

B345 Internet Science and Technology

Week 9 lecture 1

Today's Lecture Learning Objective

- Understand the basic architecture of Java solutions.

Java Architect

- Sun's concept of Architecture:
 - Sun Certified Enterprise Architect (SCEA)
 - J2EE
 - Unified Process (SunTone Architecture Methodology)
 - Patterns
 - Service-driven through systemic qualities

Java Architect

- www.sun.com/service/sunps/architect/sun_architecture_whitepaper.pdf
- www.sun.com/service/sunps/jdc/suntoneam_wp_5.24.pdf

J2EE Solutions

<< See diagram A >>

Java Editions and APIs

- J2SE
- J2EE
- J2ME
- Others (Java APIs for XML)

Java Container Components

- Applications
- Applets
- Web (Servlets and JSP)
- Enterprise Java Beans (EJB)

EJBs

- Characteristics
 - Contains business logic
 - Managed by containers
 - Mediates client access
 - Transaction, state, resource and security management.

Patterns

<< <http://java.sun.com/blueprints/corej2eepatterns/> >>

<< See example J2EE patterns at
<http://java.sun.com/blueprints/corej2eepatterns/Patterns/index.html> >>

Comparing .NET and Java

- Programming language
- Platform
- Interpreter
- Class libraries
- Web Access
- Data Access
- User Interface
- Development Tools