Question
p rd · Mar 26, 2018

Web service how to return json data

Server:

```
Class webservice.SOAPResponse Extends (%RegisteredObject, %XML.Adaptor)
{

Property CustomerID As %String;

Property Name As %String;

Property Street As %String;

Property City As %String;

Property State As %String;

Property Zip As %String;

}

//--------------------


///
Class webservice.webServiceServer Extends %SOAP.WebService [ ProcedureBlock ]
{

Parameter SERVICENAME = "webServiceServer";

Parameter NAMESPACE = "http://tempuri.org";

Parameter USECLASSNAMESPACES = 1;

Method info(queryInfo As %String) As webservice.SOAPResponse [ WebMethod ]
{


    set soapresponse=##class(webservice.SOAPResponse).%New()
    set soapresponse.CustomerID="aaavca1"
    set soapresponse.Name="server:"_queryInfo
    set soapresponse.Street="aaaa3"
    set soapresponse.City="aaaccxaa4"
    set soapresponse.State="aaaszxaaa5"
    set soapresponse.Zip="aaaaazzaa6"
    quit soapresponse
}

/// return json
Method infoJson() As %String [ WebMethod ]
```

```
{

    set soapresponse=##class(webservice.SOAPResponse).%New()
    set soapresponse.CustomerID="1"
    set soapresponse.Name="2"
    set soapresponse.Street="3"
    set soapresponse.City="4"
    set soapresponse.State="5"
    set soapresponse.Zip="6"
    s result=""
    d ##class(%ZEN.Auxiliary.jsonProvider).%ObjectToJSON(soapresponse,.result,,"s")
    s resultinfo=result
    /// return null
    q resultinfo
}

}
```

/// ----------

Client:

```
/// created: http://localhost:57772/dthealth/web/webservice.webServiceServer.CLS?WSDL
=1
Class webServiceServer.SOAPResponse Extends (%RegisteredObject, %XML.Adaptor) [ Proce
dureBlock ]
{

Parameter ELEMENTQUALIFIED = 1;

Parameter NAMESPACE = "http://tempuri.org";

Parameter XMLNAME = "SOAPResponse";

Parameter XMLSEQUENCE = 1;

Property CustomerID As %String(MAXLEN = "", XMLNAME = "CustomerID");

Property Name As %String(MAXLEN = "", XMLNAME = "Name");

Property Street As %String(MAXLEN = "", XMLNAME = "Street");

Property City As %String(MAXLEN = "", XMLNAME = "City");

Property State As %String(MAXLEN = "", XMLNAME = "State");

Property Zip As %String(MAXLEN = "", XMLNAME = "Zip");

}
```

//----------

```
 Class
webServiceServer.webclient.webService
ServerSoap Extends %SOAP.WebClient [ ProcedureBlock ]
{
```

```
/// This is the URL used to access the web service.
Parameter LOCATION =
"http://localhost:57772/dthealth/web/webservice.webServiceServer.cls";

/// This is the namespace used by the Service
Parameter NAMESPACE = "http://tempuri.org";

/// Use xsi:type attribute for literal types.
Parameter OUTPUTTYPEATTRIBUTE = 1;

/// Determines handling of Security header.
Parameter SECURITYIN = "ALLOW";

/// This is the name of the Service
Parameter SERVICENAME = "webServiceServer";

/// This is the SOAP version supported by the service.
Parameter SOAPVERSION = 1.1;

Method info(queryInfo As %String) As
webServiceServer.SOAPResponse [ Final, ProcedureBlock = 1,
SoapBindingStyle = document, SoapBodyUse = literal, WebMethod ]
{
 Quit ..WebMethod("info").Invoke($this,
"http://tempuri.org/webservice.webServiceServer.info",.queryInfo)
}

Method infoJson() As %String [ Final, ProcedureBlock = 1,
SoapBindingStyle = document, SoapBodyUse = literal, WebMethod ]
{
 Quit ..WebMethod("infoJson").Invoke($this,
"http://tempuri.org/webservice.webServiceServer.infoJson")
}

}

// -----------------------------------------------------------
```

Test:

```
Class PRD.Test Extends %RegisteredObject
{

///  d ##class(PRD.Test).testWebClient()
ClassMethod testWebClient()
{
    s obj = ##class(webServiceServer.webclient.webServiceServerSoap).%New()
    s val = obj.info("client")
    w val.CustomerID,!
    w val.Name,!
    w val.Street,!
    w val.City,!
    w val.State,!
    w val.Zip,!
}

/// test return json.
///  d ##class(PRD.Test).testWebClientJson()
```

```
ClassMethod testWebClientJson()
{
    s obj = ##class(webServiceServer.webclient.webServiceServerSoap).%New()
    s val = obj.infoJson()
    /// val is null
    w val,!
}

/// d ##class(PRD.Test).test1()
ClassMethod test1() As %String
{
    set soapresponse=##class(webservice.SOAPResponse).%New()
    set soapresponse.CustomerID="1"
    set soapresponse.Name="2"
    set soapresponse.Street="3"
    set soapresponse.City="4"
    set soapresponse.State="5"
    set soapresponse.Zip="6"
    s result=""
    s abc=##class(%ZEN.Auxiliary.jsonProvider).%ObjectToJSON(soapresponse,.result,,"s
")
    /// result =  {"CustomerID":"1","Name":"2","Street":"3","City":"4","State":"5","Z
ip":"6"}
    q result
}

}
```

Comparing:

/// ok

/// d ##class(PRD.Test).test1()

```
ClassMethod test1() As %String
{
    set soapresponse=##class(webservice.SOAPResponse).%New()
    set soapresponse.CustomerID="1"
    set soapresponse.Name="2"
    set soapresponse.Street="3"
    set soapresponse.City="4"
    set soapresponse.State="5"
    set soapresponse.Zip="6"
    s result=""
    /// {"CustomerID":"1","Name":"2","Street":"3","City":"4","State":"5","Zip":"6"}
    s abc=##class(%ZEN.Auxiliary.jsonProvider).%ObjectToJSON(soapresponse,.
result,,"s")
    q result
}
```

/// ---

```
/// error
/// d ##class(webservice.webServiceServer).infoJson()
Method infoJson() As %String [ WebMethod ]
{
    set soapresponse=##class(webservice.SOAPResponse).%New()
```

```
    set soapresponse.CustomerID="1"
    set soapresponse.Name="2"
    set soapresponse.Street="3"
    set soapresponse.City="4"
    set soapresponse.State="5"
    set soapresponse.Zip="6"
    s result=""
    d ##class(%ZEN.Auxiliary.altJSONProvider).%WriteJSONFromObject(,.result)
    s ^TMPPRD1=result
    s resultinfo=result
    q resultinfo
}
```

How can I modify it? Thank you!

#Error Handling #JSON #SOAP #Ensemble

Source URL:https://community.intersystems.com/post/web-service-how-return-json-data