Developing E-Commerce Solutions using the Oracle Platform.



Samuel D. Kounev University of Sofia and Virtech Ltd.

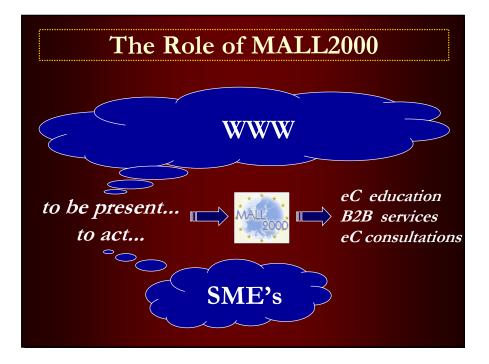
The MALL2000 Project

Mall for Online Business beyond the Year 2000

An EC-funded Project Aiming to Develop an E-Commerce B-to-B Environment To Support SME's in Europe



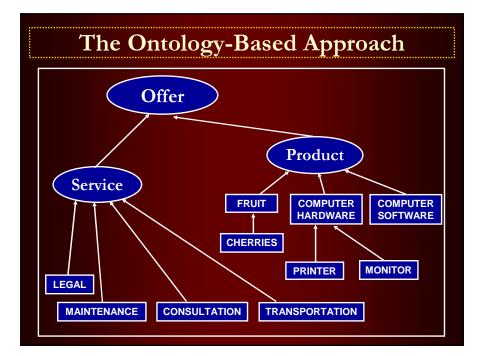




The MALL2000 Services

- Brokering (Supply & Demand Exchange)
- E-newsletter Publishing
- Marketing Surveys
- E-commerce Education and Consulting
- Management of Suppliers and Products
- Document-Centred Services

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The MALL2000 Broker

- Supports b-to-b match making
- Supports supply/demand exchange
- Multi-lingual
- Provides automatic matching & notification
- Includes precise filtering capabilities

Based on ontologies, which structure the information space by classifying and describing the types of business offers & requests.

Management of Suppliers and Products

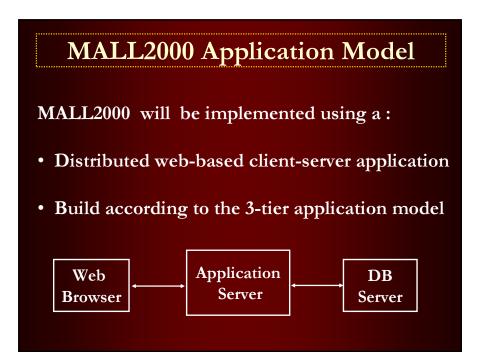
Supplier Frontdesk :

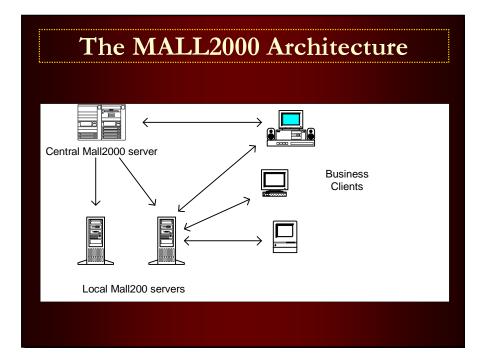
- Detailed supplier information
- Supplier's advertisements (e.g. banners)
- Special offers
- Product & service catalogue

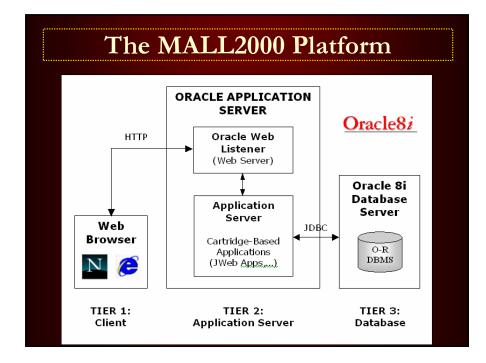
Business-to-Business Search

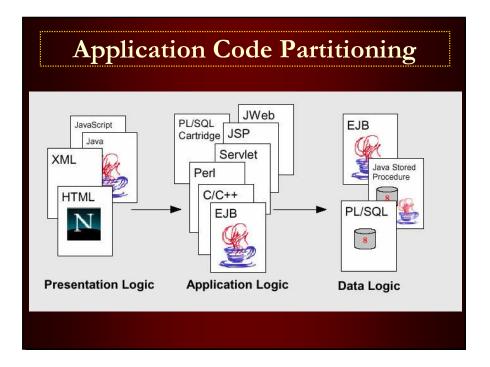


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Back	Web Development Softw	ware			
Mall2000	HomeSite An HTML tool with hig intuitive interface, and o	gh-end language support, an one-step deployment.	8.30 ME	s 💿 🕻	\$ 84.95
	Released 1999-11-01	OS : win95/98	Order N	owl	









Implementation Strategy

- *1. JWeb cartridge-based* applications for the bulk of the application logic.
- 2. JServer Java stored procedures for intensive database operations.
- 3. User interface presentation logic on the thin-client using HTML+CSS, JavaScript, XML, DOM, etc.



Advantages and Benefits

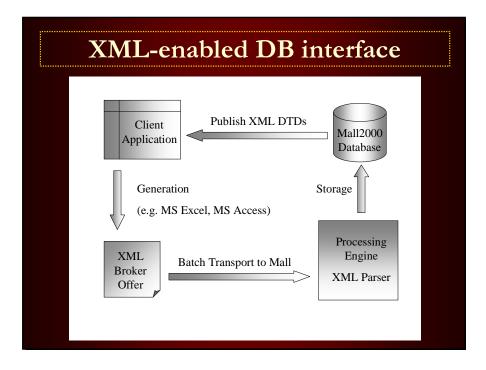
- 1. Centralized configuration and management simplifies maintenance and redeployment
- 2. OAS provides load balancing, fault tolerance, scalability, monitoring, logging, sessions, etc.
- 3. JServer provides for better performance, higher productivity and increased scalability



Accessing Oracle DB from Java

- The JDBC API
 - needed for dynamic SQL operations
- The SQLJ API
 ideal for static SQL operations
- The pl2java utility
 - provides interface to PL/SQL applications

Oracle8*i*



XML encoded offer

<BrokerOffer>

<Cherries>

- <weight unit="kg">12000</weight>
- <availableFrom>1999/10/18</availableFrom>
- <fresh yes=""/>
- <cherryColor item="red"/>
- </Cherries>

</BrokerOffer>

XML support in Oracle8i

- Oracle XML Parser
 - SAX and DOM APIs supported
- XML Support in iFS
 - support for defining, parsing, and rendering of XML based file types
- XML-enabled "Section Searching" in Context



