Struts Dialogs: SelectAction

1. Overview

SelectAction is an abstract Struts **Action** that dispatches a browser event to a handler method. This class allows to process a form submission using either regular submit button or an image button. It works with regular links as well.

- Processes submit events (POST) or link events (GET).
- Handles pushbuttons, image buttons and regular links in universal fashion.
- Does not use parameter attribute of action mapping.
- Allows to set an arbitrary caption for a pushbutton.
- Button caption can be easily changed at runtime.

2. Technical Details

Unlike DispatchAction and LookupDispatchAction classes, which correlate value attribute of submit form element with name of a handler method, this class uses name attribute. This allows to display a user-friendly caption on a submit button and to change button caption without redeployment.

The subclass must define a map, which correlates event names with method names, and handler methods themselves. Events names must be different from names of action form properties. Each method must have the same signature as execute method.

By definition, an event is a request parameter, which starts from a known prefix. The prefix is specified in getInitKey method and can be redefined in a subclass. Default prefix is "DIALOG-EVENT".

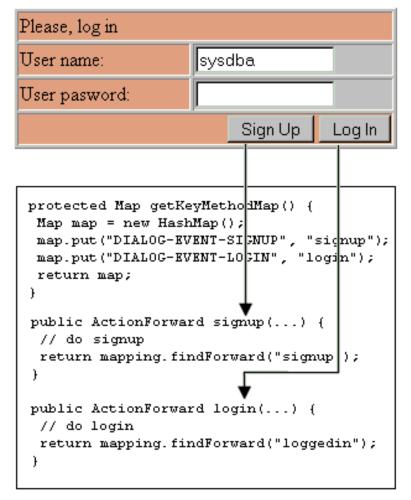
If you decide to redifine the event prefix, make sure that it does not contain periods. Also, do not use periods for specific event names. Struts may throw an exception taking the name for nested property and trying to set its value.

```
...

<input type="submit" name="DIALOG-EVENT-SIGNUP" value="Sign Up"/>

<input type="submit" name="DIALOG-EVENT-LOGIN" value="Log In"/>

...
```



SelectAction

3. Usage

To use SelectAction, subclass it, implement getKeyMethodMap method, and map specific events to method handlers. Event name must start with event prefix:

```
protected Map getKeyMethodMap() {
    Map map = new HashMap();
    map.put(getInitKey()+"-ADD", "add");
    map.put(getInitKey()+"-DELETE", "delete");
    map.put(getInitKey()+"-CREATE", "create");
    map.put(getInitKey()+"-LOGIN", "login");
    return map;
}
```

Remember that standard html:cancel/ button is implicitly mapped to cancelled method. You need to implement this method to receive cancel events.

Implement handler methods themselves, for example:

Use event names in name attribute of submit buttons, or as query paramter for regular links:

4. Notes

- Subclass does not have to redefine execute method.
- If duplicate values exist for the keys returned by getKeyMethodMap, the first one will be returned. If no corresponding key is found then an exception will be thrown.
- Cancel button must be handled by implementing standard cancelled method, if you want to use isCanceled method too.
- According to HTML specification, at most one submit element is sent from browser to the server when form is submitted. If form is submitted without explicitly clicking a button, the result depends on a browser. Either no buttons are submitted, or the first button defined on the form is submitted. You need to override unspecified method to

handle default submits.

5. Sample Code

• <u>SelectAction Example</u>