

# Datalist Filter Type Plugin

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## Usages

- Used to extend ways of searching the data listing. (Eg. Filter record using Drop down list). Please refer to [Datalist Builder - Filter](#).
- A useable Datalist Filter Type plugin must extends [org.joget.apps.datalist.model.DataListFilterTypeDefault](#) abstract class.

## Abstract Class

### [org.joget.apps.datalist.model.DataListFilterTypeDefault](#)

- Under wflow-core module
- Extended [org.joget.plugin.base.ExtDefaultPlugin](#). Please refer to [Plugin Base Abstract Class and Interface](#).
- Implemented [org.joget.plugin.property.model.PropertyEditable](#). Please refer to [Plugin Base Abstract Class and Interface](#).
- A base abstract class to develop a Datalist Filter Type plugin.

## Method Detail

### Abstract Methods

`getTemplate`

```
public java.lang.String getTemplate(org.joget.apps.datalist.model.DataList datalist, java.lang.String name,  
java.lang.String label)
```

HTML template of the filter.

`getQueryObject`

```
public org.joget.apps.datalist.model.DataListFilterQueryObject getQueryObject(org.joget.apps.datalist.model.  
DataList datalist, java.lang.String name)
```

Condition and parameters to construct query.

### Utility Methods

`getValue`

```
public java.lang.String getValue(org.joget.apps.datalist.model.DataList datalist, java.lang.String name)
```

Convenience method to get value from request parameters.

`getValues`

```
public java.lang.String getValues(org.joget.apps.datalist.model.DataList datalist, java.lang.String name,  
java.lang.String defaultValue)
```

Convenience method to get value from request parameters.

**Return** default value if empty

`getValues`

```

public java.lang.String[] getValues(org.joget.apps.datalist.model.DataList datalist, java.lang.String name)

Convenience method to get values from request parameters.

getValues

public java.lang.String[] getValues(org.joget.apps.datalist.model.DataList datalist, java.lang.String name,
java.lang.String defaultValue)

Convenience method to get values from request parameters.

Return default values if empty. default values can be separated by semicolon ";" if multiple value.

```

## Plugin Properties Options

- Please refer to [Plugin Properties Options](#) for more information.

## Datalist Filter Type Plugin Template Sample

Following is a sample template of a [Text Field Filter Type](#). It is constructed using [FreeMarker](#) syntax. This template will be used and returned by [getTemplate](#) method.

```

public String getTemplate(DataList datalist, String name, String label) {
    PluginManager pluginManager = (PluginManager) AppUtil.getApplicationContext().getBean("pluginManager");
    Map dataModel = new HashMap();
    dataModel.put("name", datalist.getDataListEncodedParamName(DataList.PARAMETER_FILTER_PREFIX+name));
    dataModel.put("label", label);
    dataModel.put("value", getValue(datalist, name, getPropertyString("defaultValue")));
    dataModel.put("contextPath", WorkflowUtil.getHttpServletRequest().getContextPath());
    return pluginManager.getPluginFreeMarkerTemplate(dataModel, getClass(), "/templates
/textFieldDataListFilterType.ftl", null);
}

```

```

<script type="text/javascript" src="${contextPath}/plugin/org.joget.apps.datalist.lib.
TextFieldDataListFilterType/js/jquery.placeholder.min.js"></script>
<input id="${name!}" name="${name!}" type="text" size="10" value="${value!?html}" placeholder="${label!?html}"/>
<script type="text/javascript">
    $(document).ready(function(){
        $('#${name!}').placeholder();
    });
</script>

```

## Explanations

- There are no specific format need to follow.
- Please make sure that the filter input name is the value get from `datalist.getDataListEncodedParamName(DataList.PARAMETER_FILTER_PREFIX+name)`.

## Tutorials

- [Guideline for developing a plugin](#)
- [How to develop a Hyperlink Options Filter](#)

## Related Community Plugins

- **[Text Field Data List Filter Type](#)**  
org.joget.apps.datalist.lib.TextFieldDataListFilterType (wflow-core)