

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J2EE

Web applications and HTTP basics:

- Servlets.
- Servlet model.
- Servlet Life cycle.
- Servlet container model.
- Coordinating servlets / Information sharing.
- Http servlet package.
- Session management.
- Filters.
- Listeners
- Web applications security.

JSP(Java Server Pages):

- JSP Elements
- Directives.
- Declarations.
- Scrip lets.
- Expressions.
- JSP Actions.
- Comments.
- Implicit objects.
- Expression Language (EL).

Model1 and Model2 Architectures:

- JSTL.
- JNDI.
- Resource Connections
- JSP Elements

Data Source objects.

- Connection pools.
- JTA (JavaTransactionAPI).
- MS (JavaMessagingService).
- JSP Elements
- Point-to-Point Messaging.
- Publish/Subscribe Messaging.
- RMI.
- Design Patterns.

Overview of EJB 3.0:

- What is an EJB?
- Why should you use EJB?
- When should you not use EJB?
- What's new in EJB 3.0?

The EJB 3.0 Simplified API

- A quick review of annotations in Java 5
- Overview of using annotations to develop EJB
- Annotations vs. Deployment descriptors

Interceptors

- Aspect Oriented Programming (AOP) in JEE
- Intercepting methods
- Building Interceptor Classes

Session Beans

- Developing Stateless and Stateful beans
- Related Annotations
- Life-cycle of session beans
- Session bean best practices
- Linking UML modeling constructs with Session Beans

Message-Driven Beans

- Introduction to asynchronous beans
- Introduction to the Java Message Service (JMS) API
- Configuring the activation context
- Configuring the JMS message providers

Injectors

- What are Injectors?
- Using injectors to access resources and EJBs
- Accessing the EJB context and the Environment Naming Context (ENC)
- Setter injection
- Simplifying lookup of beans and resources using injectors
- Annotation used for injection

Java Persistence API (JPA)

- Overview of Java Persistence API for EJB 3.0
- Entity class and O/R mappings
- Overview of packing and deploying entities

Entities

- Persistent fields and properties
- Entity relationship mappings
- Inheritance mappings
- Annotations and XML descriptors for defining mappings

Entity Operations

- The Entity Manager interface
- Entity instance life cycle
- Entity listeners and call-back methods

Java Persistence Query Language (JPQL)

- Overview of EJB 3.0 query language
- Writing portable queries based on Entities
- Building native queries for performance
- Building custom finders
- Polymorphism
- Automatic storage of query results in plain old Java objects (POJO)

EJB Timer Service

- Overview of Timer Service
- Timer Service APIs
- Using injectors to inject Timer Service
- Programming with Timer Service
- Scheduling recurring tasks

EJB Transactions

- Container vs. Bean managed transactions
- Container-managed transaction attributes
- Transaction propagation
- Accessing the User Transaction service using injectors
- Invoking the User Transaction service using JTA
- Transaction Isolation attributes
- Session Synchronized Stateful Session Beans
- Transactions and exceptions
- Using annotation to specify transaction attributes

EJB Security

- Security annotations
- Roles, Groups and Permissions
- Declarative vs. Programmatic security
- Accessing the Security services using the EJB Context
- Switching the security context

Struts Frame Work

- Tools
- Eclipse.
- My Eclipse.
- Net Beans.

WEB/APPLICATION SERVERS

- Tomcat.
- Web logic.
- Web sphere