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Invoking SharePoint web services through PDF form

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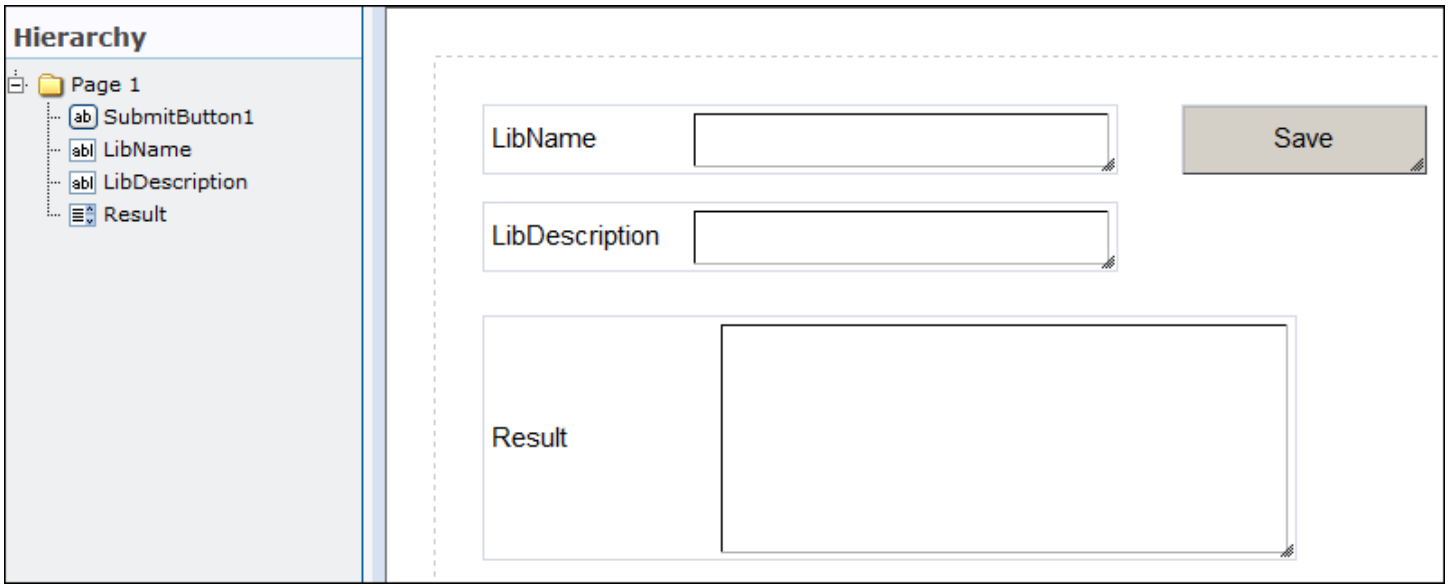
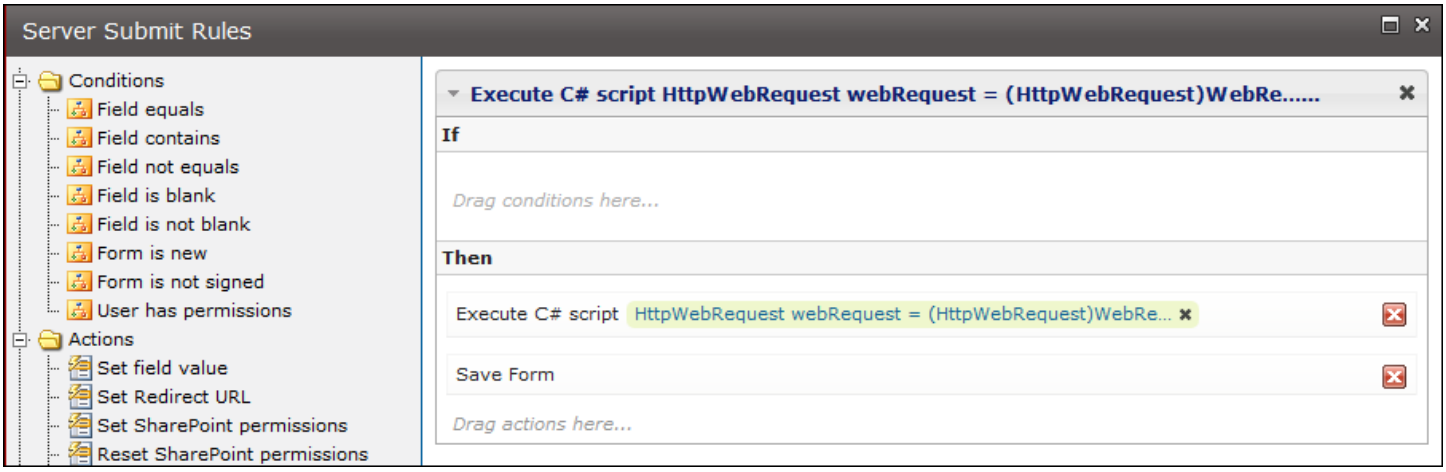
The idea of this guide is to show how to call web services from PDF form. This example is based on SharePoint web services – creating new library using "AddList" operation.

Step 1. Create PDF template with following fields:



Template has submit button, two text field and multiline text field. Text fields "LibName" and "LibDescription" will be used to set name and description for newly created library. Multiline text field "Result" will confirm successful library creation, or display error, if it will occur.

Step 2. Add script action to "**Form Submit**" event (**PDF Form Tools → Developer → Form Submit**):



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Place “Execute script” action above “Save Form” action and add following code:

This part is responsible for generating header, obtaining required operation and credentials:

```
HttpWebRequest webRequest =
(HttpWebRequest)WebRequest.Create("http://demo.pdfsharepoint.com/demo/pfbvbxke/_vti_bin/Lists.
asmx");
webRequest.Headers.Add("SOAPAction", "http://schemas.microsoft.com/sharepoint/soap/AddList");
webRequest.ContentType = "text/xml;charset=utf-8";
webRequest.Method = "POST";
NetworkCredential nc= new NetworkCredential("accountName","password","domain");
webRequest.Credentials = nc;
webRequest.Accept = "text/xml";
```

This part is responsible for getting library name, description and type. Also it will create required library:

```
try
{
    XmlDocument soapEnvelopeXml = new XmlDocument();
    string CreateDocumentListSOAPTemplate =
        @"<?xml version='1.0' encoding='utf-8'?>
<soap:Envelope xmlns:xsi='http://www.w3.org/2001/XMLSchema-instance'
xmlns:xsd='http://www.w3.org/2001/XMLSchema'
xmlns:soap='http://schemas.xmlsoap.org/soap/envelope/'>
<soap:Body>
<AddList xmlns='http://schemas.microsoft.com/sharepoint/soap/'>
<listName>#token_DirectoryListName#</listName>
<description>#token_DirectoryDescription#</description>
<templateID>#token_DirectoryType#</templateID>
</AddList>
</soap:Body>
</soap:Envelope>";
    string listName = data.resolveNode("LibName").value;
    string listDescription = data.resolveNode("LibDescription").value;
    string listType = "101";
    soapEnvelopeXml.LoadXml(CreateDocumentListSOAPTemplate.Replace("#token_DirectoryListName#",
listName).Replace("#token_DirectoryDescription#",
listDescription).Replace("#token_DirectoryType#", listType));
    using (Stream stream = webRequest.GetRequestStream())
    {
        soapEnvelopeXml.Save(stream);
    }
    using (WebResponse response = webRequest.GetResponse())
    {
        using (StreamReader rd = new StreamReader(response.GetResponseStream()))
        {
            string soapResult = rd.ReadToEnd();
        }
    }
    data.resolveNode("Result").value = "Library " + data.resolveNode("LibName").value + " has
been created!";
}
```


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This is the last part – it will write error message to the Result multiline text field is some error will occur during creation of library:

```
catch (Exception exception)
{
    //Handle exception
    data.resolveNode("Result").value = exception.ToString();
}
```

This script will use entered credentials to create new library using web services on selected site.

Please pay attention to red fragments in the code:

1. `HttpWebRequest webRequest = (HttpWebRequest)WebRequest.Create("http://demo.pdfsharepoint.com/demo/pfbvbxke/_vti_bin/Lists.asmx");` - this line of code contains site url + link to necessary web service. Use site url where you want changesto occur
2. `NetworkCredential nc= new NetworkCredential("accountName","password","domain");` - here you need to write account, its password and domain. This account will be used to access required service action.

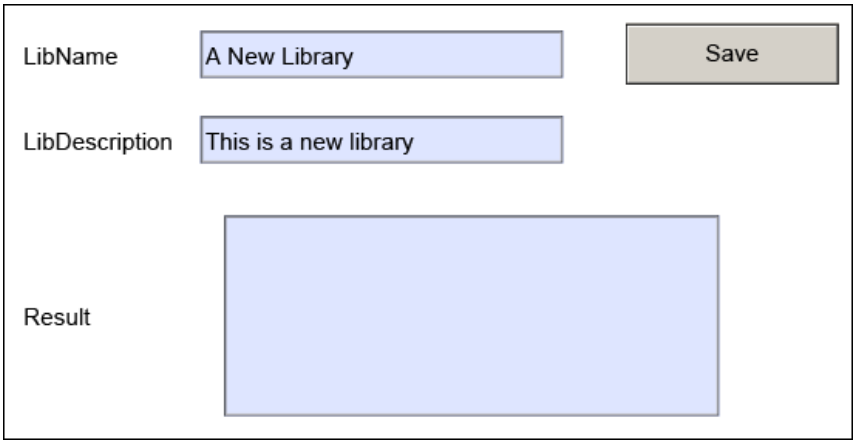
Note: you can preview list of available web service actions here:
http://blog.crsw.com/sharepoint/index-of-sharepoint-web-services/

Full text of this script can be found in **Appendix 1** of this guide.

Step 3. Save template and deploy to library.

Step 4. Runtime

Step 4.1. Create new form:



In this example “A New Library” was selected as name and “This is a new library” as description for newly created library.

Step 4.2. Save this form and check “All Site Content”:

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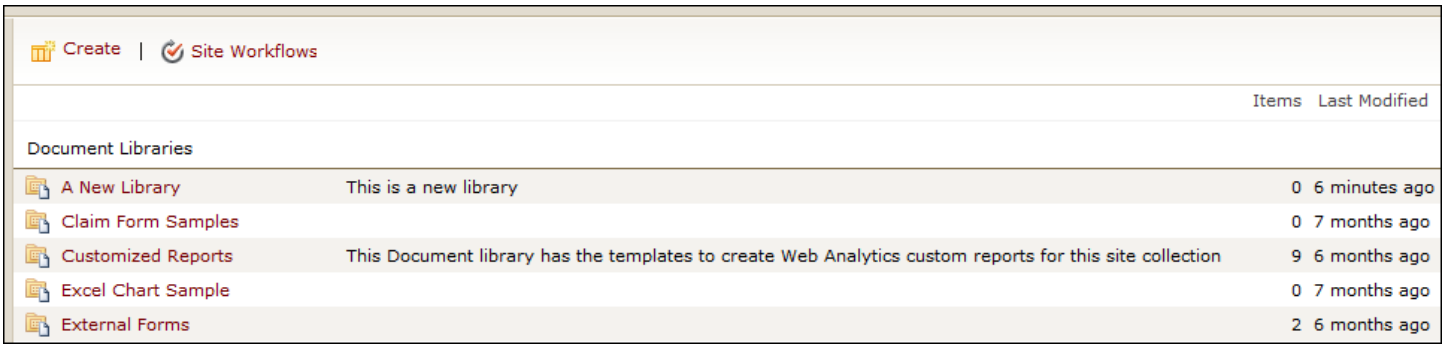

As the result, new library was created.

Appendix 1

```
HttpWebRequest webRequest =
(HttpWebRequest)WebRequest.Create("http://demo.pdfsharepoint.com/demo/pfbvbxke/_vti_bin/Lists.asmx");
webRequest.Headers.Add("SOAPAction", "http://schemas.microsoft.com/sharepoint/soap/AddList");
webRequest.ContentType = "text/xml;charset=utf-8";
webRequest.Method = "POST";
NetworkCredential nc= new NetworkCredential("accountName","password","domain");
webRequest.Credentials = nc;
webRequest.Accept = "text/xml";

try
{
   XmlDocument soapEnvelopeXml = new XmlDocument();
   string CreateDocumentListSOAPTemplate =
      @"<?xml version='1.0' encoding='utf-8'?>
<soap:Envelope xmlns:xsi='http://www.w3.org/2001/XMLSchema-instance'
xmlns:xsd='http://www.w3.org/2001/XMLSchema' xmlns:soap='http://schemas.xmlsoap.org/soap/envelope/'>
<soap:Body>
<AddList xmlns='http://schemas.microsoft.com/sharepoint/soap/'>
<listName>#token_DirectoryListName#</listName>
<description>#token_DirectoryDescription#</description>
<templateID>#token_DirectoryType#</templateID>
</AddList>
</soap:Body>
</soap:Envelope>";
   string listName = data.resolveNode("LibName").value;
   string listDescription = data.resolveNode("LibDescription").value;
   string listType = "101";
   soapEnvelopeXml.LoadXml(CreateDocumentListSOAPTemplate.Replace("#token_DirectoryListName#",
listName).Replace("#token_DirectoryDescription#", listDescription).Replace("#token_DirectoryType#", listType));
   using (Stream stream = webRequest.GetRequestStream())
   {
      soapEnvelopeXml.Save(stream);
   }
   using (WebResponse response = webRequest.GetResponse())
   {
      using (StreamReader rd = new StreamReader(response.GetResponseStream()))
```


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```
        {
            string soapResult = rd.ReadToEnd();
        }
    }
    data.resolveNode("Result").value = "Library " + data.resolveNode("LibName").value + " has been created!";
}
catch (Exception exception)
{
    //Handle exception
    data.resolveNode("Result").value = exception.ToString();
}
```


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