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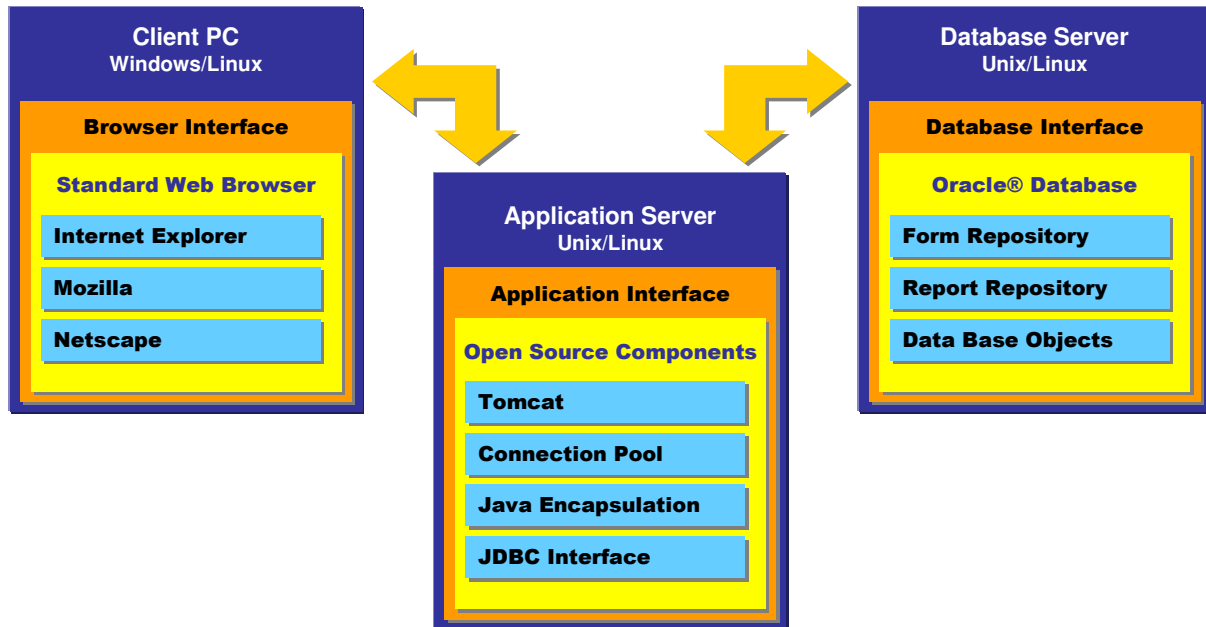## Overview of the Software-Technology

The following diagram gives an overview of our technology concept:

Client PC Windows/Linux
Browser Interface
Standard Web Browser
Internet Explorer
Mozilla
Netscape

Application Server Unix/Linux
Application Interface
Open Source Components
Tomcat
Connection Pool
Java Encapsulation
JDBC Interface

Database Server Unix/Linux
Database Interface
Oracle® Database
Form Repository
Report Repository
Data Base Objects

1 Client PC

Currently we only support **Microsoft**® **Internet Explorer** and **Mozilla / Netscape.** Only these browsers support the features that are essential for our application.

The customers have the choice of using any version of **Microsoft® Windows** or **Linux** as their **Client PC** Operating System.

2 Application Server

The customers may use **OpenSource** components on the application server. **Tomcat** is our standard server program and was base for most of the proprietary servers. Therefore changing from Tomcat to a proprietary server is no problem at all. Access to the **Oracle® RDBMS** is done via a JDBC Interface. Java Encapsulation is used to call the database procedures.

The customers have the choice of using either **Unix** or **Linux** as their Operating System for the **Application Server**.

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3 Database Server

We have decided to use the **ORACLE® RDBMS** as the industry leader for storing all data. The application-API is making use of all **ORACLE®** database objects on the Database Server. Additionally, the database contains the **Form** and **Report Repository** of **ISM*WebForms**.

The customers have the choice of using either **Unix** or **Linux** as their Operating System for the **Database Server**.

4 Standards

- **XML**: eXtended Markup Language
- **DOM**: Document Object Model
- **SOAP**: Simple Object Access Protocol
- **Java**/**JavaScript**
- **JDBC:** Java DataBase Connectivity

5 Development Tools by ISM

- **ISM*WebForms** **Runtime System**
- **WebForms-Designer** as tool for designing forms
- **Data Dictionary** as the **ISM*WebForms** object repository
- **Form Generator** for static form generation from the data dictionary

6 Recommended Additional Tools

- **Sybase PowerDesigner** or **CA ERwin** for data modeling
- **netViz** for process modeling
- ORACLE **JDeveloper** as the Java development environment
- Macromedia **DreamWeaver** and/or Microsoft **Frontpage**