«Aikau-based development worst practices» «Make it work till friday»

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Aikau

About Aikau

What is Aikau?

Aikau is a meta-framework of custom JavaScript widgets designed to work with Alfresco. It is dependent upon the Surf framework but is not dependent upon Alfresco Share application.

The framework provides a suite of widgets that can be referenced in JSON models to build complete pages. These page models can be defined in WebScripts or remotely stored and rendered from an Alfresco Repository. This means that it possible to dynamically create and render new pages from within an application without needing to restart the server.

Release notes for the latest version of Aikau are available on GitHub.

Why are we speaking about worst practices?



Two ways to develop new widget or service:

- ✓ Accurately extend widget or service
- ✓ Copy original widget or service and change functions you need

Extend:

- ✓ If you plan to update Aikau later during the project
- ✓ When you need to add one small function, change CSS or template

Fork:

- ✓ When your customization will contain more lines of code than original widget.
- ✓ If you are not too lazy to check all your forks while updating Aikau or Share version

alfresco/renderers/Property fork sample:

```
if (this.propertyToRender)
  if (ObjectTypeUtils.isString(this.propertyToRender) &&
      ObjectTypeUtils.isObject(this.currentItem) &&
      lang.exists(this.propertyToRender, this.currentItem))
      this.renderPropertyNotFound = false;
      var value = lang.getObject(this.propertyToRender, false, this.currentItem);
      if (value == "draft") {
       this.originalRenderedValue = this.renderedValue = "This doc is not ready"
      } else if (value == "published") {
       this.originalRenderedValue = this.renderedValue = "This doc is ready"
      } else {
       this.originalRenderedValue = this.renderedValue = "THis doc is archived"
```

Two ways to retrieve data from repo:

- ✓ Use out-of-the-box APIs
- ✓ Write small repo-side webscript that provides all the data you need

✓ Slingshot API

```
"metadata": {
 3
        "repositoryId": "f092bbff-1bc2-4173-aa46-68f76bcf5432",
 4 -
        "custom": {
          "vtiServer": null
 6
        "onlineEditing": false,
        "workingCopyLabel": " (Working Copy)",
 9 +
        "parent": {
10 -
          "permissions": {
             "user": {},
11
             "roles": []
12
13
14
15
      "item": {
16 -
17 -
        "node": {
          "isLink": false,
18
19 -
          "aspects": [
             "cm:versionable"
20
21
22
          "isFavourite": false,
          "likes": {
23 -
24
             "isLiked": false,
            "totalLikes": 0
25
26
27
          "isContainer": false.
28
          "type": "cm:content",
29
          "encoding": "UTF-8",
          "version": "1.0",
30
31
          "webdavUrl": "/webdav/102-fz 2015-1.pdf",
          "contentURL": "/slingshot/node/content/workspace/SpacesStore/315c9d8c-b308-41fe
32
    -872a-b915ffcc1f09/102-fz 2015-1.pdf",
33
          "size": 234157.
```

√ FormService

```
"enctype": "multipart/form-data",
 3
      "method": "post",
      "data": {
        "prop_foei_TypeND": "Type A",
        "prop foei NameND": "Name B",
 6
        "prop foei EditionND": "Edition C",
 8
        "prop foei OrgND": "Organization D",
        "prop foei statusND": "Status E",
 9
10
        "assoc foei DocND": "workspace://SpacesStore/315c9d8c-b308-41fe-872a-b915ffcc1f09",
        "assoc foei LinkND": "workspace://SpacesStore/75ead0d2-bf07-433c-a49b-b4caf15457ce"
11
12
13
14 -
      "constraints": [
```

✓ Custom API

```
1 -
      "nodeRef": "workspace://SpacesStore/75ead0d2-bf07-433c-a49b-b4caf15457ce",
 3 →
      "permissions": {
        "userAccess": {
 4 -
          "edit": true,
 5
          "create": true.
          "delete": true
 8
      "id": "75ead0d2-bf07-433c-a49b-b4caf15457ce",
      "type": "foei:ND type",
12 -
      "properties": {
        "foei:TypeND": "Type A",
        "foei:NameND": "Name B".
        "foei:EditionND": "Edition C",
16
        "foei:OrgND": "Organization D",
        "foei:statusND": "Status E",
18 -
        "foei:DocND": [
19 -
20
            "nodeRef": "workspace://SpacesStore/315c9d8c-b308-41fe-872a-b915ffcc1f09",
            "type": "cm:content".
22
            "value": "102-fz 2015-1.pdf"
23
24
25 -
        "foei:LinkND": [
26 -
            "nodeRef": "workspace://SpacesStore/9d2b649a-b84b-49d2-aeca-b245a27b7ffd",
            "type": "foei:ND type",
            "value": "System F"
30
31
33
```

Worst practice #3: Share tier vs browser

- ✓ Share tier
- ✓ Web-browser tier



Worst practice #3: Share tier vs browser

✓ Share tier: your lovely Share without logs and any way to debug it

```
if (page.url.templateArgs.store type != null &&
 page.url.templateArgs.store id != null &&
 page.url.templateArgs.id != null) {
 var nodeRef = page.url.templateArgs.store type + "://" + page.url.templateArgs.store id + "/" + page.url.templateArgs.id;
 node = null:
 var result = remote.connect("alfresco").get("/api/custom/case?caseRootRef=" + nodeRef);
 var jsonNode = JSON.parse(result);
 if ( jsonNode.status == null || jsonNode.status.code != 500) {
   widgets = getHeaderModel(msg.get("header.case.label") + " " + jsonNode.properties["custom:StringNumber"]);
   var documents = getDocumentsList();
   var tables = [];
   for each(var table in jsonNode.meta) {
     if ( table.type == "custom:table") {
       var property = {
         name: "alfresco/lists/views/layouts/Row",
         config: {
           currentItem: table.
           zebraStriping: true,
```

Worst practice #3: Share tier vs browser

✓ Browser tier: Fast client-side execution, but sometimes you meet dojo that you don't know

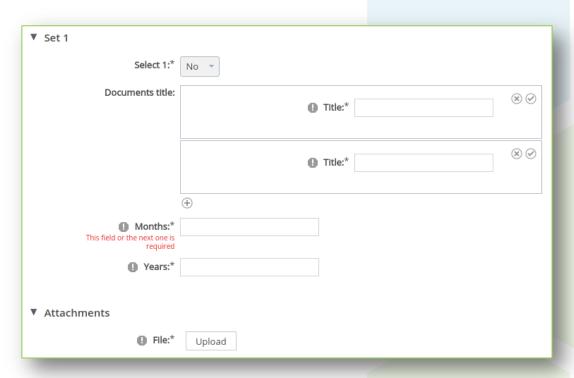
```
onRetrieveSingleDocumentRequest: function mgs services caseService onRetrieveSingleDocumentRequest(payload) {
   var nodeRef = NodeUtils.processNodeRef(payload.nodeRef),
   var params = "?noCache=" + new Date().getTime();
   var alfTopic = payload.alfResponseTopic || topics.GET DOCUMENT;
   var url = AlfConstants.PROXY URI + "/api/custom/case?caseRootRef=" + nodeRef + params;
   var config = {
      alfTopic: alfTopic,
     url: url,
     method: "GET",
      callbackScope: this,
     originalPayload: payload
   this.serviceXhr(config);
```

✓ It's not ready (AKU-1014), but helps sometimes

✓ Even if you don't render form with it

Create form	
① Name:*	
① Address:*	
Phone:*	
E-mail:*	
Save Cancel	

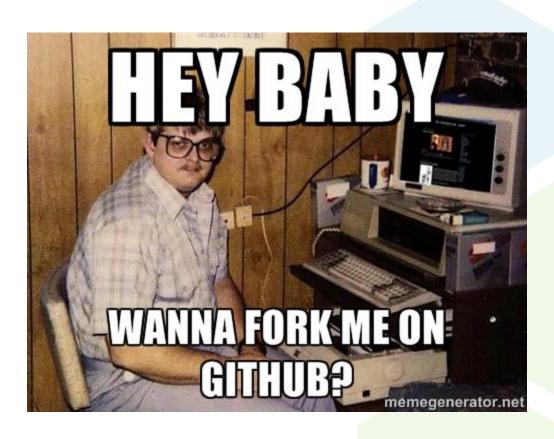
✓ Even if you don't render form with it



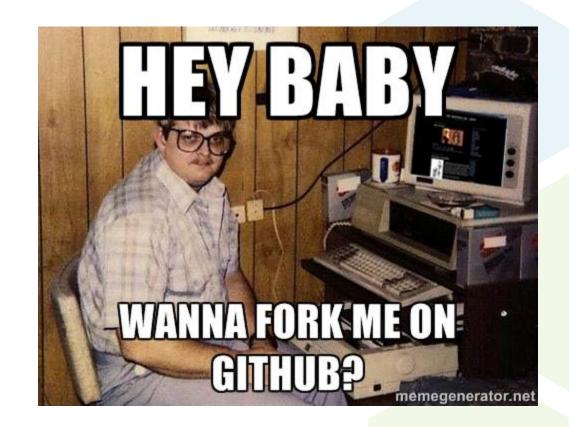
✓ Even if you don't render form with it

```
(payload.alf destination) {
 var url = AlfConstants.PROXY_URI + "api/type/" + encodeURIComponent(payload.type) + "/formprocessor";
 var alfTopic = "ALF DOCLIST RELOAD DATA";
var data = {
   "alf destination": "workspace://SpacesStore/e092bbff-1bc2-4173-aa46-68f76bcf5432",
   "type": payload.itemId,
   "urlType": "FULL",
   "prop cm name": "Name",
   "prop cm title": "Title",
   "assoc foei linkND added": "workspace://SpacesStore/75ead0d2-bf07-433c-a49b-b4caf15457ce"
 var config = {
     alfTopic: alfTopic,
     url: url,
     data: data,
     method: "POST",
     callbackScope: this
 this.serviceXhr(config);
```

Worst practice #5: Fork Aikau



Worst practice #5: Fork Aikau





Summary





Speaker contacts

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