Using ActiveVOS XQuery Module

Technical Note

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Overview

This article discusses how to implement a business calendar taking advantage of the new XQuery capabilities available in ActiveVOS 9.0.

Introduction

ActiveVOS 9.0 features a brand new XQuery Editor that allows you to develop XQuery modules. The editor provides syntax coloring, content assistance and can be fully customized to match your coding style. The background error checking provides real-time feedback as you type, reducing your development time.

XQuery user defined functions are immediately accessible from the ActiveVOS Expression Builder and XQuery modules can be imported across contributions.

About the Example Project

The attached project demonstrates how to create an XQuery user defined function in ActiveVOS Designer v9.0, and how to invoke from the assign activity in the expression builder.

The function takes in input, a start date and the number of business days and generates in output the next business day.
Simple Illustration:

Example 1:
Start Date: June 10th 2011 (Friday)
# Of Business Days: 5
The user should get the output of June 17th 2011 (i.e. 5 days excluding the weekend presumably non business days)

Example 2:
Start Date: May 27th 2011
# Of Business Days: 3
The user should get the output of June 1th 2011 (i.e. excluding the weekend presumably non business days, and a public holiday on May 30th 2011)

The public holidays for North America have been provided as an example and stored in XML format, in the catalog. The calendar can be modified to match different national festivities.

Project Deployment Instructions

1. Import the attached project.
2. Note that the XQuery we use to calculate the days logic is in the XQuery module – “business-days-from.xq”
3. The orchestration project would automatically recognize the XQuery modules within them and the referenced projects, and thereby will make it available to be used in the XQuery expression builder (See: CalculateNextBusinessDay - assign activity).
4. Deploy the project to the ActiveVOS 9.0 server.

Project Execution Instructions

1. Login to the Central (with a user/pass: loanrep1/loanrep1) to send in a request to the process.
2. Verify the output in the same screen.
About Active Endpoints

Active Endpoints (www.activevos.com) ActiveVOS is the leader in service-oriented BPM software for process automation. ActiveVOS empowers project teams to create business process management (BPM) applications using services, making their businesses more agile and effective. ActiveVOS promotes mass adoption of SOA-enabled BPM applications by focusing on accelerating project delivery time with a complete, affordable and easy-to-use system. Active Endpoints is headquartered in Waltham, MA with development facilities in Shelton, CT.

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