# D2

## Ensemble 开发

### 创建第一对消息

Class Demo.LISClient.MSG.AddPatientReq Extends Ens.Request

{

Property PatientNumber As %String;

Property FullName As %String;

Property Gender As %String(VALUELIST = ",M,F");

}

Class Demo.LISClient.MSG.AddPatientResp Extends Ens.Response

{

Property Id As %String;

Property PatientNumber As %String;

Property FullName As %String;

Property Gender As %String(VALUELIST = ",M,F");

}

## Ensemble 开发

### 业务操作

Class Demo.LISClient.Operation.PatientOperation Extends EnsLib.REST.Operation

{

Parameter INVOCATION = "Queue";

Method AddPatient(pRequest As Demo.LISClient.MSG.AddPatientReq, Output pResponse As Demo.LISClient.MSG.AddPatientResp) As %Status

{

try {

// Prepare and log the call

Set tURL=..Adapter.URL

#Dim reqObj As %DynamicObject = {}

set reqObj.PatientNumber = pRequest.PatientNumber

set reqObj.FullName = pRequest.FullName

set reqObj.Gender = pRequest.Gender

// Execute the call

Set tSC= ..Adapter.PostURL(tURL,.tHttpResponse, , reqObj.%ToJSON())

// Return the response

If $IsObject(tHttpResponse) {

// Instantiate the response object

set pResponse = ##class(Demo.LISClient.MSG.AddPatientResp).%New()

// Convert JSON into a Proxy Cache Object

set tProxy = {}

set tSC = ..JSONStreamToObject(tHttpResponse.Data, .tProxy)

if (tSC){

// Set response properties from the Proxy Object

set pResponse.Id = tProxy.Id

set pResponse.PatientNumber = tProxy.PatientNumber

set pResponse.FullName = tProxy.FullName

set pResponse.Gender = tProxy.Gender

}

}

}catch{

Set tSC=$$$SystemError

}

Quit tSC

}

XData MessageMap

{

<MapItems>

<MapItem MessageType="Demo.LISClient.MSG.AddPatientReq">

<Method>AddPatient</Method>

</MapItem>

</MapItems>

}

}

## Ensemble 开发

### 数据转换 DT

Class CDR.BP.MSG.AddPatientRequest Extends Ens.Request

{

Property IDNumber As %String;

Property PatientNumber As %String;

Property FirstName As %String;

Property LastName As %String;

Property Gender As %String(VALUELIST = ",M,F");

Property DOB As %Date;

Property Citizenship As %String;

Property PhoneNumber As %String;

}

Ensemble 开发

业务流程

Class Demo.LISClient.MSG.AddPatientResp Extends Ens.Response

{

Property Id As %String;

Property PatientNumber As %String;

Property FullName As %String;

Property Gender As %String(VALUELIST = ",M,F");

}