

Call Doctor Search Service with GET Method

SCENARIO:

Invoking a Web Service with GET Method to Retrieve Information

Scenario Description

Case:

Invoking a web service with GET method in order to search appropriate doctor according to the proficiency

GOAL:

Demonstrate how to call a external service with GET method





Mapping ADOxx Functionality





Added Value of Metamodelling Platform

Used meta-modelling functionality for realisation of the scenario:

•ADOScript: ADOScript can retrieve model information, sends request to the API

- •ADOxx Visualisation Component: is provided by the platform and enables configuration of the user interface of model editor
- •ADOScript Service: ADOScript Service: ADOScript Service listens a certain port to get and interpret requests

ADOxx Realisation Hands-On

1. Modelling Language

- 1. Model Types "Space Model"
- 2. New class "Doctor"
- 3. Add Attributes

2. Configure ADOxx

1. Configure Space Model AttrRep

3. Implement Algorithm with ADOscript

1. Search Doctor

Used ADOxx Functionality: Implementing an Algorithm

Introduction

Setup of Implementation Environment

Modelling Language Implementation

Classes

Relations

Class Attributes and Attributes

GRAPHREP

ATTRREP

CLASS Cardinality

CONVERSION

Model Pointer

Attribute Facets

Model Types

Mechanisms & Algorithms Implementation

Core Functions for Model Manipulation

Database

Visualisation

Query

Transformation Configuration of ADOxx Components Visualisation

Query

External Coupling ADOxx Functionali ADOscript Triggers

ADOscript Language Constructs Visualisation ADOscript Visualisation Expression

Query ADOscript Transformation ADOscript



ADD-ON Implementation

ADOxx Web-Service XML / ADL Import – Export

ADOscriptBatch Mode

HANDS-ON

Call Doctor Search Service with GET Method

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Define new Modeltypes Space Model"



New Modeltypes:

•Select "Call External Service with GET Methdo Dynamic Library" and open Library attributes.

•Got to Add Ons

•Add the Modeltypes "Doctor Pool Model" in the Modi attribute

•When the classes are defined, you need to INCLUDE "Doctor" under "Doctor Pool Model"

Create New Classes

	Call External Service with GET Method Dynamic Library - Edit class hierarchy
Library management Settings Checks Management Application libraries:	Class hierarchy: Perive a new class Doctor Cancel View • Cancel View • Class name: Derive a new class Class name: Cancel Superclass: D-construct Help

Create New Classes

•Select "Call External Service with GET Methdo Dynamic Library" and open Library attributes.

•Open Class hierarchy, view

"Metamodel" and "Class hierarchy" in the View button, select

__D-construct__ and click new class. •Name new classes:

"Doctor" and "__ModelTypeMetaData__"

• "Doctor" and "___ModelTypeMetaData___

•are now sub-classes of __D-construct__

Add Attributes for Classes

Add Attributes

•Select "Doctor" and click Newattribute.

Make "Search Doctor" as type PROGRAMCALL
Make "Name" and "Proficiency" as type STRING

•Select "___ModelTypeMetaData___" and click New, attribute.

•Make "DocPoolModelAttrRep" as type LONGSTRING.

Implement and Import ADOscript File into Database

```
SearchForDoc.asc (please find whole code in the package)
```

CC "Modeling" GET_ACT_MODEL SET n_act_modelid:(modelid) CC "Core" GET_ATTR_VAL objid:(n_act_modelid) attrname:("DocWSEndpoint") as-string SET s_service_endpoint:(val) #SET s_service_endpoint:("http://10.0.1.114:9080/eHMWS/webresources/getConceptsWS/doctors/") SET temp_result_file:("C:\\Results")

```
SET s_annotation_call:(s_service_endpoint+"annotation")
SYSTEM ("C:\\SearchDoc.bat "+s_annotation_call) with-console-window
CC "AdoScript" FREAD file:(temp_result_file) binary:0 base64:0
SET s_annotatations:(text+"$all")
```

```
CC "AdoScript" LISTBOX entries:(s_annotatations) toksep:("$") boxtext:("Proficiency") title:("Select a Proficiency") SET s_selected_annotation:(selection) IF (endbutton = "ok")
```

```
{
```

```
SET s_doc_call:(s_service_endpoint)
```

```
IF (s_selected_annotation != "all")
```

```
SET s_doc_call:(s_doc_call+s_selected_annotation)
```

}

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```
SYSTEM ("C:\\SearchDoc.bat "+s_doc_call)
```

```
CC "AdoScript" FREAD file:(temp_result_file) binary:0 base64:0
SET s_pos_doc_candidate_infos:(text)
```

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- Copy Bat File into C:
- Deploy provided WAR file on a Tomcat (6.x or higher)
- Set in model attribute "DocWSEnpoint" end point of your service like "http://localhost:8080/DocSearchWS/webresou rces/getConceptsWS/doctors/"

Results



