

Technologies for Federation Architectures and Case Studies

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1 Introduction

The Internet and especially the World-Wide Web (WWW) provide a promising approach to make all kinds of data and information available on both the Internet and on private networks, so-called Intranets. However, making information available as static pages that are written in the Hypertext Markup Language (HTML), is not suited for the great body of data that already resides in database management systems (DBMS) for several reasons. Potentially huge data volumes must be managed twice, data updates are difficult to handle, and search facilities are limited. Another limitation is that standard WWW technology does not allow to combine partial results from different servers in a single result page.

The restrictions sketched above become more and more apparent to both software developers and users as they get more experience when developing and using WWW software. Fortunately, several technologies that are supported widely, address these problems.

The tutorial is organized as follows. In Section 2 these technologies, namely World-Wide Web (WWW), the object oriented programming language Java, and the Object Management Group's Common Object Request Broker Architecture CORBA, are introduced. Section 3 provides an overview on different approaches to access databases on the Web. Additionally, criteria to compare these different approaches are proposed. Several case studies from projects at FZI, in which these approaches have been used, are presented in Section 4. A short summary concludes the tutorial (Section 5).

2 Base Technologies

2.1 The World-Wide Web

The World-Wide Web provides transparent access to distributed documents. It follows a strict client-/server architecture. The stateless Hypertext Transfer Protocol (HTTP) is used for the communication between the client (browser) and the WWW server. The most common format to present information on the Web is the HyperText Markup Language

(HTML), a standardized language for creating formatted hypertext documents, which can even include executable content.

These documents are addressed by using Uniform Resource Locators (URLs). Additionally to such documents, i.e., static HTML pages, Web servers can as well provide transparent access to other information sources such as DBMSs. For this purpose the Web server communicates with application programs via the standardized Common Gateway Interface (CGI) [11]. This mechanism allows clients to submit queries that in turn are processed at the server site by the Web server and the database server.

2.2 Java

Java [2] is an object-oriented programming language that has been especially designed to be used on networks of heterogeneous computers (platform independence). Java can be used both stand-alone and in conjunction with the World-Wide Web. Small Java programs, so-called Applets, are transferred as byte code from a Web server to a browser using HTTP. These Applets are executed by a virtual machine that runs in the browser. Just-in-time compilers improve the performance. The execution model ensures a fairly good degree of security even for Applets that are downloaded across the Internet.

2.3 Common Object Request Broker Architecture

The *Common Object Request Broker Architecture* (CORBA) is a standard for open distributed systems that is defined by the Object Management Group (OMG) [13]. It defines ways for objects and clients to interact within a distributed environment [16, 12].

The main features of the CORBA specification are a core object model, localization transparency (clients and server need not be aware of their respective locations, e.g., at different hosts), and programming language independence. These are realized by providing a specific *Interface Definition Language* (IDL) as well as a *Dynamic Invocation Interface* (DII) for objects. CORBA's *Internet Inter ORB Protocol* (IIOP) enables object request brokers from different vendors to communicate with each other.

Furthermore, CORBA services and CORBA facilities are specified. CORBA services are essential services concerning security, transaction handling, naming, etc. If a system provides these services, they must be CORBA-compliant. CORBA facilities are higher-level services such as desktop management and time operations that are not mandatory.

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