

# 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.

`getValue`

```
public java.lang.String getValue(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 [FreeMaker](#) 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, getClassName(), "/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 specify 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.data.list.lib.TextFieldDataListFilterType (wflow-core)