

# Form Load/Options/Store Binder Plugin

- [Usages](#)
- [Abstract Class](#)
  - [org.joget.apps.form.model.FormBinder](#)
    - [Field Detail](#)
      - [Constants](#)
        - [FORM\\_LOAD\\_BINDER](#)
        - [FORM\\_OPTIONS\\_BINDER](#)
        - [FORM\\_STORE\\_BINDER](#)
    - [Method Detail](#)
      - [Utility Methods](#)
        - [getElement](#)
        - [setElement](#)
- [Interface](#)
  - [org.joget.apps.form.model.FormLoadBinder](#)
    - [Method Detail](#)
      - [Interface Methods](#)
        - [load](#)
  - [org.joget.apps.form.model.FormLoadElementBinder](#)
  - [org.joget.apps.form.model.FormLoadMultiRowElementBinder](#)
  - [org.joget.apps.form.model.FormStoreBinder](#)
    - [Method Detail](#)
      - [Interface Methods](#)
        - [store](#)
  - [org.joget.apps.form.model.FormStoreElementBinder](#)
  - [org.joget.apps.form.model.FormStoreMultiRowElementBinder](#)
  - [org.joget.apps.form.model.FormLoadOptionsBinder](#)
  - [org.joget.apps.form.model.FormAjaxOptionsBinder](#)
    - [Method Detail](#)
      - [Interface Methods](#)
        - [useAjax](#)
        - [loadAjaxOptions](#)
  - [org.joget.apps.form.model.FormDataDeletableBinder](#)
    - [Method Detail](#)
      - [Interface Methods](#)
        - [getFormId](#)
        - [getTableName](#)
- [Plugin Properties Options](#)
- [Tutorials](#)
- [Related Community Plugins](#)

## Usages

- **Form Load Binder Plugins** are used for extending the method of loading data in a form from any data source.
- **Form Options Binder Plugins** are used for extending the method of loading data in a form field's options from any data source.
- **Form Store Binder Plugins** are used for extending the method of storing data in a form to any data source.
- A useable Form Binder plugin must extends [org.joget.apps.form.model.FormBinder](#) abstract class and implements one or more of the corresponding interfaces.

## Abstract Class

### org.joget.apps.form.model.FormBinder

- 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 Form Load Binder, Form Options Binder or Form Store Binder plugin.

### Field Detail

#### Constants

`FORM_LOAD_BINDER`

```
public static final java.lang.String FORM_LOAD_BINDER = "loadBinder";
```

Property key used in in Form Field Element to retrieve Form Load Binder Plugin

FORM\_OPTIONS\_BINDER

```
public static final java.lang.String FORM_OPTIONS_BINDER = "optionsBinder";
```

Property key used in in Form Field Element to retrieve Form Options Binder Plugin

FORM\_STORE\_BINDER

```
public static final java.lang.String FORM_STORE_BINDER = "storeBinder";
```

Property key used in in Form Field Element to retrieve Form Store Binder Plugin

## Method Detail

### Utility Methods

getElement

```
public org.joget.apps.form.model.Element getElement()
```

Gets the form field element which own this binder

setElement

```
public void setElement(org.joget.apps.form.model.Element element)
```

Sets the form field element which own this binder

## Interface

### org.joget.apps.form.model.FormLoadBinder

- Under wflow-core module
- A Form Load Binder loads data from a data source for use of an element and its children in a form.

## Method Detail

### Interface Methods

load

```
public org.joget.apps.form.model.FormRowSet load(org.joget.apps.form.model.Element element, java.lang.String primaryKey, org.joget.apps.form.model.FormData formData)
```

Loads data based on a primary key.

### org.joget.apps.form.model.FormLoadElementBinder

- Under wflow-core module
- Used to mark a binder that loads data for an element e.g. form or section.
- Objects implementing this interface will be selectable in the Form Builder.
- No interface method is available in this interface

### org.joget.apps.form.model.FormLoadMultiRowElementBinder

- Under wflow-core module
- Used to mark a binder that loads multi row data for an element e.g. Grid.
- Objects implementing this interface will be selectable in the Form Builder.
- No interface method is available in this interface

### org.joget.apps.form.model.FormStoreBinder

- Under wflow-core module
- A Form Store Binder stores data from an element and its children into a data source.

## Method Detail

### Interface Methods

store

```
public org.joget.apps.form.model.FormRowSet store(org.joget.apps.form.model.Element element, org.joget.apps.form.model.FormRowSet rows, org.joget.apps.form.model.FormData formData)
```

Stores data in the data source.

### org.joget.apps.form.model.FormStoreElementBinder

- Under wflow-core module
- Used to mark a binder that stores data for an element e.g. form or section.
- Objects implementing this interface will be selectable in the Form Builder.
- No interface method is available in this interface

### org.joget.apps.form.model.FormStoreMultiRowElementBinder

- Under wflow-core module
- Used to mark a binder that store multi row data for an element e.g. Grid.
- Objects implementing this interface will be selectable in the Form Builder.
- No interface method is available in this interface

### org.joget.apps.form.model.FormLoadOptionsBinder

- Under wflow-core module
- Extends [org.joget.apps.form.model.FormLoadBinder](#).
- Used to mark a binder that returns multiple options to populate a form element e.g. selectbox, checkbox, radio, etc.
- Each FormRow object return by FormRowSet object should contains key "value" and "label".

### org.joget.apps.form.model.FormAjaxOptionsBinder

- Under wflow-core module
- This interface indicate that a Form Options Binder support retrieving options using AJAX
- Must use together with [org.joget.apps.form.model.FormLoadOptionsBinder](#).
- Each FormRow object return by FormRowSet object should contains key "value" and "label".

#### Method Detail

##### Interface Methods

useAjax

```
public boolean useAjax()
```

Use to decide this field is using AJAX to load its options or not.

loadAjaxOptions

```
public org.joget.apps.form.model.FormRowSet loadAjaxOptions(java.lang.String[] dependencyValues);
```

Retrieve options based on dependency values

### org.joget.apps.form.model.FormDataDeletableBinder

- Under wflow-core module
- This interface indicate that the form data load by Form Load Binder is deletable from Form Data table.

#### Method Detail

##### Interface Methods

getFormId

```
public java.lang.String getFormId()
```

Get Form Id of the loaded data.

getTableName

```
public java.lang.String getTableName()
```

Get table name of the loaded data.

## Plugin Properties Options

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

## Tutorials

- [Guideline for developing a plugin](#)
- [How to develop a JDBC Options Binder](#)
- [How to develop a JDBC Form Load Binder](#)
- [How to develop a JDBC Form Store Binder](#)
- [File Upload Form Element Integrated with Amazon S3](#)

## Related Community Plugins

- **Bean Shell Form Binder**  
`org.joget.apps.form.lib.BeanShellFormBinder (wflow-core)`
- **Default Form Binder**  
`org.joget.apps.form.lib.DefaultFormBinder (wflow-core)`
- **Workflow Form Binder**  
`org.joget.apps.form.lib.WorkflowFormBinder (wflow-core)`