Week 1

- Read Chapter 1-2 of Service Design Patterns
- Load Newest J2EE, Netbeans, WebServices
- Read J2EE Overview and Tutorial (http://java.sun.com/javaee/5/docs/tutorial/doc/JavaEETutorial.pdf)
- Review Web Application Technologies (http://java.sun.com/javaee/technologies/)
  - JavaServer Faces 1.2 JSR 252
  - JavaServer Pages 2.1 JSR 245
  - JavaServer Pages Standard Tag Library JSR 52
  - Java Servlet 2.5 JSR 154

Week 2

- Read Chapter 3 of Service Design Patterns
- Work on Restful web service implementation.
Week 3

• Pragmatic initiatives
  • Setting up Version Control
  • Thinking about a registry
  • Finding a final project – Authoring Services??
  • Core functionality
  • Peripheral Services
• Discussion of WS as an SOA implementation
• Develop a 20 minute presentation on some aspect of web services functionality – see next page

Week 3 (Continued)

• http://java.sun.com/javaee/technologies/
• Web Services Technologies
  • Implementing Enterprise Web Services J2EE 1.9
  • Java API for XML-Based Web Services (JAX-WS) 2.0 J2EE 1.9
  • Java API for XML-Based RPC (JAX-RPC) 1.1 J2EE 1.9
  • Java API for XML Data Interchange (JAX-DAI) 1.1 J2EE 1.9
  • SOAP with Attachments API for Java (SAAJ) J2EE 1.5
  • SOA with Metadata for the Java Platform J2EE 1.7
  • SOAP with Attachments API for the Java Platform J2EE 1.5
• Enterprise Application Technologies
  • Common Annotations for the Java Platform J2EE 1.9
  • Enterprise JavaBeans 3.2 J2EE 1.9
  • JavaServer Faces 1.2 J2EE 1.9
  • JavaServer Faces 2.0 J2EE 1.9
  • JavaServer Pages Technology (JSP) J2EE 1.9
  • JavaMail JSR 919
  • Java Message Service API J2EE 1.9
  • Java Persistence API J2EE 1.9
  • Java Transaction API (JTA) J2EE 1.9
• Management and Security Technologies
  • J2EE Application Deployment J2EE 1.9
  • J2EE Management J2EE 1.9
  • Java Authorization Contract for Containers J2EE 1.9

Finding “the” Registry

• Cornerstone for SOA
  • The ability to register, discover, and govern Web services is an essential requirement for any Service Oriented Architecture (SOA) implementation. This need may not be fully appreciated in the early stages of an SOA roll-out when dealing with a small number of services. However, large organizations will typically need to support a large number of Web services, and as the number of services deployed grows to dozens or hundreds, centralized facilities for access and control of service metadata and artifacts becomes critical. A service registry provides these capabilities and is a key infrastructural component and cornerstone for SOA deployments.
  • http://www.sun.com/products/soa/registry/
Finding “the” Registry

• Service Registry is included as a component of Sun’s Java Enterprise System, beginning with Release 4 in Fall 2005. Service Registry is fully integrated with the Application Server component of Java Enterprise System to enhance overall SOA platform capabilities in both design-time and runtime uses. This is an important dimension in delivery on Sun’s drive towards pragmatic SOA.
  • http://www.sun.com/products/soa/registry/

Finding “the” Registry

• The Java Web Services Developer Pack (Java WSDP) components include implementations of the core WS and XML Java technologies that are fully tested against a number of different containers. Tutorial and documentation are available separately. The Java WSDP community at Java.Net provides more timely, but less stable, builds.
• Looking for a Newer Development Model? As described elsewhere in these pages, the Java WSDP is being superseded by Project GlassFish and its open-source Java EE 5-compatible application server. You can gain access to all of the latest versions of the Java WSDP’s technology components at Project GlassFish with the added benefit of community-based visual development. Technology acquired through Project GlassFish has the additional benefit of leaner, less restrictive licensing. Check out Project GlassFish today!
  • http://java.sun.com/webservices/downloads/webservicespack.html

Finding “the” Registry

• For JWSDP1.4-1.6 – Supports AS 8.1-8.2, not 9.0
• The Java Web Services Developer Pack (Java WSDP) is a free integrated toolkit that allows Java developers to build and test XML applications, Web services, and Web applications with the latest Web services technologies and standards implementations. Technologies in Java WSDP include the Java APIs for XML, Java Architecture for XML Binding (JAXB), JavaServer Faces, Web Services Interoperability Sample Application, XML and Web Services Security, JavaServer Pages Standard Tag Library (JSTL), Java WSDP Registry Server, Ant Build Tool, and Apache Tomcat container. For fully supported, enterprise-class products incorporating Java Web Services technologies, we recommend Sun Java Studio Enterprise and Sun Java System Application Server.
  • http://java.sun.com/webservices/archive.html
Finding “the” Registry

- JWSDP 2.0, supports AS9.0
  - Service Registry has been removed
  - Sun Java System Web Server is no longer a supported container
  - As described elsewhere in these pages, the Java WSDDP is being superseded by Project GlassFish and its open-source Java EE 5-compatible application server.

Finding “the” Registry

- UDDI Registry and Java WSDDP?
  - The new Java WSDDP 2.0 requires J2SE 5.0 (to support annotations).
  - In the UDDI users list, George Orient complaints that UDDI registry is no longer available. Specifically, he points out that (a) the UDDI registry is not included in JWSDP 2.0, and (b) the suggested workaround is to use the registry from earlier versions but, (c) the release notes indicate that the a different machine should be used.
  - Of course, in a classroom situation, having two machines is out of the question. So...
  - Ramesh is finding out more details (I suspect there is no real reason to require two separate machines - we will see). And this is a good moment to welcome Ramesh as a blogger. Ramesh is a really good engineer that is very dedicated to his customers; looking forward to his contributions, including a resolution to this registry thread.
    - http://blogs.sun.com/theaquarium/entry/uddi_registry_and_jwsdp_and

Finding “the” Registry

- Welcome to the Web Services Management Registry features page for GlassFish / Sun Java Application Server (AS 9.0). This page is dedicated to discussing the SOA Registry Specific features. The source code for this feature is part of this cvs repository.
  - https://glassfish.dev.java.net/javaee5/wsmgmt/registry/registryhome.html
  - This page seems to point to a way to make a piece of what we want work, but it is clearly not the whole thing
Week 4

• Service Design Patterns Chapter 4