AJCON, Applet to JSF Convertor

Group Teaplet
Sponsored by Siemens EC

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Outline

• Group Teaplet
• Problem Definition
• Motivation & Solution
• System Components & Features
• Current State
• Conclusion
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Problem Definition

• Many Applet projects
• Disadvantages of Applet
  ➢ Old technology
  ➢ Plug-In and JRE Requirements (browsers)
  ➢ Startup Performance
  ➢ Client Security Settings Interference
  ➢ Proxy Server Interference
  ...

Problem Definition

New Technology...
Problem Definition

Web Search Interest: struts 2, spring mvc, jboss seam, jsf
Worldwide, 2004 - present
Categories: Computers & Electronics, Industries, Internet, Society

Totals
- struts 2: 7
- spring mvc: 6
- jboss seam: 3
- jsf: 65

* The last value prior to the forecast is based on partial data and may change. Learn more
** Forecast values are based exclusively on the extrapolation of past values. Learn more
Problem Definition

Job Trends from Indeed.com

- Java server faces
- Java swing
- Java applet

Percentage Growth

Jan '06 | Jan '07 | Jan '08 | Jan '09 | Jan '10 | Jan '11
Problem Definition

• **Main Problem:** Much more effort required to convert Applet technology to JSF with manual approach
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Motivation & Solution

Aimed User Perspectives

• Developers
• Companies
Motivation & Solution

• Developers
  ➢ Developer tool
  ➢ Time saver (Ready-to-use JSF components)
• Companies

  - Money saver
  - Manpower saver
  - Contemporary technology use (JSF > Applet)
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System Components & Features

Start Conversion

Select Project

View Progress/Log

Use JSF Version

Select Project → Start Conversion → Use JSF Version → View Progress/Log → Select Project
System Components & Features

- UI Component
- Applet Extractor Component
- JavaML Component
- Translator Component
- Log Component
System Components & Features

• Developer tool
• Desktop Application
• Simple GUI
• Multi-project conversion simultaneously
• Convert mostly used components up to a point
  ➢ Buttons, textareas, checkboxes,...
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## Current State

<table>
<thead>
<tr>
<th>Component</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>UI Component</td>
<td>✔️</td>
</tr>
<tr>
<td>Applet Class Extractor Component</td>
<td>✔️</td>
</tr>
<tr>
<td>Applet Class Extractor Integration</td>
<td>✔️</td>
</tr>
<tr>
<td>JavaML Component</td>
<td>✔️</td>
</tr>
<tr>
<td>JavaML Integration</td>
<td>✔️</td>
</tr>
<tr>
<td>Log Component</td>
<td>✔️</td>
</tr>
<tr>
<td>Log Component Integration</td>
<td>✔️</td>
</tr>
<tr>
<td>Component</td>
<td>Status</td>
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<tr>
<td>-----------------------------------------------</td>
<td>--------</td>
</tr>
<tr>
<td>Translator Component</td>
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<tr>
<td>Translator Integration</td>
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<tr>
<td>Multi-project Conversion</td>
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<tr>
<td>Tutorial for Developers</td>
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<tr>
<td>Plug-in for Development IDE’s</td>
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<tr>
<td>Final Package</td>
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</tbody>
</table>
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Conclusion

- Problem defined, Java Applets vs Java Server Faces
- Aimed user perspectives
- System capabilities & technical features
- Current state on the project
- Conversion problem will be solved up to a point with AJCON project.
References


• [www.oracle.com](http://www.oracle.com)


• [http://www.indeed.com/worldwide](http://www.indeed.com/worldwide)

• Group Teaplet SDD
Questions
Thanks