

Next Gen Tech

From

Quick  pert Infotech

Topics

★ **Data Ware Housing & Business Intelligence**

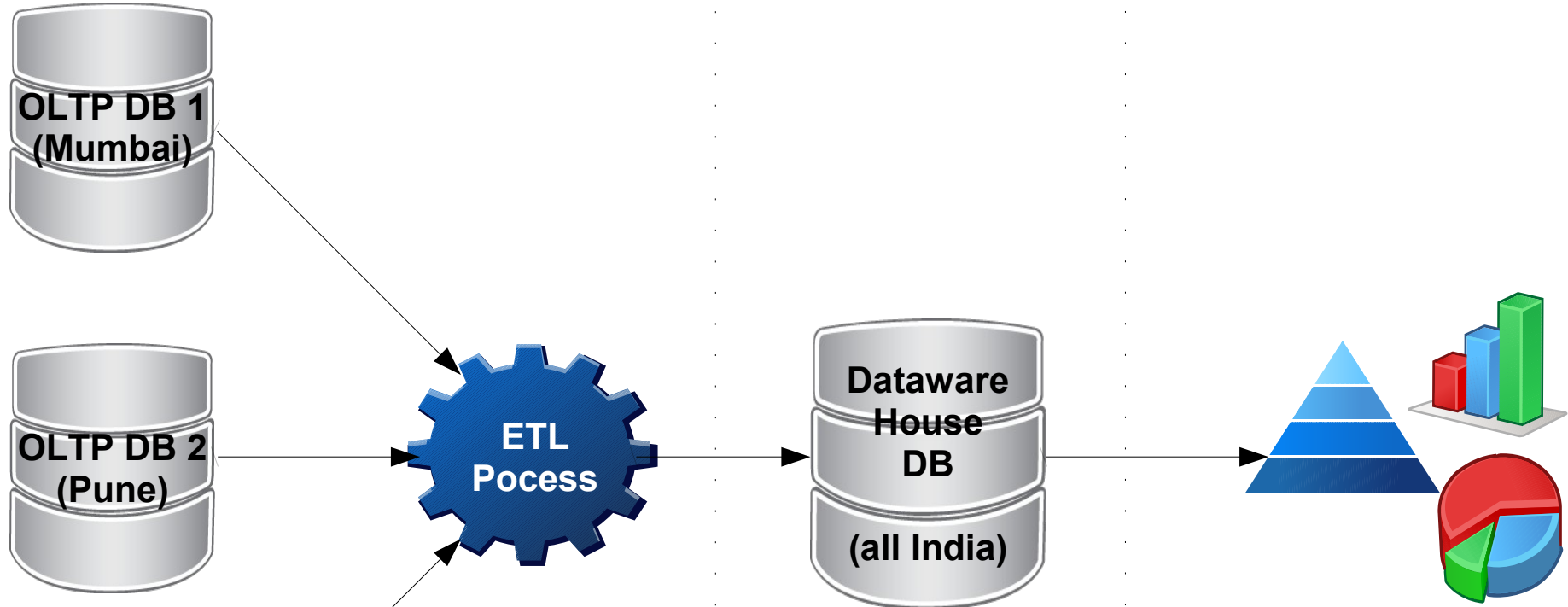
- **Ad-hoc and batch reporting**
- **STAR & SNOWFLAKE Schemas**
- **Dashboards**

★ **Enterprise Applications**

- **3 – Tier, 4 – Tier, 5-Tier, n-Tier Applications**
- **SOA – Service Oriented Architecuture**
- **Cloud Computing**
- **Application Layers and Technologies**
- **Technology Evolution**

Data Ware Housing & Business Intelligence

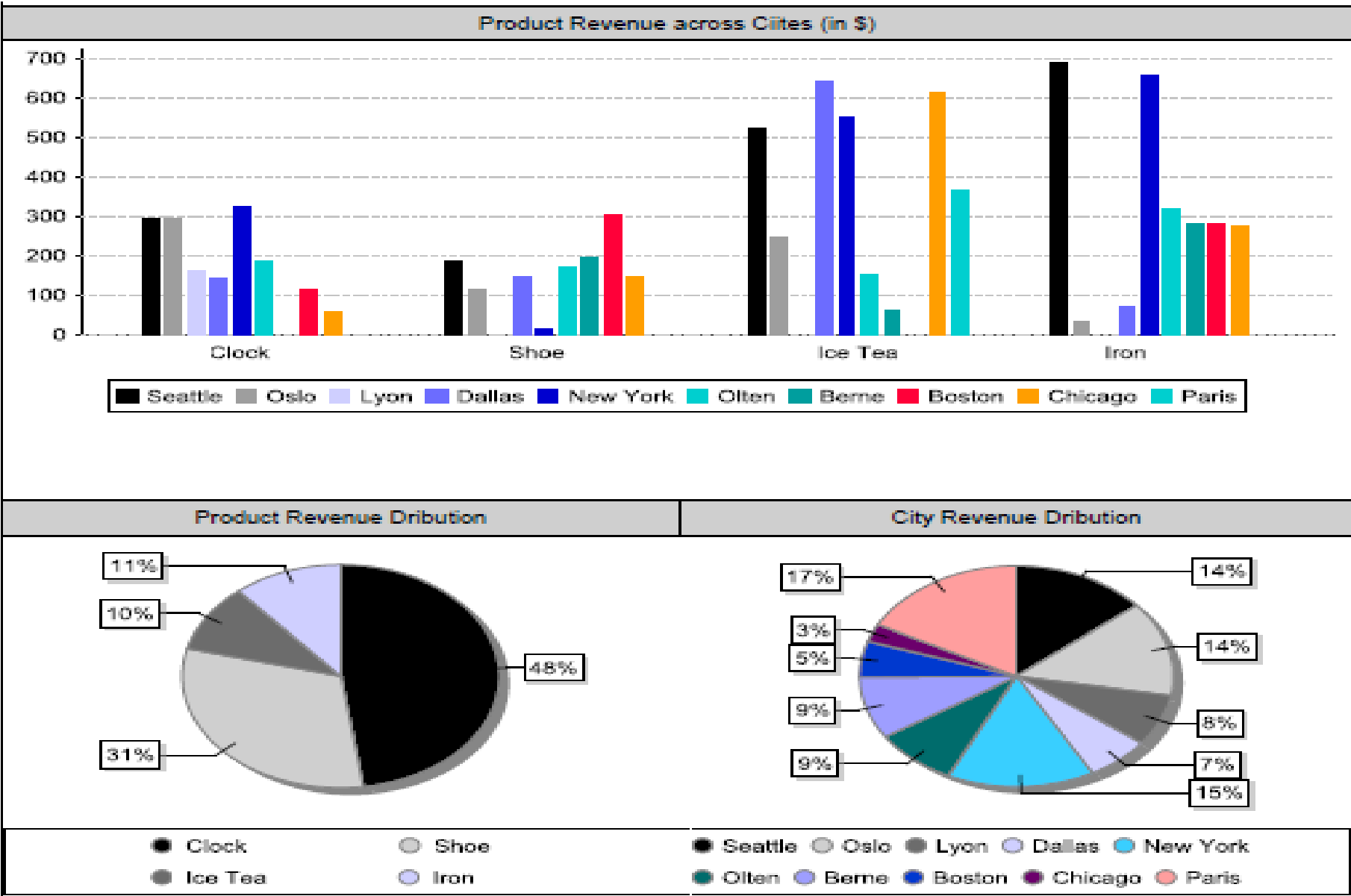
Data Ware Housing and Business Intelligence



Data Ware Housing

Business Intelligence

BI - Reporting & Dashboard Example



Usage

- ★ **Used for Enterprise Reporting and Planning**
- ★ **To extract meaningful insights from their database**
- ★ **Current Trends – Static reporting, Ad-hoc reporting, Batch reporting, Mobile BI, OLAP etc**
- ★ **BI Tools**
 - Open Source Community (FREE) version - Jasper, Pentaho, BIRT, etc
 - Others (Paid) – Microstrategy, Business Objects etc
- ★ **ETL Tools**
 - Open Source Community version - Jasper, Pentaho, Talend etc
 - Others (Paid) – Datastage, Informatica etc

Enterprise Applications

3 – Tier Architecture

Presentation Layer
(Front-end)



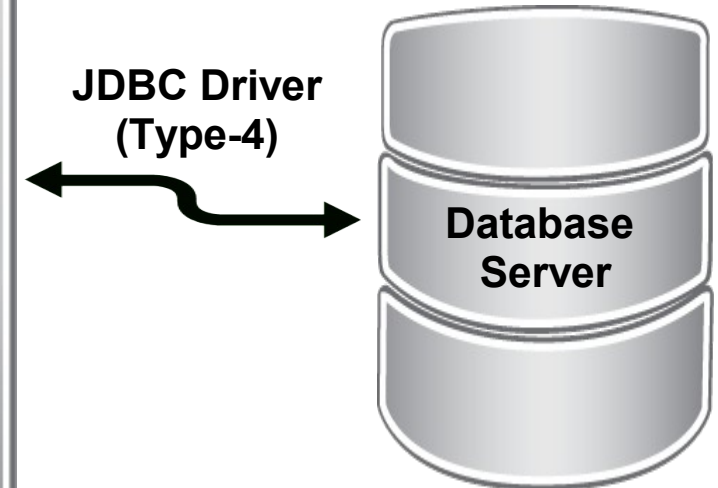
Technologies
HTML
JSP
JSF
XML etc

Web and Business Layer
(Application Implementation)



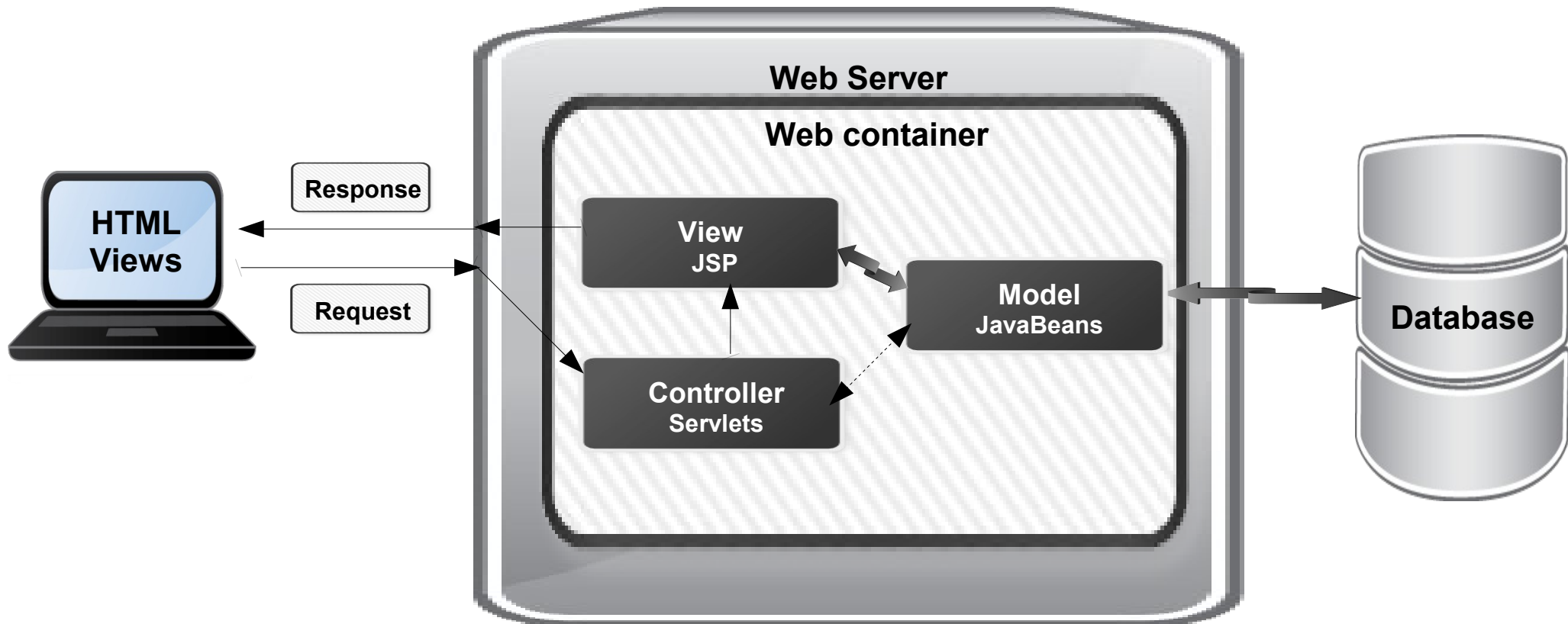
Technologies
Servlets
JSP/JSF
EJB/Spring
Hibernate/iBatis etc

Database Layer
(Storage)

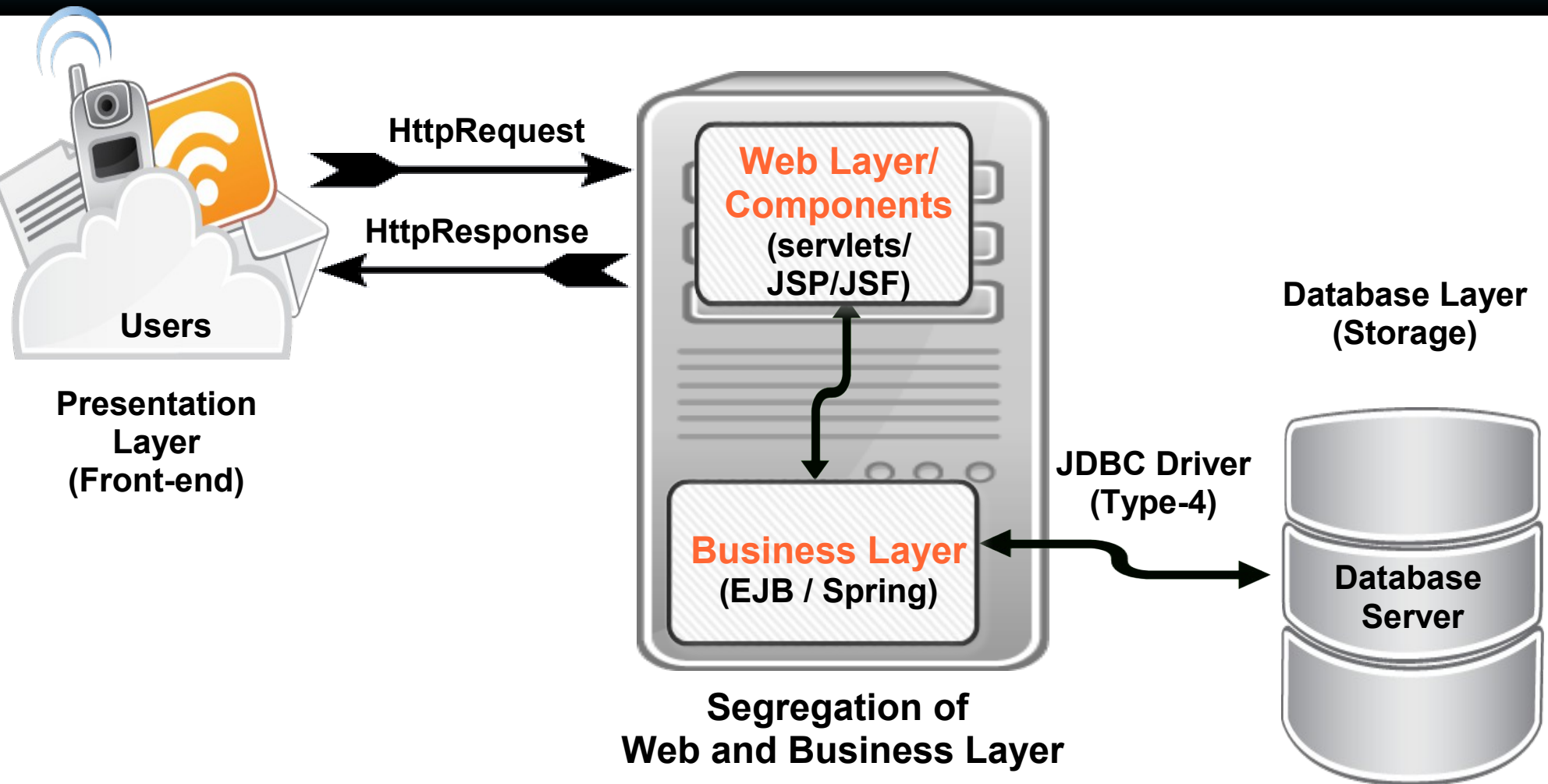


Technologies
MySQL
Oracle
SQL Server
XML, text/CSV etc

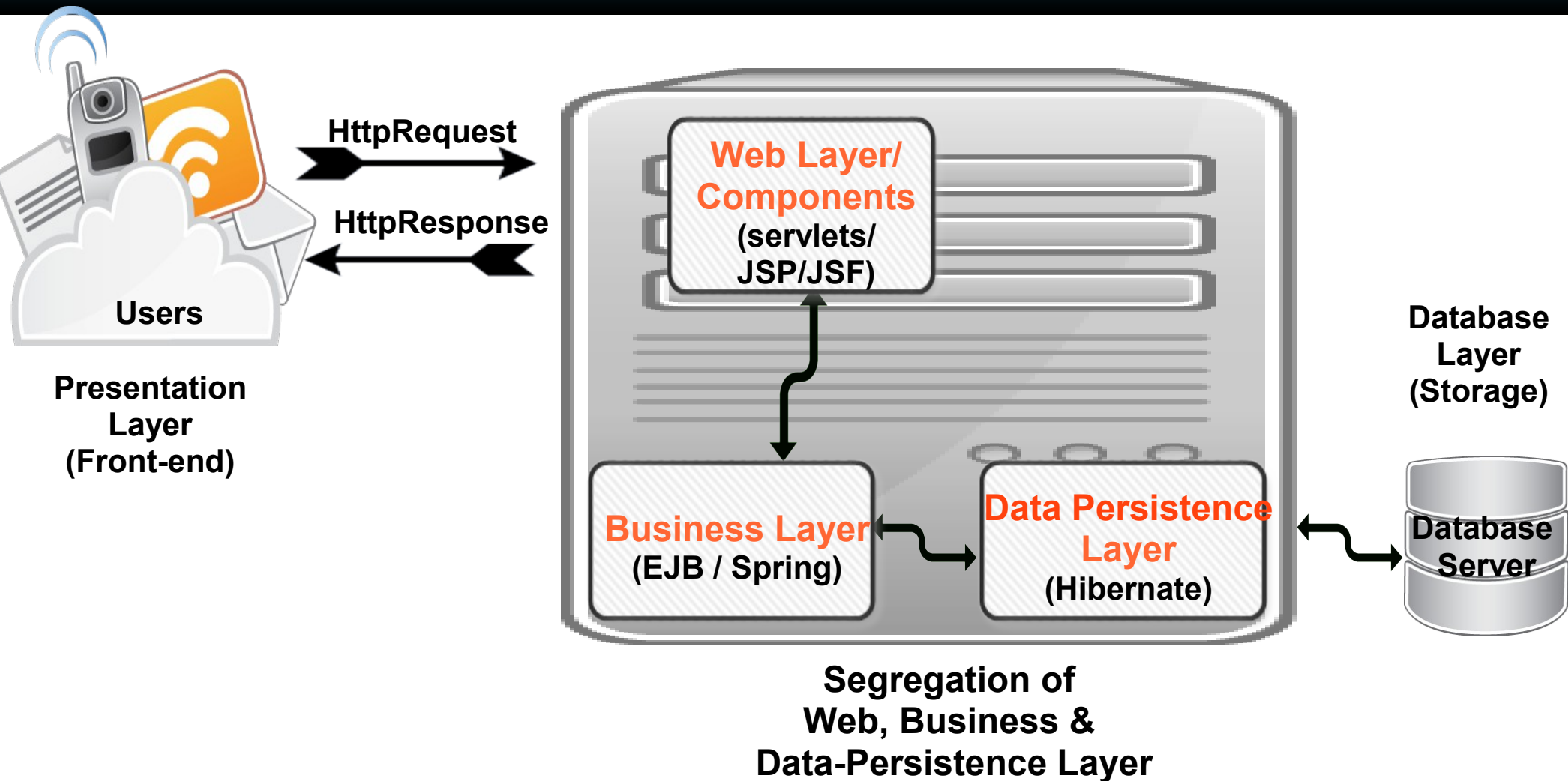
MVC Architectures in JSP/Servlets



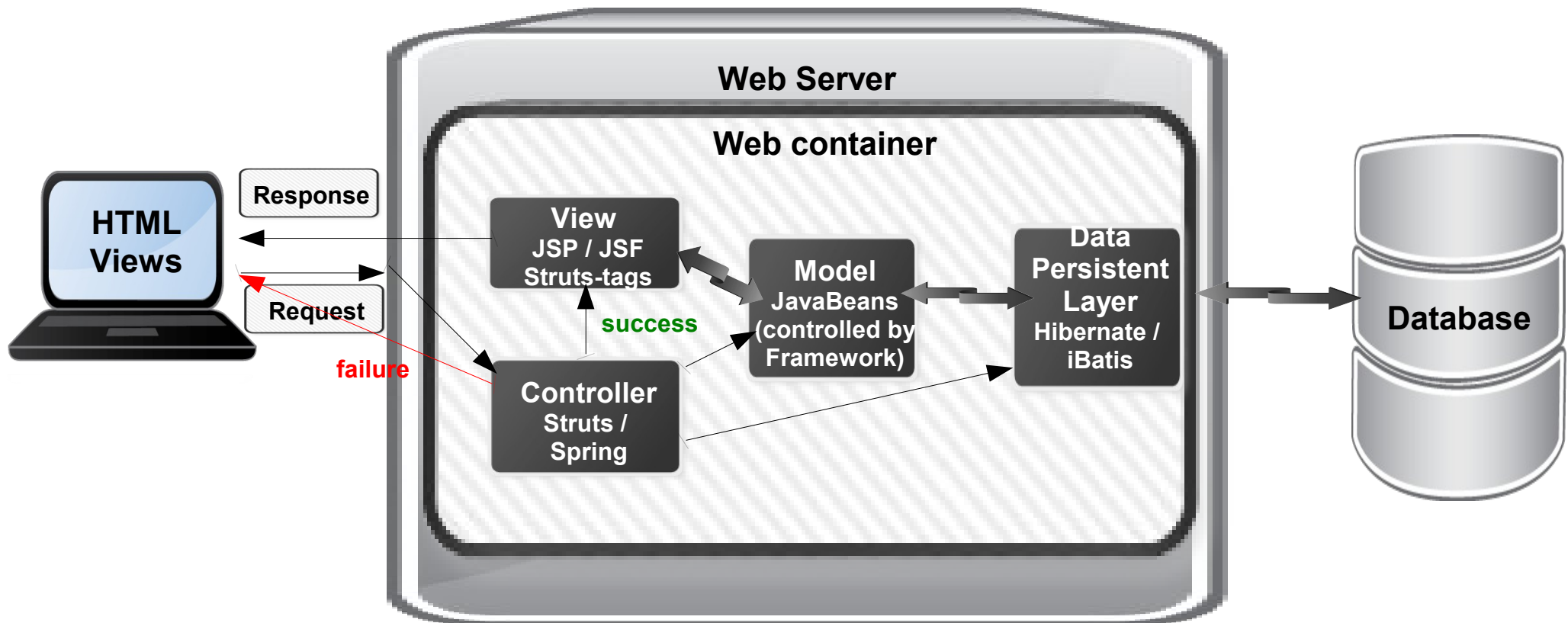
4 – Tier Architecture (with Frameworks)



5 – Tier Architecture (with Frameworks)

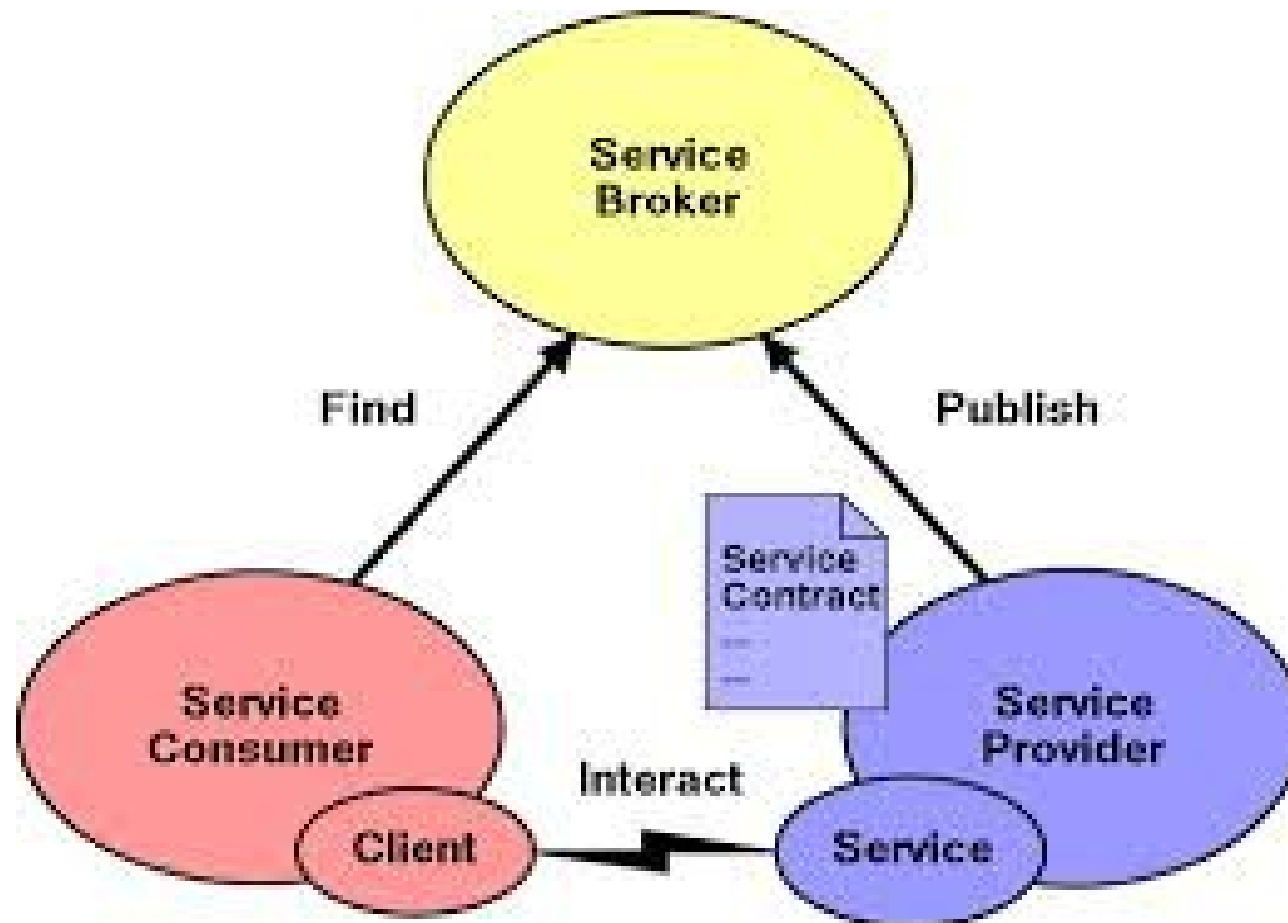


MVC Architectures in Frameworks

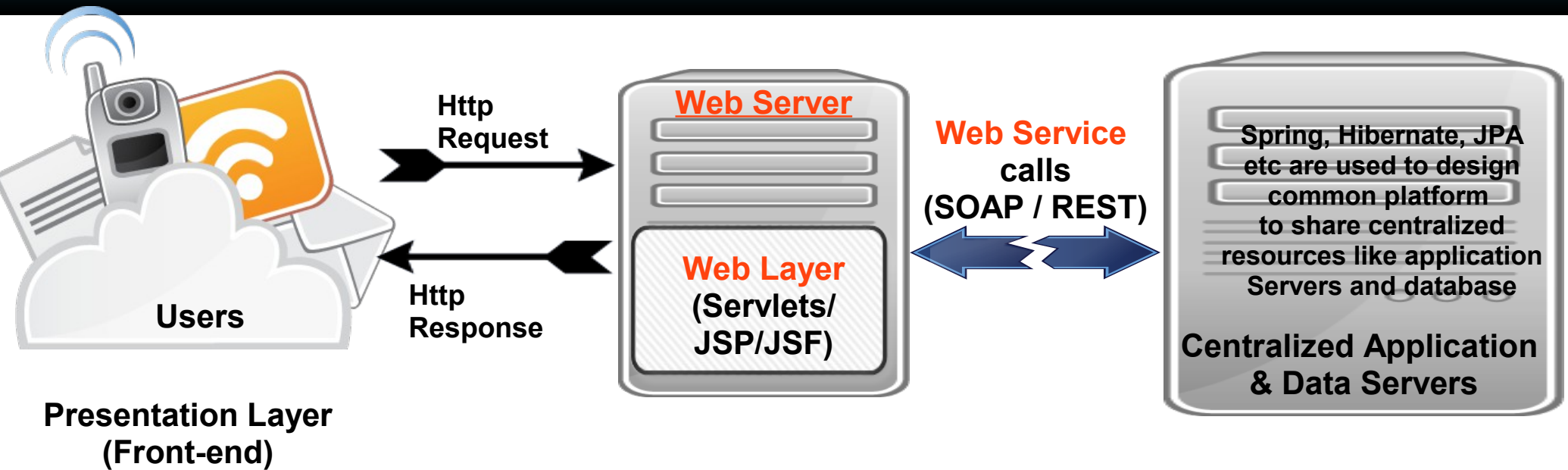


SOA (Service Oriented Architecture)

conti...



Cloud Computing (Web Service Calls)

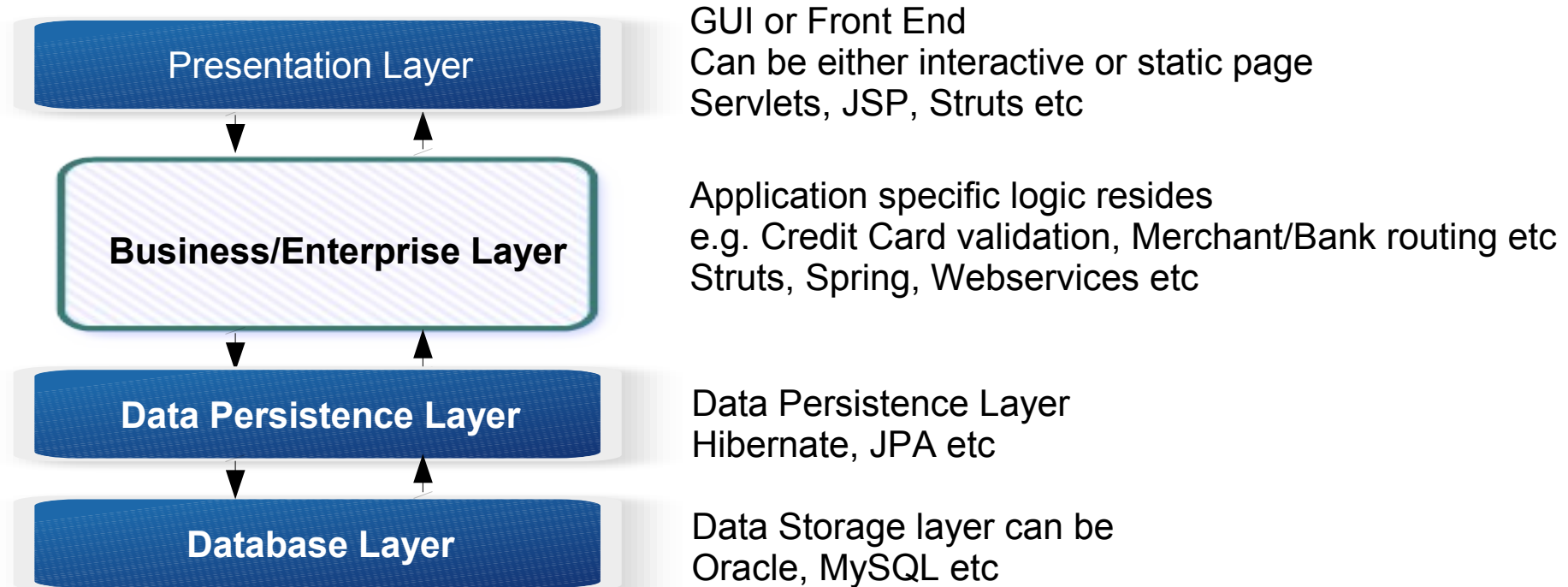


★ Benefits

- SAAS – Software as a service. Common platform to host all applications
- Web-service APIs to
- Reduction in hardware cost
- No need for additional cost
- Optimization of cpu resources

SOAP - Simple Object Access Protocol
REST - Representational State Transfer

Application Layers & Technologies



Technology Evolution

	Servlet 2.2 JSP 1.1	Servlet 2.3 JSP 1.2 JSTL 1.0	Servlet 2.4 JSP 2.0 JSTL 1.1 JSF 1.1	Servlet 2.5 JSP 2.1 JSTL 1.2 JSF 1.2	Servlet 3.0 JSP 2.2 JSTL 1.2 JSF 2.0 EL 2.2	Servlet 3.1 JSP 2.3 JSTL 1.2 JSF 2.2 EL 3.0
Mon, Year	Dec, 1999, J2EE1.2	Sep, 2001, J2EE 1.3	Nov, 2003, J2EE 1.4	May, 2006, JAVA EE 5	Dec, 2009, JAVA EE 6	Jun, 2013, JAVA EE 7
J2EE						
JSR #		JSR 53	JSR 152	JSR 245	JSR 245 – R1	JSR 245 – R2
Features		Enhanced -Internationalization - Localization - Tag Library - Security-Page Authorizing - Spec finalization Added - WebDAV - WAPsupport - Application Events	Enhanced - Tag Library - Security - Localization - Page Authoring Added Support to to Frameworks like Struts, JSF, web services etc	Enhanced - accessing bean methods - bean property resolver - closer correlation between JSP and JSF	Bug Fix of prior release Added - Take advantage of Servlet 3.0 Annotations support - Introduction to EL to support seamless integration between JSP, EL and JSF	Bug Fix of prior release Enhanced - EL to support advanced JSF features - Seamless integration between JSP, EL and JSF

*JSR → Java Spec Request

*You will study from Dec 2009 onwards and flavor of earlier versions

Thank You

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