

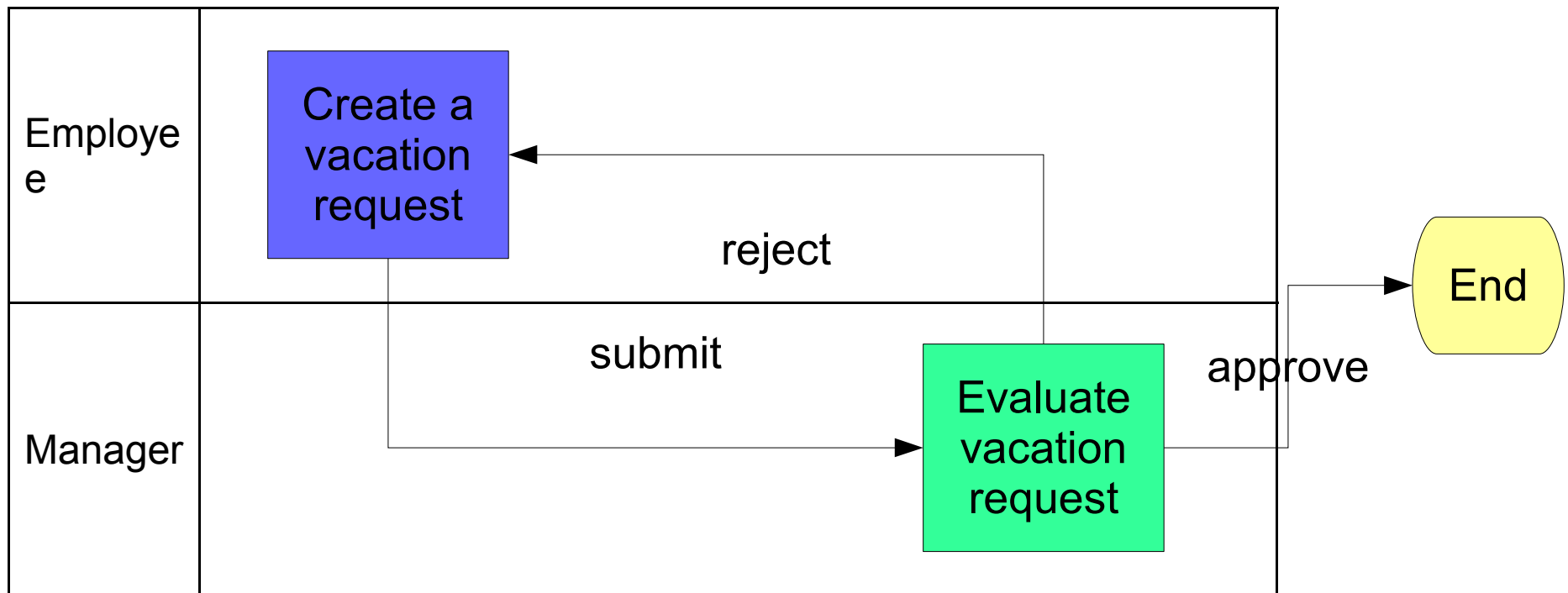
Workflow for XPages Vacation Management on Activiti

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.

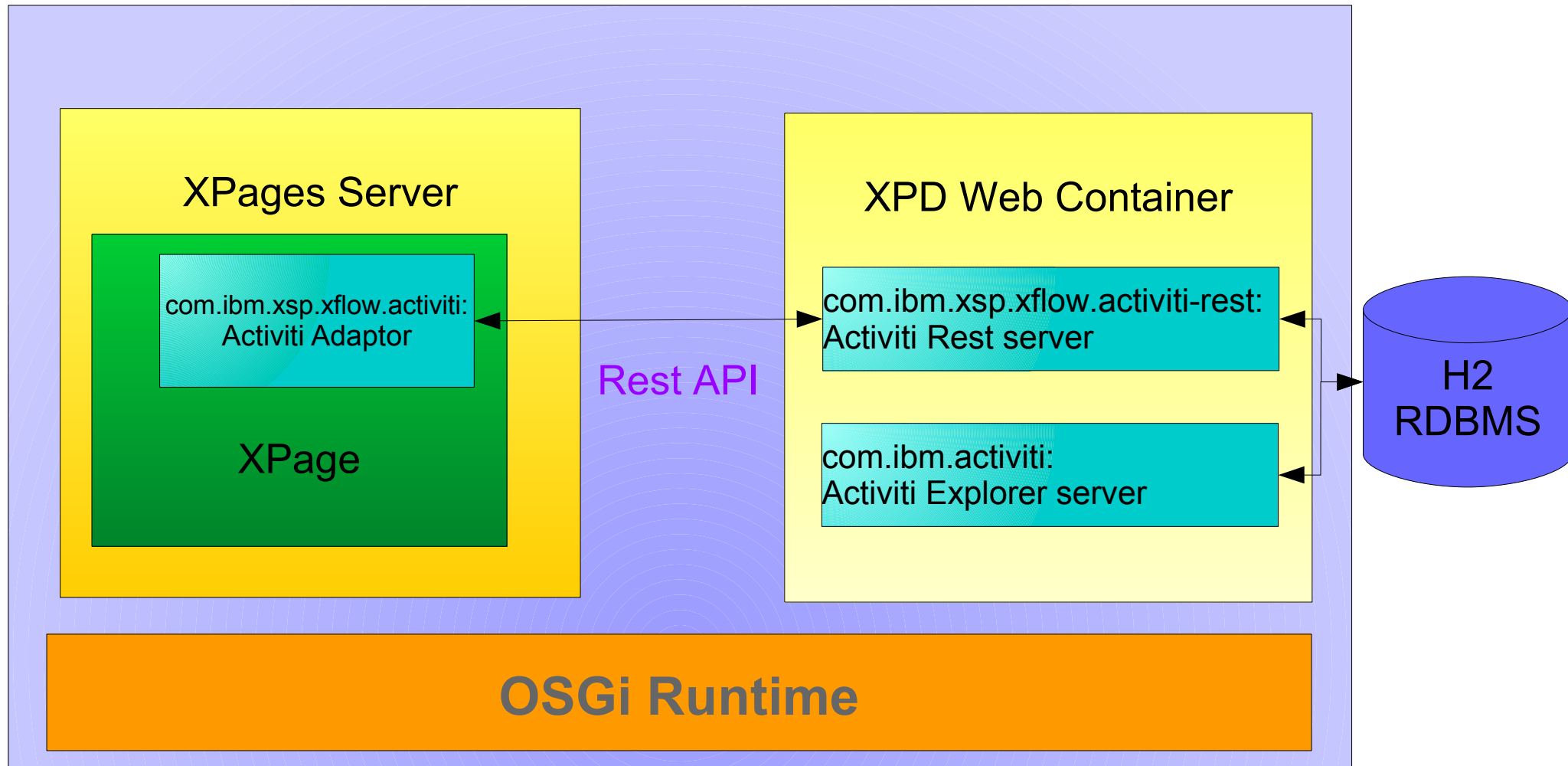


Sample Application Component Introduction

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



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)
13. Access Activiti Explorer server through <http://yourDominoServer/activiti-explorer>, login with user name/password: `kermit/kermit`

Guide to Setup Vacation Management App(2)

14. Import vacation management process definition in
xflow/setup/vacationRequestSample.bpmn20.xml to Activiti server

The screenshot displays the Activiti Explorer web application. The top navigation bar includes 'Tasks', 'Processes' (highlighted with a red box), and 'Manage'. Below this, the 'Model workspace' tab is selected and highlighted with a red box. The 'Import' button is also highlighted with a red box. On the left sidebar, 'Vacation Request Sample' is listed under 'Demo model'. The main workspace shows a 'Demo model' with 'Version 1' and a 'Process Diagram'. A dialog box titled 'Import a model' is open, prompting the user to 'Select a file (.bpmn20.xml or .bpmn) with BPMN DI information.' The 'Choose a file' button in the dialog is highlighted with a red box. The background process diagram shows a flow starting from a start node, passing through an XOR gateway, and then splitting into two parallel paths: 'User task 2' and 'User task 3'.

Guide to Setup Vacation Management App(3)

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

The screenshot shows the Activiti Explorer web application. The top navigation bar includes 'Tasks', 'Processes', and 'Manage' tabs. The 'Processes' tab is active, showing a list of models on the left: 'Demo model' and 'Vacation Request Sample'. The 'Vacation Request Sample' model is selected, and its details are shown in the main workspace. The workspace title is 'Vacation Request Sample' with 'Version 1'. Below the title is the 'Process Diagram' section, which displays a BPMN diagram. The diagram starts with a 'Submit Request' event, followed by a 'Handle Vacation Request' task, and then a decision diamond labeled 'Request approved?'. The decision diamond has two outgoing flows: one for the condition `${vacationApproved == 'true'}` leading to the right, and another for the condition `${vacationApproved == 'false'}` leading to a task at the bottom. On the right side of the workspace, there is a 'Model action' dropdown menu. The 'Deploy' option is highlighted with a red rectangle. Other options in the menu are 'Copy model', 'Delete model', and 'Export model'.

```
graph LR; Start((Submit Request)) --> Task[Handle Vacation Request]; Task --> Decision{Request approved?}; Decision -- "${vacationApproved == 'true'}" --> End1(( )); Decision -- "${vacationApproved == 'false'}" --> End2(( ))
```


Guide to Setup Vacation Management App(4)

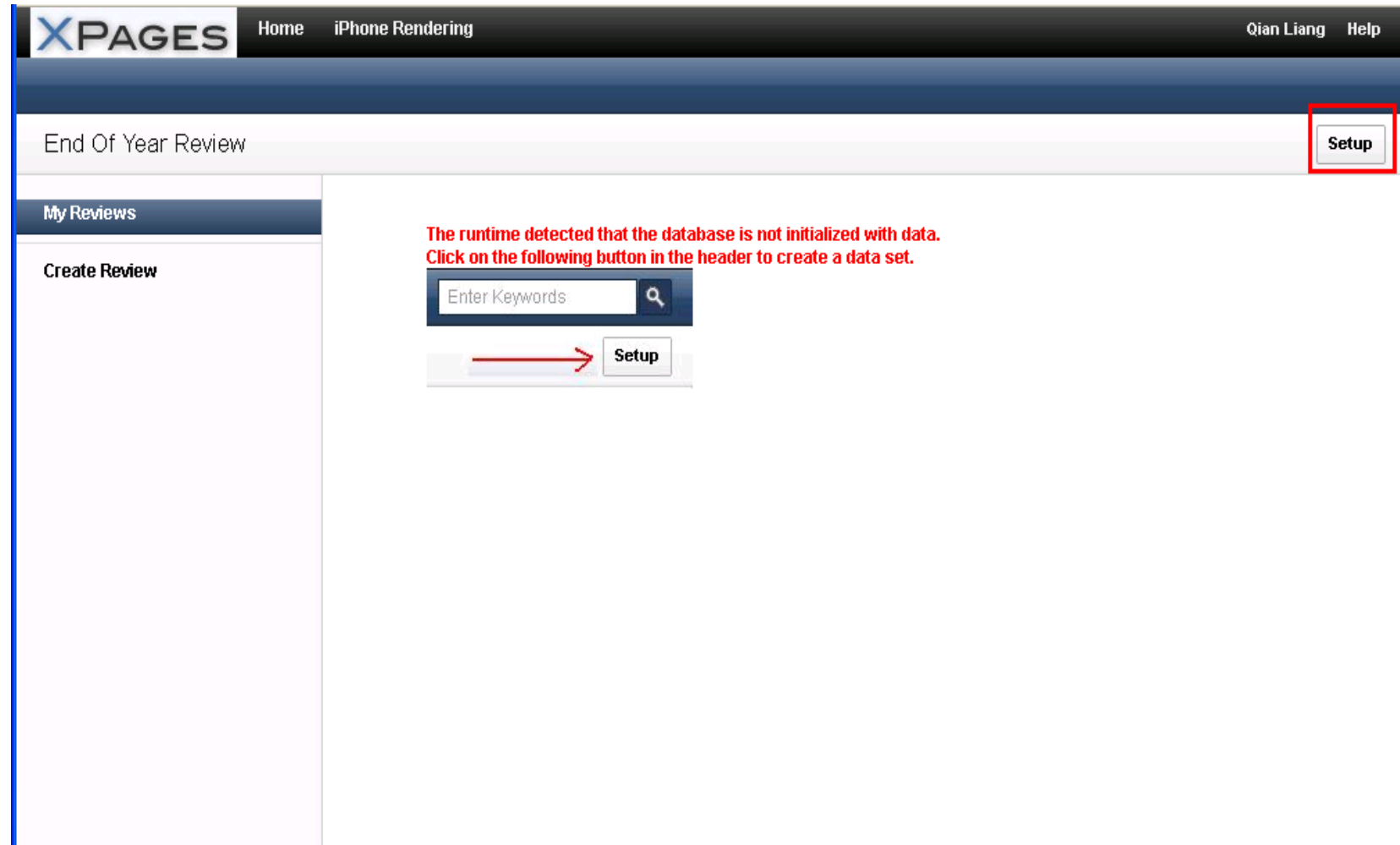
16. Access Admin Page ("<http://yourDominoServer/ActivitiVacation.nsf/WebAdmin.xsp>"), input 3 Notes users in your Domino server, press "Create Sample data set" button to generate sample data;
17. If you want to create more employee, you can create them with Employee form in Notes client(see explanation of Employee field in next page).

Employee Form

Employee Data		
ID:	<input type="text" value="simdray@renovations.com"/>	ID to identify user in workflow system
NotesID:	<input type="text" value="Simone Dray/Renovations"/>	Corresponding Notes ID for workflow user
Full Name:	<input type="text" value="Simone Dray"/>	
Manager	<input type="text" value="0"/>	0 if Employee 1 if Manager
Picture URL	<input type="text" value="/simdray.jpg"/>	
Managers Chain		
	<input type="text" value="graynes@renovations.com"/> <input type="text" value="dmissille@renovations.com"/> <input type="text" value="graynes@renovations.com"/>	User's manager id User's second line manager id and user's manager id
People Managed		
	<input type="text" value=""/>	All managed people ids, separated with comma.
User Preferences		
Use of River of News:	<input type="text" value=""/>	0 to not use it 1 to use it

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.

End Of Year Review

Setup

My Reviews

Create Review

Data Initialization

List of Employees

Current User

Demo Purposes - Create a sample dataset to experiment the application features (users, reviews...)

Add sample users

The following Notes users will be added to the workflow system. And some sample End of Year Review will be created for those users. After generating sample data, you can logon with normal user to view/submit End of Year Review. And the manager can assess/approve the review. To add more user to workflow system, you can open the db with Notes and create Employee.

*Employee:

*First line manager:

*Second line manager:

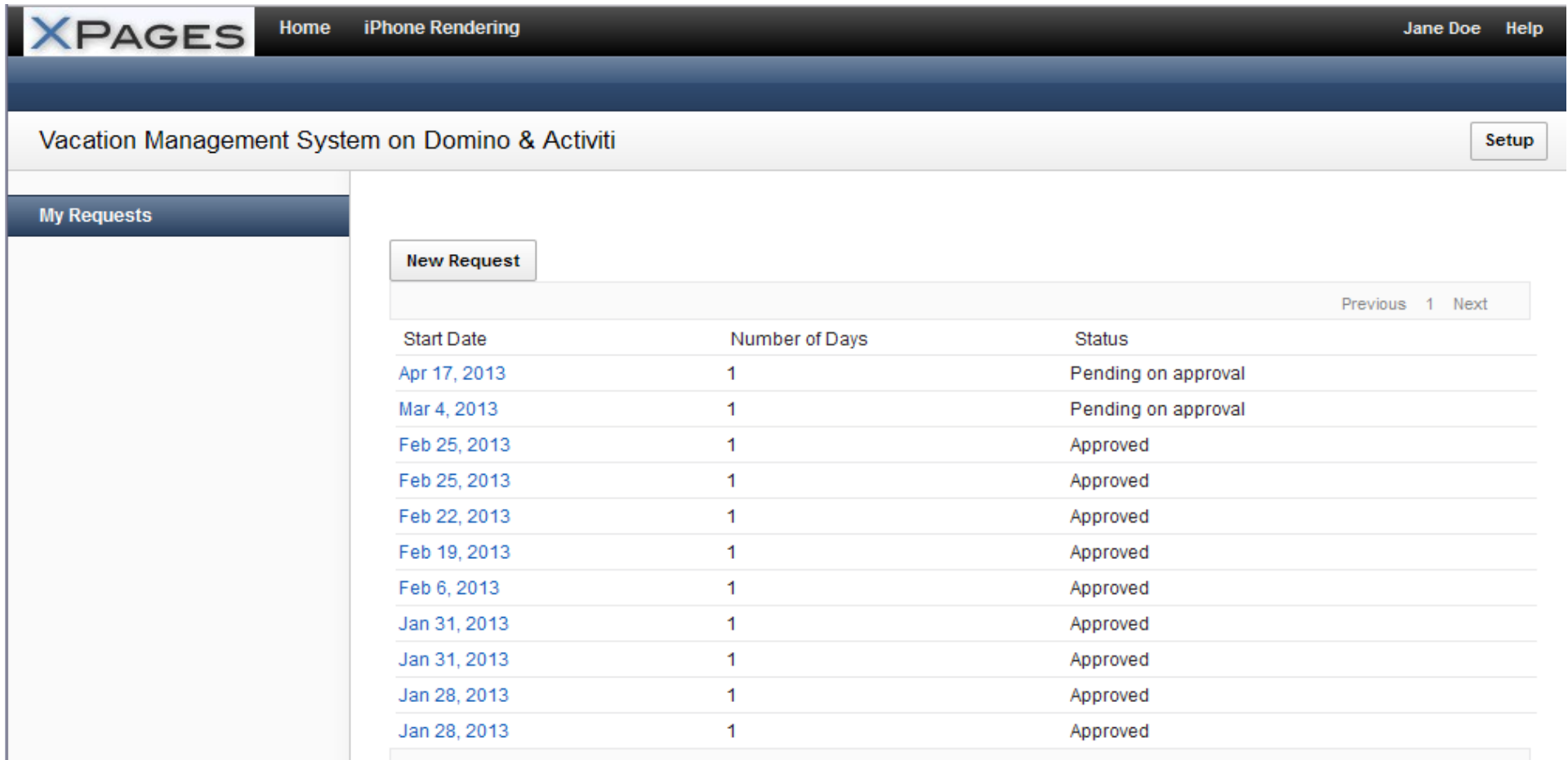
Create Sample Data Set

Recreate the reviews only

Delete All Sample Data

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



The screenshot displays the XPages interface for a Vacation Management System. The top navigation bar includes the 'XPAGES' logo, 'Home', 'iPhone Rendering', and user information 'Jane Doe' with a 'Help' link. The main title is 'Vacation Management System on Domino & Activiti', with a 'Setup' button on the right. A left sidebar contains a 'My Requests' tab. The main content area features a 'New Request' button and a table of requests. The table has columns for 'Start Date', 'Number of Days', and 'Status'. It includes a pagination bar with 'Previous', '1', and 'Next' links. The table lists 12 requests, with the most recent at the top.

Start Date	Number of Days	Status
Apr 17, 2013	1	Pending on approval
Mar 4, 2013	1	Pending on approval
Feb 25, 2013	1	Approved
Feb 25, 2013	1	Approved
Feb 22, 2013	1	Approved
Feb 19, 2013	1	Approved
Feb 6, 2013	1	Approved
Jan 31, 2013	1	Approved
Jan 31, 2013	1	Approved
Jan 28, 2013	1	Approved
Jan 28, 2013	1	Approved

How to Run the Sample Application(4)

4. Employee can input vacation request and submit it.

The screenshot shows a web application interface for a 'Vacation Management System on Domino & Activiti'. The top navigation bar includes the 'XPAGES' logo, links for 'Home' and 'iPhone Rendering', and user information 'Jane Doe' with a 'Help' link. The main content area is divided into a left sidebar with a 'My Requests' link and a main form area. The form contains the following fields: 'Manager' (John Doe), 'Begin Date' (4/17/2013 3:58 PM with a calendar icon), 'Number of Days' (1), 'Requester' (Jane Doe), and 'Vacation Motivation' (a large text area). At the bottom of the form are 'Complete' and 'Save' buttons. A 'Setup' button is located in the top right corner of the main content area.

XPAGES Home iPhone Rendering Jane Doe Help

Vacation Management System on Domino & Activiti Setup

My Requests

Manager: John Doe

Begin Date: 4/17/2013 3:58 PM

Number of Days: 1

Requester: Jane Doe



Vacation Motivation:

Complete Save

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.

The screenshot displays the XPages Vacation Management System interface. The top navigation bar includes the 'XPAGES' logo, 'Home', 'iPhone Rendering', and user information 'John Doe' with a 'Help' link. Below the navigation bar, the main title is 'Vacation Management System on Domino & Activiti', accompanied by a 'Setup' button. A left sidebar contains a menu with 'My Requests', 'My Employee Requests', and 'Pending Tasks' (which is highlighted). The main content area shows a list of pending vacation requests for 'Jane Doe'. Each request entry includes a profile picture, the name 'Jane Doe', the title 'Vacation request of Jane Doe', the start date (e.g., '13-3-4 下午2:08'), the number of days (e.g., '1'), and an 'Edit' link. Navigation links 'Previous', '1', and 'Next' are visible at the top right of the request list.

Vacation request of Jane Doe	
 Jane Doe	Vacation request of Jane Doe Start date: 13-3-4 下午2:08 Number of days: 1 Edit
 Jane Doe	Vacation request of Jane Doe Start date: 13-4-17 下午2:05 Number of days: 1 Edit

How to Run the Sample Application

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

The screenshot shows a web application interface for a Vacation Management System. The top navigation bar includes the 'XPAGES' logo, 'Home', 'iPhone Rendering', and user information 'John Doe' with a 'Help' link. The main title is 'Vacation Management System on Domino & Activiti', with a 'Setup' button on the right. A left sidebar contains links for 'My Requests', 'My Employee Requests', and 'Pending Tasks'. The main content area is titled 'Handle Vacation Request' and displays the following details: Manager: John Doe, Begin Date: 13-3-4 下午2:08, Number of Days: 1, Requester: Jane Doe, and Vacation Motivation: a. There is a text input field for 'Manager Motivation'. At the bottom, the 'Approve Status' is set to 'Approve' with a dropdown arrow, and there are 'Complete' and 'Save' buttons.

XPAGES		Home	iPhone Rendering	John Doe	Help
Vacation Management System on Domino & Activiti					
My Requests					
My Employee Requests					
Pending Tasks					
Handle Vacation Request					
Manager: John Doe					
Begin Date: 13-3-4 下午2:08					
Number of Days: 1					
Requester: Jane Doe					
Vacation Motivation: a					
Manager Motivation: <input type="text"/>					
Approve Status: Approve <input type="button" value="v"/>					
<input type="button" value="Complete"/> <input type="button" value="Save"/>					