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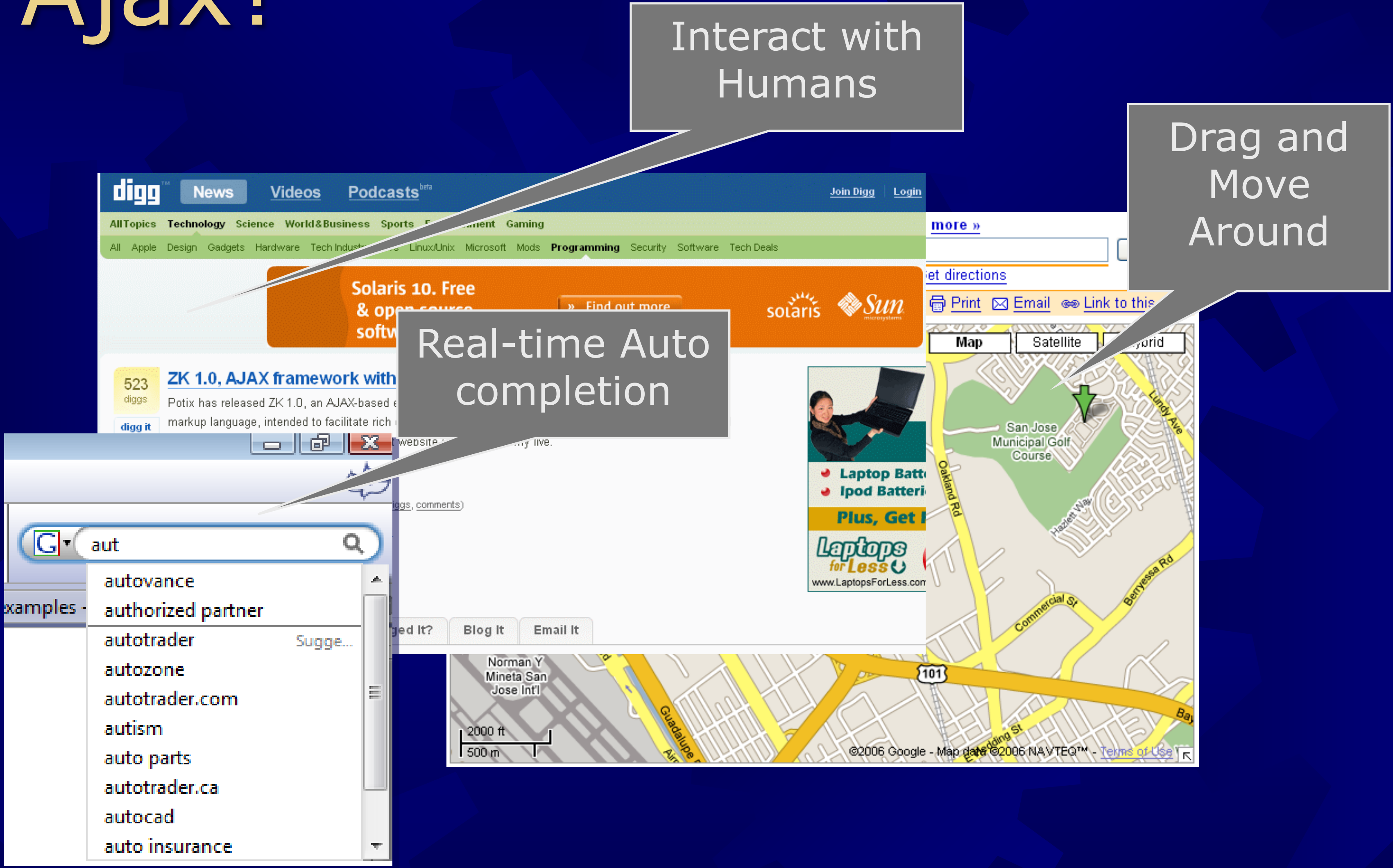
ZK

Open Source Ajax + Mobile

Potix Corporation
www.zkoss.org

Ajax?



Interact with Humans

Real-time Auto completion

Drag and Move Around

How is it?

#1 Ajax on SourceForge.net

(Top10 OSS host 180,000 projects, including JBoss, eMule, BitTorrent…)

750,000 Downloads

193 Countries

SOURCEFORGE.NET
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COMMUNITY CHOICE AWARDS

RED HERRING
100
FINALIST
ASIA

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eWEEK
Excellence Awards
8TH ANNUAL

SOURCEFORGE.NET® 2007
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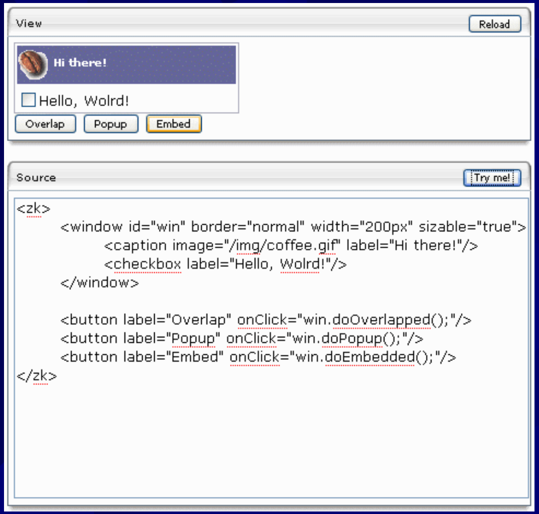
ZK Advantages

- Simple
- Open
- Server-Centric

Simply High Productivity

ZK

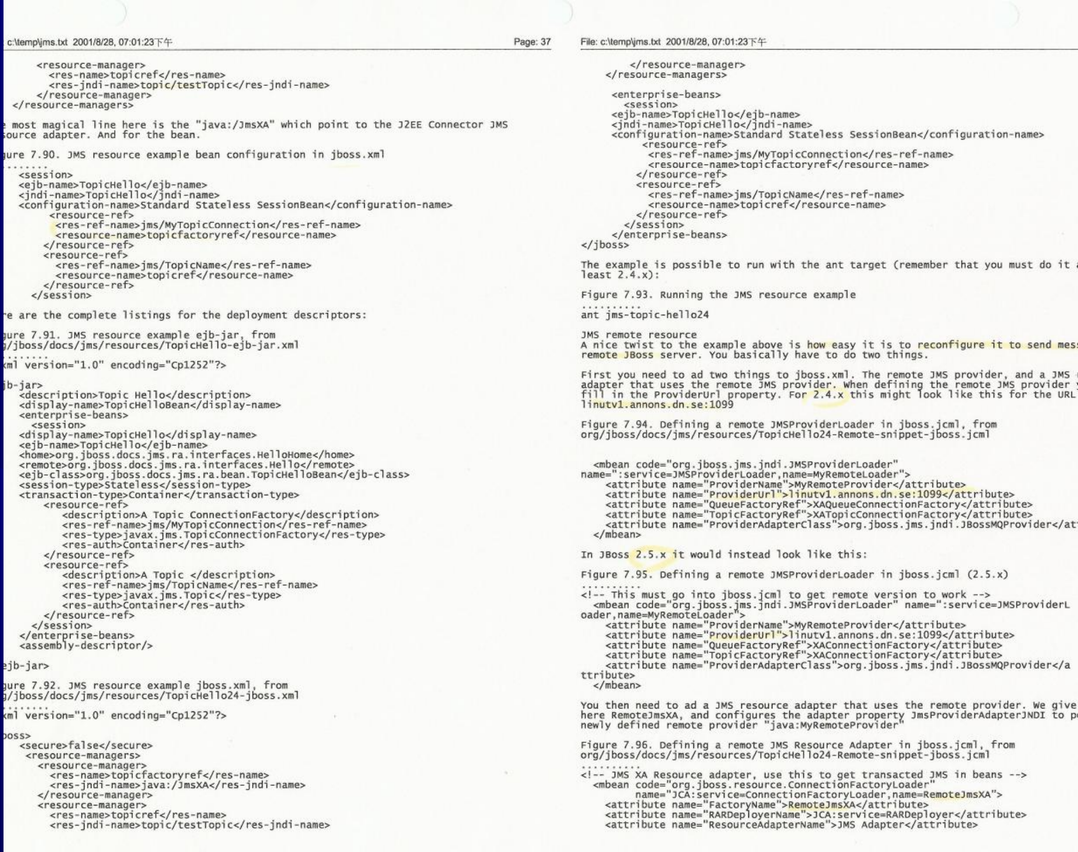


```
<zk>
        <window id="win" border="normal" width="200px" sizable="true">
                <caption image="/img/coffee.gif" label="Hi there!"/>
                <checkbox label="Hello, Wolrd!"/>
        </window>

        <button label="Overlap" onClick="win.doOverlapped();"/>
        <button label="Popup" onClick="win.doPopup();"/>
        <button label="Embed" onClick="win.doEmbedded();"/>
</zk>
```

vs.

Other Ajax



c:\temp\jms.txt 2001/8/28, 07:01:23下午 Page: 37

```
    <resource-manager>
      <res-name>topicref</res-name>
      <res-jndi-name>topic/testTopic</res-jndi-name>
    </resource-manager>
 </resource-managers>
```

e most magical line here is the "java:/JmsXA" which point to the J2EE Connector JMS source adapter. And for the bean.

gure 7.90. JMS resource example bean configuration in jboss.xml

```
.......
  <session>
  <ejb-name>TopicHello</ejb-name>
  <jndi-name>TopicHello</jndi-name>
  <configuration-name>Standard Stateless SessionBean</configuration-name>
       <resource-ref>
        <res-ref-name>jms/MyTopicConnection</res-ref-name>
        <resource-name>topicfactoryref</resource-name>
      </resource-ref>
      <resource-ref>
        <res-ref-name>jms/TopicName</res-ref-name>
        <resource-name>topicref</resource-name>
      </resource-ref>
    </session>
```

e are the complete listings for the deployment descriptors:

gure 7.91. JMS resource example ejb-jar, from
g/jboss/docs/jms/resources/TopicHello-ejb-jar.xml

```
.......
ml version="1.0" encoding="Cp1252"?>

jb-jar>
  <description>Topic Hello</description>
  <display-name>TopicHelloBean</display-name>
  <enterprise-beans>
    <session>
  <display-name>TopicHello</display-name>
  <ejb-name>TopicHello</ejb-name>
  <home>org.jboss.docs.jms.ra.interfaces.HelloHome</home>
  <remote>org.jboss.docs.jms.ra.interfaces.Hello</remote>
  <ejb-class>org.jboss.docs.jms.ra.bean.TopicHelloBean</ejb-class>
  <session-type>Stateless</session-type>
  <transaction-type>Container</transaction-type>
      <resource-ref>
         <description>A Topic ConnectionFactory</description>
         <res-ref-name>jms/MyTopicConnection</res-ref-name>
         <res-type>javax.jms.TopicConnectionFactory</res-type>
         <res-auth>Container</res-auth>
      </resource-ref>
      <resource-ref>
         <description>A Topic </description>
         <res-ref-name>jms/TopicName</res-ref-name>
         <res-type>javax.jms.Topic</res-type>
         <res-auth>Container</res-auth>
      </resource-ref>
    </session>
  </enterprise-beans>
  <assembly-descriptor/>

ejb-jar>
```

gure 7.92. JMS resource example jboss.xml, from
g/jboss/docs/jms/resources/TopicHello24-jboss.xml

```
.......
ml version="1.0" encoding="Cp1252"?>

oss>
  <secure>false</secure>
   <resource-managers>
     <resource-manager>
       <res-name>topicfactoryref</res-name>
       <res-jndi-name>java:/JmsXA</res-jndi-name>
     </resource-manager>
     <resource-manager>
       <res-name>topicref</res-name>
       <res-jndi-name>topic/testTopic</res-jndi-name>
```

File: c:\temp\jms.txt 2001/8/28, 07:01:23下午

```
      </resource-manager>
    </resource-managers>

     <enterprise-beans>
       <session>
     <ejb-name>TopicHello</ejb-name>
     <jndi-name>TopicHello</jndi-name>
     <configuration-name>Standard Stateless SessionBean</configuration-name>
          <resource-ref>
           <res-ref-name>jms/MyTopicConnection</res-ref-name>
           <resource-name>topicfactoryref</resource-name>
         </resource-ref>
         <resource-ref>
           <res-ref-name>jms/TopicName</res-ref-name>
           <resource-name>topicref</resource-name>
         </resource-ref>
       </session>
     </enterprise-beans>
</jboss>
```

The example is possible to run with the ant target (remember that you must do it a least 2.4.x):

Figure 7.93. Running the JMS resource example

```
..........
ant jms-topic-hello24
```

JMS remote resource
A nice twist to the example above is how easy it is to reconfigure it to send mes remote JBoss server. You basically have to do two things.

First you need to ad two things to jboss.xml. The remote JMS provider, and a JMS adapter that uses the remote JMS provider. When defining the remote JMS provider fill in the ProviderUrl property. For 2.4.x this might look like this for the URL linutv1.annons.dn.se:1099

Figure 7.94. Defining a remote JMSProviderLoader in jboss.jcml, from
org/jboss/docs/jms/resources/TopicHello24-Remote-snippet-jboss.jcml

```
  <mbean code="org.jboss.jms.jndi.JMSProviderLoader"
name=":service=JMSProviderLoader,name=MyRemoteLoader">
    <attribute name="ProviderName">MyRemoteProvider</attribute>
    <attribute name="ProviderUrl">linutv1.annons.dn.se:1099</attribute>
    <attribute name="QueueFactoryRef">XAQueueConnectionFactory</attribute>
    <attribute name="TopicFactoryRef">XATopicConnectionFactory</attribute>
    <attribute name="ProviderAdapterClass">org.jboss.jms.jndi.JBossMQProvider</at
  </mbean>
```

In JBoss 2.5.x it would instead look like this:

Figure 7.95. Defining a remote JMSProviderLoader in jboss.jcml (2.5.x)

```
..........
<!-- This must go into jboss.jcml to get remote version to work -->
  <mbean code="org.jboss.jms.jndi.JMSProviderLoader" name=":service=JMSProviderL
oader,name=MyRemoteLoader">
    <attribute name="ProviderName">MyRemoteProvider</attribute>
    <attribute name="ProviderUrl">linutv1.annons.dn.se:1099</attribute>
    <attribute name="QueueFactoryRef">XAConnectionFactory</attribute>
    <attribute name="TopicFactoryRef">XAConnectionFactory</attribute>
    <attribute name="ProviderAdapterClass">org.jboss.jms.jndi.JBossMQProvider</a
ttribute>
  </mbean>
```

You then need to ad a JMS resource adapter that uses the remote provider. We give here RemoteJmsXA, and configures the adapter property JmsProviderAdapterJNDI to p newly defined remote provider "java:MyRemoteProvider"

Figure 7.96. Defining a remote JMS Resource Adapter in jboss.jcml, from
org/jboss/docs/jms/resources/TopicHello24-Remote-snippet-jboss.jcml

```
..........
<!-- JMS XA Resource adapter, use this to get transacted JMS in beans -->
  <mbean code="org.jboss.resource.ConnectionFactoryLoader"
         name="JCA:service=ConnectionFactoryLoader,name=RemoteJmsXA">
    <attribute name="FactoryName">RemoteJmsXA</attribute>
    <attribute name="RARDeployerName">JCA:service=RARDeployer</attribute>
    <attribute name="ResourceAdapterName">JMS Adapter</attribute>
```

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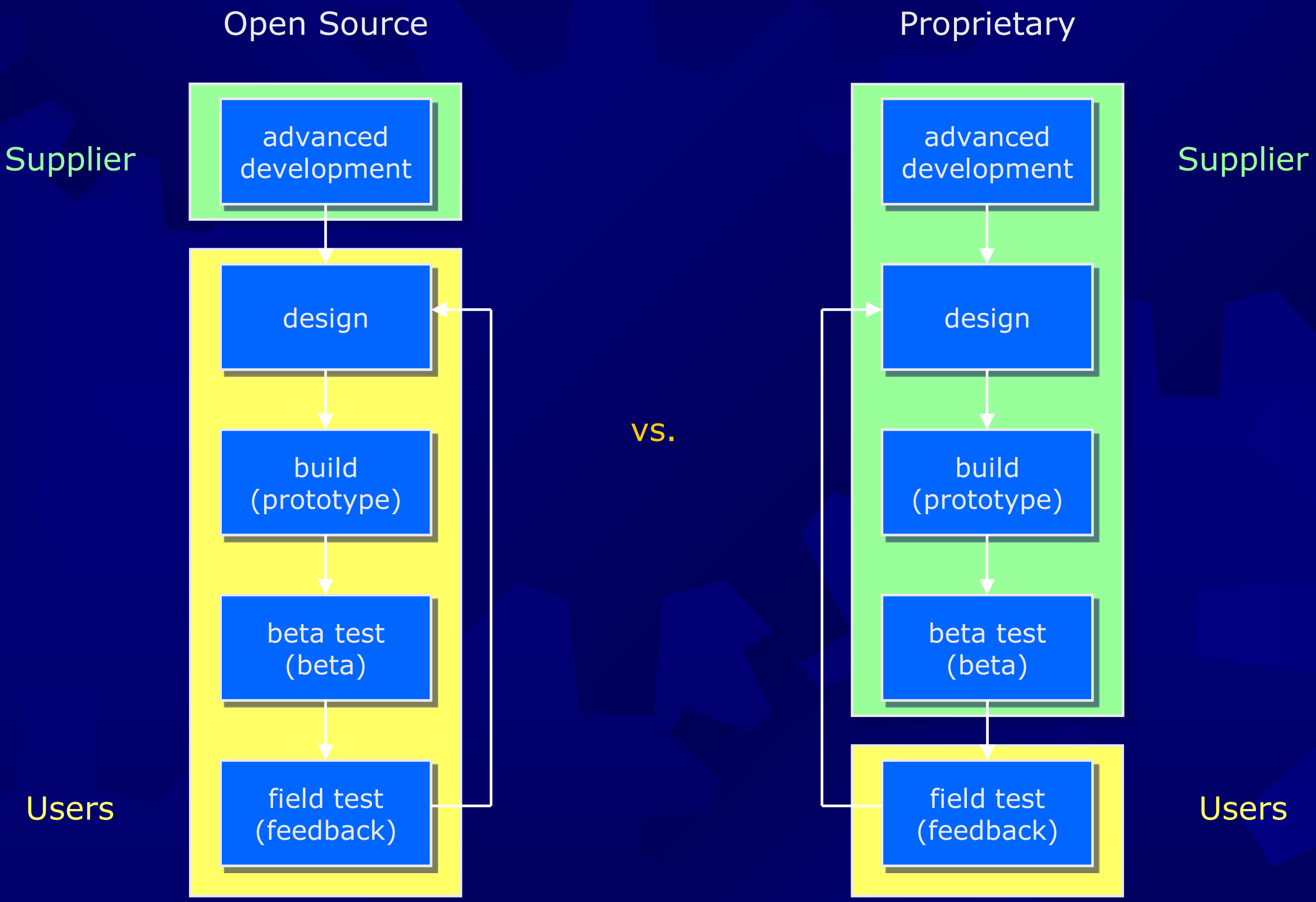
Open: User-Driven Innovation



[Source: HBR APR'02]

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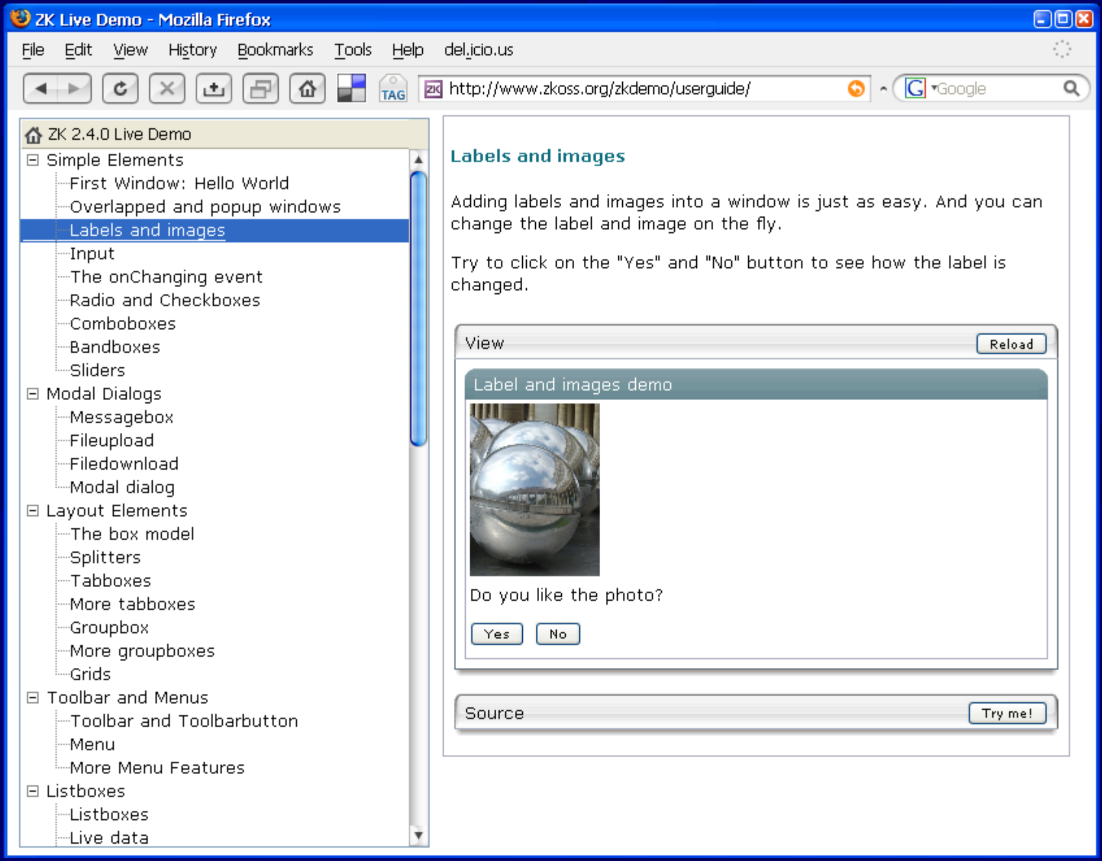
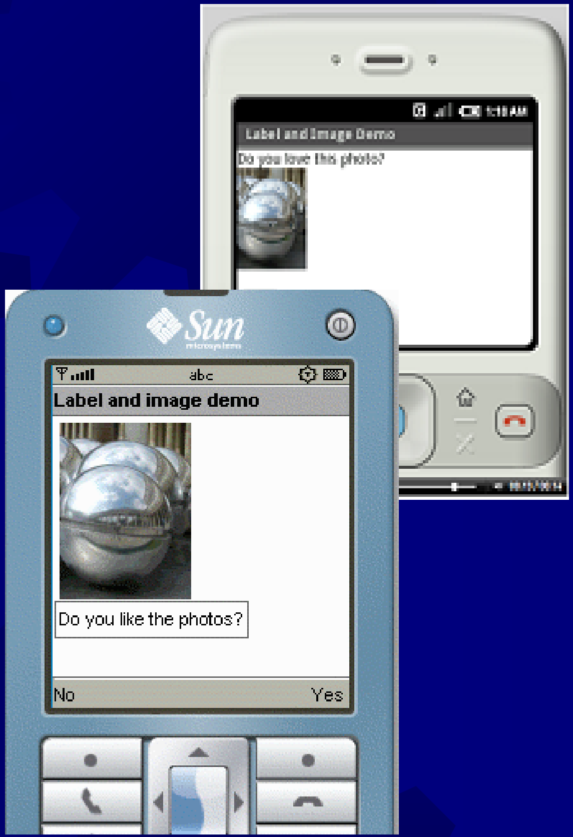
Simply Ajax and Mobile



Labels and images

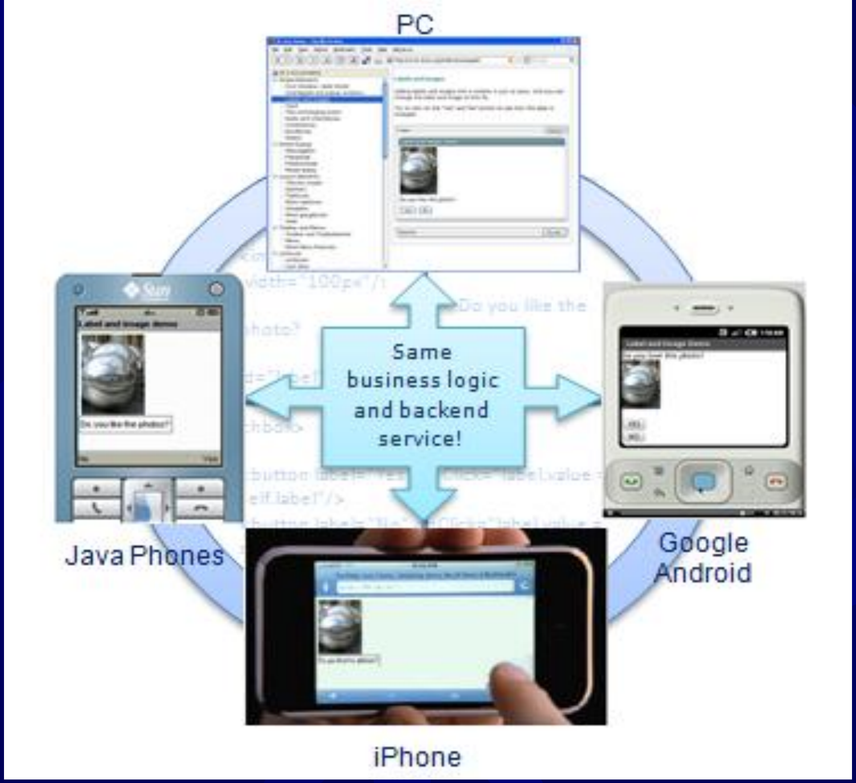
Adding labels and images into a window is just as easy. And you can change the label and image on the fly.

Try to click on the "Yes" and "No" button to see how the label is changed.



ZK Mobile Platform

- Extend the Richness of Web Application on Mobile Platforms.
  - Google Android
  - Java Phone
  - iPhone



Rich User Experience of Web Application on Mobile Platform

- Traditional Way
  - HTML Tags
  - Those don’t support browser?
- ZK Mobile’s Way
  - Turns your Web application into a Mobile Application

No Prerequisite of Mobile Technology is Required

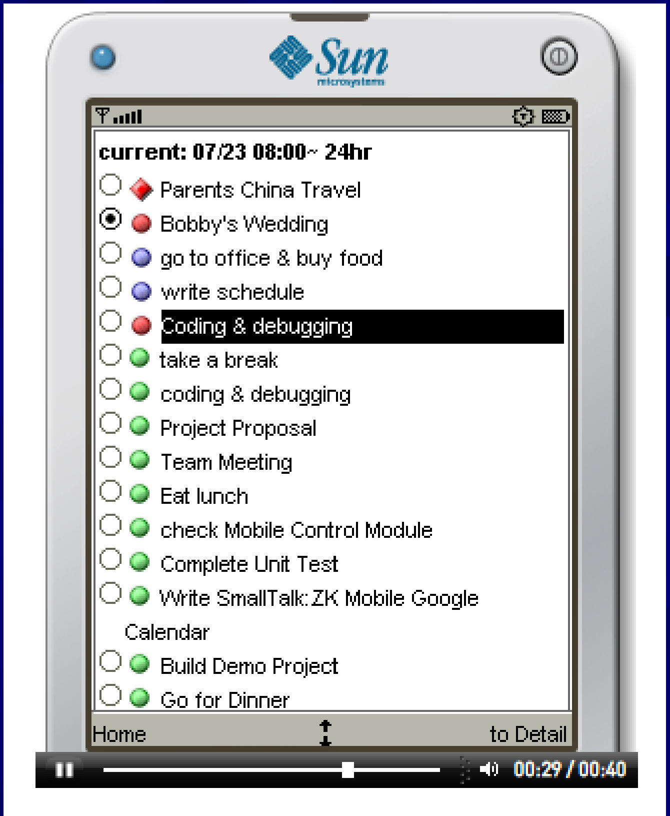
Simple Programming Model

- No Client Server Communication

Mobile Application

Web Server

Showcase of ZK Mobile on Java Phone



current: 07/23 08:00~ 24hr

- ○ Parents China Travel
- ● Bobby's Wedding
- ○ go to office & buy food
- ○ write schedule
- ○ Coding & debugging
- ○ take a break
- ○ coding & debugging
- ○ Project Proposal
- ○ Team Meeting
- ○ Eat lunch
- ○ check Mobile Control Module
- ○ Complete Unit Test
- ○ Write SmallTalk:ZK Mobile Google Calendar
- ○ Build Demo Project
- ○ Go for Dinner

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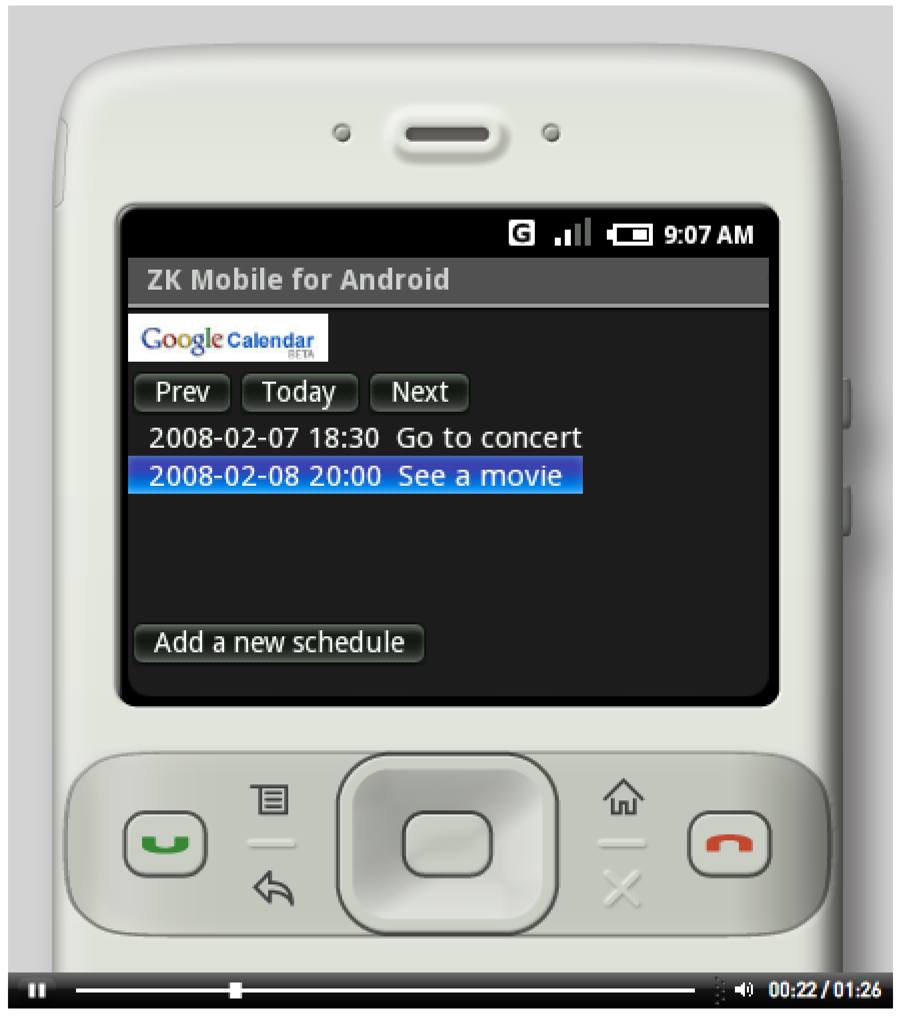
Show Case of ZK Mobile for Android



ZK Mobile for Android

2008-02-07 18:30 Go to concert

2008-02-08 20:00 See a movie

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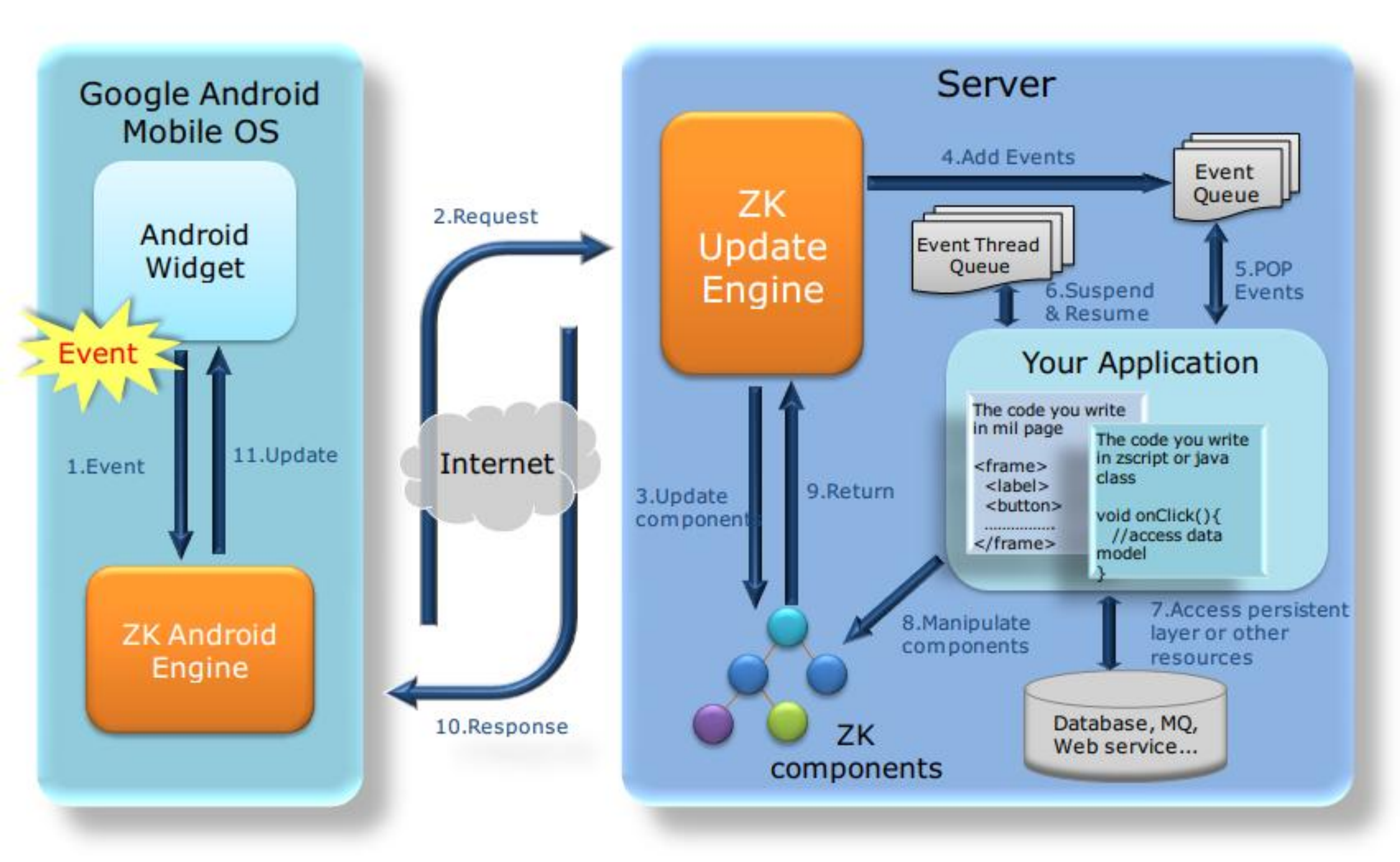
Behind-the-Scene Technology



The code you write in mil page

```
<frame>
  <label>
  <button>
  ................
</frame>
```

The code you write in zscript or java class

```
void onClick(){
  //access data
model
}
```

Thank You!

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