The PRAXIS Prototype, a Browser/Java Applet Client-Server System

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PRAXIS

- Introduction
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- PRAXIS Design
- Remote Database Access
- · Experience Gained
- Future Work

Introduction

- · What is PRAXIS
 - Local web site http://weli10
 - Remote web site http://puffin.cs.uah.edu
- Why PRAXIS
 - Component information
 - Contributor information
 - Data content information
 - Not organized and used in a cohesive manner

PRAXIS Requirements

- Browsing Component Information
 - Name, code, type, manager,...
- Browsing Contributor Information
 - Name, code, web site
- · Browsing Data Content
 - Category

PRAXIS Requirements

- Web-Based Client-Sever System
- Centralized Component Management
- Allows Browsing of the Information From Anywhere Inside Acxiom Domain

PRAXIS Design

- JAVA-Based Architecture
- Third-Party DBMS and Drivers for Remote DB Access Across the Internet
 - dbAnywhere from Symantec
- Combination of HTML Pages and Java Applets
 - HTML: better graphics capability
 - JAVA applet: data processing flexibility

Remote Database Access

- ODBC-JDBC Driver Without Using Third-Party Software Package
 - Pure JAVA solution: failure
- Third-Party Database Product
 - Some also require client installation
- dbAnywhere
 - No client installation

Experience Gained

- Direct Multiple Inheritance in Java
 - Interface solution
- Remote Database Access
 - dbAnywhere, Symantec's middleware database server
- Remote DB Access Requires a Dedicated TCP/IP Port
 - Firewall

Experience Gained

- Browsers Compatibility.
 - Netscape and Explorer
- Classes Communication
 - Through HTML.

Experience Gained

- Your Own Learning Experience
- Climbing the Learning Curve
- Do's and Dont's

Future work

- Using Servlet
 - No dedicated TCP/IP port
- Java Beans
 - Component-based software