IBM Software Group

Developing Human Services with Coaches in IBM Business Process Manager 8

--- What to do, when it does not work?

Ying Zhao (yingzhao@ca.ibm.com)
Software Engineer
9 May 2013









Agenda

- Human Service Overview
- Application Development
- Problem Determination
- Recommendations





Agenda

- Human Service Overview
 - Key Features
 - Coach and Heritage Coach
 - Coach Improvements





Key Features

- Define human machine interaction
- User interface experience
- Task flow driven
- User role authorization
- Web based (potential mobile support)
- Coach and Heritage Coach





Coach and Heritage Coach

Coach	Heritage Coach
Coach view	Not available
Web 2.0	Web 1.0
Client side	Server and Client
Boundary event	One button
Collaboration	Not available
data-view id	div node





Coach and Heritage Coach

- Coexist in one service
- Non-compatible in one user interface
- Heritage Coach development support
- Coach development support





Coach Improvements

- Simplicity, extensibility, flexibility
 - Reusability
 - Data coupling
 - Event driven
- Client side programming
 - Responsiveness (Async Ajax)
 - Performance implication
- Localization
- Mobility ready





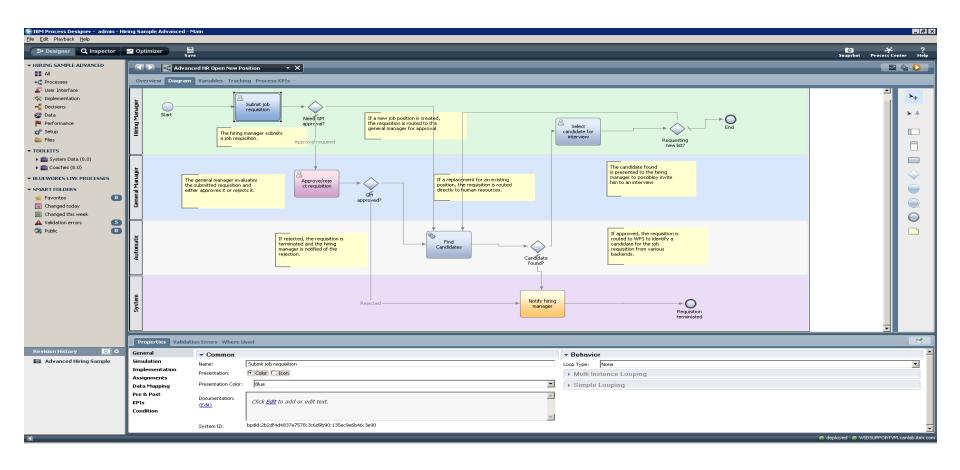
Agenda

- Application Development
 - Human Service
 - Coach





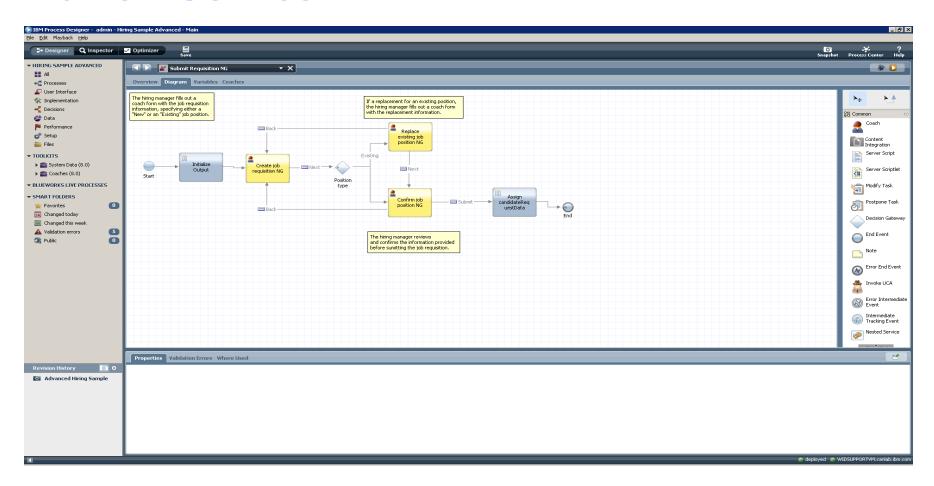
Human Service







Human Service







Coach

- Component central
- Data focus
- Event driven
- Iterative development
- Collaboration



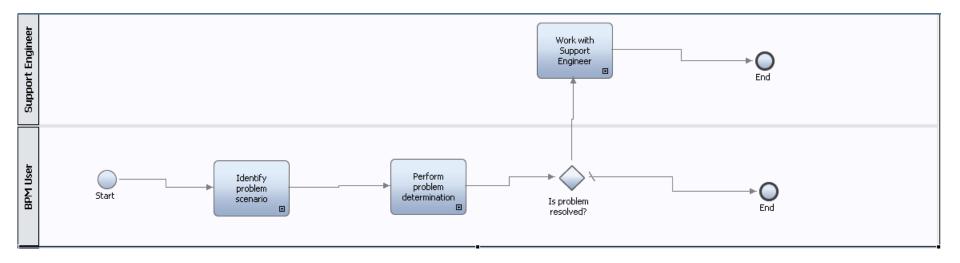


Agenda

- Problem Determination
 - Overview
 - Authoring
 - Execution
 - Performance











- Identify problem scenario
 - Can the problem be reproduced?
 - What are the symptoms of the problem?
 - When, where, and under what condition?
 - Step-by-Step description of how the problem occurs



- Perform problem determination
 - Product version
 - Is Process Designer the same version as Process Center that it connects to?
 - Fix update from IBM support site
 - Logs and trace
- Work with support engineer
 - mustGather (http://www-01.ibm.com/support/docview.wss?uid=swg21569731)
 - information from steps, identify problem scenario, perform problem determination





- log into your WAS console: https://localhost:9043/ibm/console
- Expand "Troubleshooting"
- Click "Logs and Trace"
- Click "Change log level details"
- Expand "All Components"
- scroll down and expand "com.lombardisoftware.component.*"
- Click "com.lombardisoftware.component.coachng" and choose "All messages and trace"
- Click "Ok"
- Save



Authoring

- Logs and Trace
 - ae.log
 - Enable -coachViewDevMode flag in eclipse.ini





Execution

- Additional Checklist
- Debug
- Logs and Trace





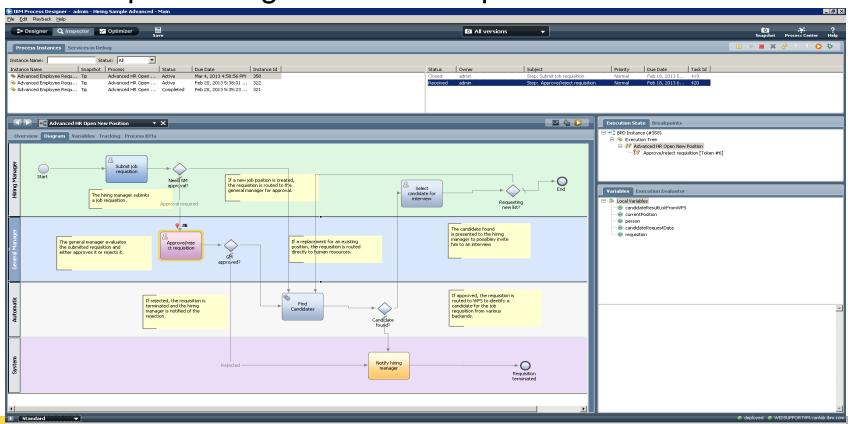
Additional Checklist

- Is the System Toolkit up to date?
- Is the problem browser specific?
- Is the browser supported? http://www-01.ibm.com/support/docview.wss?uid=swg27023005
- Any validation errors?



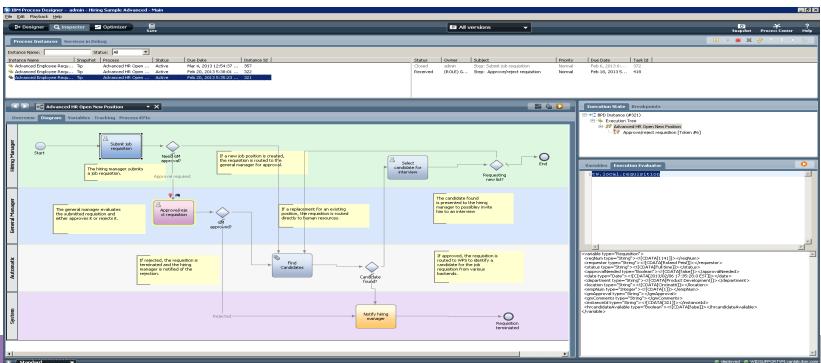


Open debug session in Inspector



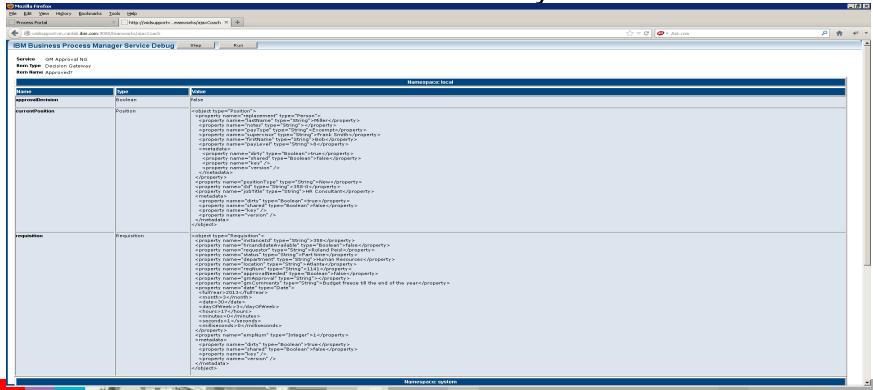


 Inspector shows that the data variable is populated (show in execution evaluator) and the process flow moves onto next step





Use "step" to debug, and "Run" to complete the service to move onto next activity





- Check browser version
- Download and install compatible Firebug or Fiddler





- Firebug features
 - Firebug a Firefox extension
 - Firebug Lite supports major browsers
 - JavaScript debugging
 - HTML inspection
 - Net traffic analysis





- Fiddler features
 - Support all browsers
 - Net traffic capture and filtering
 - Session analysis
 - Record and playback traffic





- Add debugger in Coach JavaScript code
- Coach component tracing (Slide 29)
- Coach Global API (future releases)





Logs and Trace

- Client side Logs and Trace
- Generated HTML, when problem occurs





Performance

- Additional Check list (Slide 19)
- Logs and Trace
- Code Gen Performance





Logs and Trace

- BPM 8.0.1
- Log into admin console: https://localhost:9043/ibm/console/logon.jsp
- Expand Resources->Resouce Environment->Resouce Environment Providers
- Click Mashups_ConfigService
- Click Custom Properties
- Click the filter button, and search by name for 'isDebug'
- Once you find it, click it.
- Toggle it's value from 'false' to 'true', and visa-versa.
- Apply and save the configuration.
- restart server and clear browser cache





Code Gen Performance

- log into your WAS console: https://localhost:9043/ibm/console
- Expand "Troubleshooting"
- Click "Logs and Trace"
- Click "Change log level details"
- Expand "All Components"
- scroll down and expand "com.lombardisoftware.component.*"
- expand "com.lombardisoftware.component.coachng"
- expand "com.lombardisoftware.component.coachng.worker"
- Click
 "com.lombardisoftware.component.coachng.worker.CoachN
 GWorker", and choose "All messages and trace"
- Click "Ok"
- Save





Recommendations

- Iterative development
- Promote asset reuse
- Follow Coach development good practices
- Perform unit testing
- Leverage client side debugging tools
- Provide usage example





References

- IBM® Business Process Manager V8.0.1 Information Center: http://pic.dhe.ibm.com/infocenter/dmndhelp/v8r0m1/index.jsp?topic= %2Fcom.ibm.wbpm.main.doc%2Fic-homepage-bpm.html
- Firebug: https://getfirebug.com/
- Fiddler: http://fiddler2.com/
- IBM® DeveloperWorks Business Process Manager: http://www.ibm.com/developerworks/bpm/
- IBM® Business Process Management Products Support Blog: https://www.ibm.com/developerworks/community/blogs/WebSphere_Process_Server/?lang=en
- IBM® Business Process Manager Support: https://www-947.ibm.com/support/entry/portal/overview/software/websphere/ibm_b usiness_process_manager_advanced





Special Thanks...

Grant Taylor (IBM Business Process Manager Development)
Paul Pacholski (IBM Websphere Technical Sales)





Additional WebSphere Product Resources

- Learn about upcoming WebSphere Support Technical Exchange webcasts, and access previously recorded presentations at: http://www.ibm.com/software/websphere/support/supp_tech.html
- Discover the latest trends in WebSphere Technology and implementation, participate in technically-focused briefings, webcasts and podcasts at: http://www.ibm.com/developerworks/websphere/community/
- Join the Global WebSphere Community: http://www.websphereusergroup.org
- Access key product show-me demos and tutorials by visiting IBM® Education Assistant: http://www.ibm.com/software/info/education/assistant
- View a webcast replay with step-by-step instructions for using the Service Request (SR) tool for submitting problems electronically: http://www.ibm.com/software/websphere/support/d2w.html
- Sign up to receive weekly technical My Notifications emails: http://www.ibm.com/software/support/einfo.html





Connect with us!

1. Get notified on upcoming webcasts

Send an e-mail to wsehelp@us.ibm.com with subject line "wste subscribe" to get a list of mailing lists and to subscribe

2. Tell us what you want to learn

Send us suggestions for future topics or improvements about our webcasts to wsehelp@us.ibm.com

3. Be connected!

Connect with us on Facebook
Connect with us on Twitter





Questions and Answers

