Archived:WidSets Filter test

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The article is believed to be still valid for the original topic scope.

About this widget

This is a widget for testing filters with the HTTP service.

Xpath used in this example. Regex filters are also available.

WidSets Scripting Language code: filter_test.he

```
class
{
  const int CMD_BACK   = 1;
  const int CMD_CANCEL = 2;

  MenuItem BACK   = new MenuItem(CMD_BACK, "Back");
  MenuItem CANCEL = new MenuItem(CMD_CANCEL, "Cancel");

  String URL = "http://www.deftit.com/data.xml";

  Flow content;
  Prompt prompt;

  Component createElement(String view, String id, Style style, Object ctx)
  {
    if (id.equals("max")) {
      content = new Flow(style);
      content.setPreferredSize(-100, -100);
      content.add(createLabel("Loading"));
      return content;

    } else {
      return null;
    }
  }


  void startWidget()
  {
    setMinimizedView(createMinimizedView("viewMini", getStyle("white")));
  }


  Shell openWidget()
  {
    Flow view = createMaximizedView("viewMaxi", getStyle("maxi"));
    Shell shell = new Shell(view);

    fetchData();
    return shell;
  }


  Label createLabel(String text)
  {
    Label label = new Label(getStyle("label"), text);
    label.setPreferredWidth(-100);
    return label;
  }


  void fetchData()
  {
    printf("Fetching data");
    call(null, "httpService" , "get", ["url" => URL], success, failure);
    prompt = new Prompt(null, "Downloading...", null, CANCEL);
    prompt.push();


    void success(Object state, Value ret)
    {
      printf("ret: "+ret);
      closePrompt();

      content.clear();
      foreach (Value item : ret) {
        content.add(createLabel(String(item[1])));
      }
    }

    void failure(Object state, String error)
    {
      printf("error: "+error);
      closePrompt();
    }

    void closePrompt()
```


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```
    {
      if (prompt != null) {
        prompt.pop();
        prompt = null;
      }
    }
  }


  MenuItem getSoftKey(Shell shell,
                      Component focused,
                      int key)
  {
    if (key == SOFTKEY_OK) {
      return null;

    } else if (key == SOFTKEY_BACK) {
      return BACK;
    }
    return null;
  }


  void actionPerformed(Shell shell, Component source, int action)
  {
    switch(action)
    {
      case CMD_BACK:
      {
        content = null;
        popShell(shell);
      }
      break;

      case CMD_CANCEL:
      {
        if (prompt != null) {
          prompt.pop();
          prompt = null;
        }
      }
      break;
    }
  }

}
```

Widget.xml

```
<?xml version="1.0" encoding="utf-8"?>

<widget spec_version="2.0">

  <info>
    <name>filter_test</name>
    <version>0.1</version>
    <author>render</author>
    <clientversion>0.98</clientversion>
    <shortdescription>Example widget demonstrating use of xpath filters</shortdescription>
    <longdescription>Example widget demonstrating use of xpath filters to fetch XML data from Web page.</longdescription>
    <tags>test example xpath filter</tags>
  </info>

  <services>
    <service type="http" id="httpService">
     <filter id="xpathfilter"/>
    </service>
  </services>

  <filters>
    <filter id="xpathfilter">
      <list>
        <foreach>
          <xpath>/record/*</xpath>
          <item>
            <name><xpath>name()</xpath></name>
            <value><xpath>text()</xpath></value>
          </item>
        </foreach>
      </list>
    </filter>
  </filters>

  <parameters>
    <parameter name="widgetname">filter_test</parameter>
  </parameters>

  <resources>
    <code src="filter_test.he"/>

    <stylesheet>
      white {
        background: solid white;
      }

      minbg {
        background: solid white;
      }

      titleLabel {
        padding: 0 0 10 0;
        font-1: small bold;
        color-1: #000000;
        align: hcenter vcenter;
      }

      maxi {
        color-1: black;
        background: solid white;
        align: hcenter vcenter;
        border: 1 1 1 1;
        border-type: rectangle black;
      }
```


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```
      label {
        font-1: large;
        color-1: black;
        align: hcenter vcenter;
      }
    </stylesheet>
  </resources>

  <layout minimizedheight="65sp">
    <view id="viewMini" class="minbg">
      <label class="titleLabel">${widgetname}</label>
    </view>

    <view id="viewMaxi" class="maxi">
      <script id="max" class="maxi"/>
    </view>

    <webview>
      <weblabel class="top:0px;left:10px;">${widgetname}</weblabel>
    </webview>
  </layout>

</widget>
```

Note

Due to *feature* in Xpath-filter implementation,

```
name()
```

function returns extra brackets, and so to use it, you need to do some substringing.

See also

- Archived:WidSets SDK
- Archived:WidSets Client
- Archived:WidSets Scripting Language
- Archived:Widget examples in WidSets
  - Archived:WidClock in WidSets
  - Archived:Memory Game in WidSets
  - **Archived:WidSets Filter test**
  - Archived:Hello World in WidSets
  - Archived:UITest in WidSets

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