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

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PRAXIS

- Introduction
- PARXIS Requirements
- 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 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

PRAXIS Requirements

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

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 Don’ts

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