Workflow for XPages Vacation Management on Activiti
Agenda

- Introduce to sample application
- Sample application component introduction
- Sample application architecture
- Guide to setup sample application
- How to run sample application
Introduction to the Sample Application

The sample application is called: Vacation Management System. It is an application to manage vacation requests. This application demos how to use CommonWorkflow control to connect to Activiti workflow engine.
Sample Application Component Introduction

1. Activiti server plugins on Domino
   - **com.ibm.xsp.xflow.activiti-rest**: Activiti workflow engine Rest server, CommonWorkflow control connect to this Rest server to put/fetch workflow engine data
   - **com.ibm.activiti**: Activiti workflow engine Explorer server, it can be used to manage Activiti workflow engine

2. H2 database: a memory RDBMS to store Activiti workflow engine data

3. Plugin com.ibm.xsp.xflow.activiti: adaptor for connecting to Activiti Rest server
Sample Application Architecture

Domino server

XPages Server

com.ibm.xsp.xflow.activiti: Activiti Adaptor

Rest API

XPage

OSGi Runtime

XPD Web Container

com.ibm.xsp.xflow.activiti-rest: Activiti Rest server

com.ibm.activiti: Activiti Explorer server

H2 RDBMS
Guide to Setup Vacation Management App

1. Install XPage Extension Library first;
2. Unzip the release zip file to a folder;
3. Make sure Apache Ant installed in the system, go to setup folder and run command(This will download Activiti libraries needed in our project): ant setup.activiti
4. Install the update site under folder updatesite to Domino & Designer.
5. copy folder ActivitiServerPlugins/com.ibm.xsp.xflow.activiti-rest_1.0.0.########## and ActivitiServerPlugins/com.ibm.activiti_########## to Domino\data\domino\workspace\applications\eclipse\plugins
6. Copy the Sample NSF(ActivitiVacation.nsf) to domino data folder.
7. Download h2 database from this link: http://www.h2database.com/html/download.html
8. Start h2 database
9. Start Domino server
10. Sign the design elements for the sample database(ActivitiVacation.nsf). The default user has manager authority, please change access control if needed.
11. Use Designer open sample database, open file WebContent/WEB-INF/workflow/activiti.workflow in the database and change two strings “yourFullQualifiedHostName” in the file to your full qualified host name.
12. Configure Domino server to support SSO(LTPA token support needed)
Guide to Setup Vacation Management App(2)

15. In Activiti Explorer, deploy the process you just imported.

17. If you want to create more employee, you can create them with Employee form in Notes client (see explanation of Employee field in next page).
# Employee Form

## Employee Data

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID:</td>
<td><a href="mailto:simdray@renovations.com">simdray@renovations.com</a></td>
<td>ID to identify user in workflow system</td>
</tr>
<tr>
<td>NotesID:</td>
<td>Simone Dray/Renovations</td>
<td>Corresponding Notes ID for workflow user</td>
</tr>
<tr>
<td>Full Name:</td>
<td>Simone Dray</td>
<td></td>
</tr>
<tr>
<td>Manager</td>
<td>0</td>
<td>0 if Employee</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 if Manager</td>
</tr>
<tr>
<td>Picture URL</td>
<td>/simdray.jpg</td>
<td></td>
</tr>
</tbody>
</table>

## Managers Chain

<table>
<thead>
<tr>
<th>Manager ID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>User's manager id</td>
</tr>
<tr>
<td></td>
<td>User's second line manager id and user's manager id</td>
</tr>
</tbody>
</table>

## People Managed

<table>
<thead>
<tr>
<th>Managed IDs</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>All managed people ids, separated with comma.</td>
</tr>
</tbody>
</table>

## User Preferences

<table>
<thead>
<tr>
<th>Preference</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use of River of News:</td>
<td></td>
<td>0 to not use it 1 to use it</td>
</tr>
</tbody>
</table>
How to Run the Sample Application(1)

1. Login the sample application (http://yourDominoServer/ActivitiVacation.nsf/) with an admin user (with Manager authority), and press "Setup" button
How to Run the Sample Application(2)

2. In setup page, input 3 valid Notes Ids of your Domino server: one for employee, one for first line manager, one for second line manager. Click "Create Sample Data Set" will generate sample data for you.
How to Run the Sample Application (3)

3. Login with employee Notes Id. In "My Requests", you will see all requests. Employee can click "New Request" button to create a new request.
How to Run the Sample Application(4)

4. Employee can input vacation request and submit it.
How to Run the Sample Application

5. Login as first line manager id and in the "Pending Tasks" view, manager will see all vacations to be processed. Manager can click "Edit" view detail information of each request.
How to Run the Sample Application

6. As manager, you can input “Manager Motivation” and Approve/Reject employee's request.