

PowerEnJoy Integration Test Plan Document

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PowerEnjoy I.T.P.D.
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# 1 IterateSectionWidget

## 1.1 Functional role

This class extends "ModelScreeWidget" to provide a renderer for a widget as HTML.

Specifically it render a widget containing multiple "sections", and iterate over those sections to render them, keeping count of pagination and position in the "page".

It also inherit the ".accept(ModelWidgetVisitor visitor)" from the "Model-Widget" class, which implement the "visitor" pattern to traverse the tree of widgets and handle them different ways, according to their class type: a .accept(visitor) method in the visited class calls the .visit(this) in the visitor class, which should have a .visit(class-type) for each class-type to visit.

## 1.2 Application of the checklist

#### Class attributes

2. line 56

Class name should be nouns, in mixed case, with the first letter of each word in capitalized. 'Iterate' is a verb, thus class name should be changed to 'SectionWidgetIterator'.

7. line 58

```
public static final String module =
   IterateSectionWidget.class.getName();
```

Constant declared without respecting UPPERCASE naming convention.

18. lines \*

Lack of comment describing the purpose of the code.

#### Class constructor

- 13. lines 70, 87, 88, 95, 99, 101 line exceed recommended 80 characters length.
- 14. lines 87, 99 line exceed 120 characters length.
- 18. lines \*

Lack of comment describing the purpose of the code.

23. The javadoc is not used as shows at this link: https://ci.apache.org/projects/ofbiz/site/javadocs/org/apache/ofbiz/widget/model/IterateSectionWidget/mod

```
25. line 55
   @SuppressWarnings("serial")
   Between class documentation comment and class statement must not be
   any code.
     - line 77
33.
       String entryName = iterateSectionElement.
           getAttribute("entry");
       must be moved to the top
     - line 82
       String keyName = iterateSectionElement.
           getAttribute("key");
       must be moved to the top
     - line 89
       int viewSize = DEFAULT_PAGE_SIZE;
       must be moved to the top
     - line 90
       String viewSizeStr = iterateSectionElement.
           getAttribute("view-size");
       must be moved to the top
     - line 95
       List <? extends Element> childElementList =
           UtilXml.childElementList(iterateSectionElement
           );
       must be moved to the top
39.
     - line 95
       List <? extends Element> childElementList =
           Util Xml.\,child Element List\,(\,iterate Section Element
           );
       must be declared using a constructor.
```

## .getSectionList

18. lines \*

Lack of comment describing the purpose of the code.

## $. {\bf render Widget String}\\$

```
12. line 223-227
     * @return
     */
     public String getPaginateTarget(Map<String, Object>
         context) {
   should separate sections of file though blank lines and optional comments.
13. lines 113, 122, 129, 134, 150-152, 157, 193, 197, 208, 210-211
   line exceed recommended 80 characters length.
14. lines 113, 122
   line exceed 120 characters length.
18. lines *
   Lack of comment describing the purpose of the code.
27. The method is too long (90 lines), it should be reduced.
     - line 132
33.
        List <?> theList = null;
        must be moved to the top
     - line 146
        int startPageNumber = WidgetWorker.
            getPaginatorNumber(context);
        must be moved to the top
      - line 171
        Iterator <?> iter = theList.iterator();
        must be moved to the top
      - line 172
        int itemIndex = -1;
        must be moved to the top
      - line 173
        int iterateIndex = 0;
        must be moved to the top
      - line 179
```

```
Object item = iter.next();
must be moved to the top of the "while" block
```

39. – line 132

```
List <?> the List = null;
```

must be declared using a constructor.

40. line 128

```
if (obj = null)
```

must be replaced using

```
if (obj.equals(null))
```

42. line 129

```
Debug.logError(''No object found for listName:''+
listNameExdr.toString(), module);
```

the description of the log could be more precise because in order to make more comprehensible the problem.

42. line 142.

```
Debug.logError(''Object not list or map type'',
    module);
```

the description of the log could be more precise because in order to make more comprehensible the problem.

42. line 218

```
Debug.logError(e, module);
```

the description of the log could be more precise because in order to make more comprehensible the problem.

## .getPaginateTarget

18. lines \*

Lack of comment describing the purpose of the code.

## .getPaginate

13. lines 232-233

line exceed recommended 80 characters length.

## .getViewSize

18. lines \*

Lack of comment describing the purpose of the code.

#### .renderNextPrev

```
11. line 318-319
   if (linkText.indexOf("?") < 0)</pre>
                                        linkText.append("?");
   else linkText.append("&");
   must be replaced using
   if (linkText.indexOf("?") < 0)</pre>
        linkText.append("?");
   } else {
        linkText.append("&");
11. line 340-341
   if (linkText.indexOf("?") < 0)
                                        linkText.append("?");
   else linkText.append("&");
   must be replaced using
   if (linkText.indexOf("?") < 0)</pre>
        linkText.append("?");
   } else {
        linkText.append("&");
   }
13. lines 243, 249, 250, 257, 300, 305-306, 308-309, 311, 320, 324, 327-329,
   333-335, 345, 348-350
   line exceed recommended 80 characters length.
14. lines 243, 324, 328, 333-334, 345
   line exceed 120 characters length.
18. lines *
   Lack of comment describing the purpose of the code.
19. line 282-296
   /*
   int highIndex = -1;
   try  {
        highIndex = modelForm.getHighIndex();
```

 $}$  catch (Exception e) {

```
\label{eq:highIndex} \begin{array}{l} highIndex = 0;\\ \\ int \ lowIndex = -1;\\ try \ \{\\ \ lowIndex = modelForm.getLowIndex();\\ \\ \} \ catch \ (Exception \ e) \ \{\\ \ lowIndex = 0;\\ \\ \}\\ */ \end{array}
```

Code commented out without indication of the reason nor of the date by which remove the comment.

19. line 320

```
//if (queryString != null &&! queryString.equals(" null")) linkText += queryString + "&";
```

Code commented out without indication of the reason nor of the date by which remove the comment.

27. The method is too long (100 lines), it should be reduced.

```
33.
    - line 249
       Map<String, Object> inputFields = UtilGenerics.
          checkMap(context.get("requestParameters"));
       must be moved to the top
     - line 250
       Map<String, Object> queryStringMap = UtilGenerics
           .toMap(context.get("queryStringMap"));
       must be moved to the top
     - line 255
       String queryString = UtilHttp.urlEncodeArgs(
           inputFields);
       must be moved to the top
     - line 256
       int paginatorNumber = WidgetWorker.
           getPaginatorNumber(context);
       must be moved to the top
     - line 267
       int viewIndex = -1;
```

```
must be moved to the top
- line 274
 int viewSize = -1;
 must be moved to the top
- line 298
  int lowIndex = viewIndex * viewSize;
 must be moved to the top
- line 299
 int highIndex = (viewIndex + 1) * viewSize;
 must be moved to the top
- line 305
  HttpServletRequest request = (HttpServletRequest)
       context.get("request");
 must be moved to the top
- line 306
  HttpServletResponse response = (
     HttpServletResponse) context.get("response");
 must be moved to the top
- line 308
  ServletContext ctx = (ServletContext) request.
      getAttribute("servletContext");
 must be moved to the top
- line 309
  RequestHandler rh = (RequestHandler) ctx.
     getAttribute("_REQUEST_HANDLER_");
 must be moved to the top
- line 317
  StringBuilder linkText = new StringBuilder (
     targetService);
 must be moved to the top of the "if" block
- line 328
  String previous = UtilProperties.getMessage("
     CommonUiLabels", "CommonPrevious", (Locale)
     context.get("locale"));
```

```
must be moved to the top of the "if" block
       - line 339
         StringBuilder linkText = new StringBuilder (
             targetService);
         must be moved to the top of the "if" block
       - line 349
         String next = UtilProperties.getMessage("
             CommonUiLabels", "CommonNext", (Locale)
             context.get("locale"));
         must be moved to the top of the "if" block
 40. line 245
     if (targetService = = null)
     must be replaced using
     if (targetService.equals(null))
 42. line 263
      Debug.logWarning(''TargetService is empty.'', module
     the description of the log could be more precise because in order to make
     more comprehensible the problem.
.accept
 18. lines *
    Lack of comment describing the purpose of the code.
.getListNameExdr
 18. lines *
     Lack of comment describing the purpose of the code.
```

### .getEntryNameExdr

18. lines \*

Lack of comment describing the purpose of the code.

## .getKeyNameExdr

18. lines \*

Lack of comment describing the purpose of the code.

## .getPaginateTarget

18. lines \*

Lack of comment describing the purpose of the code.

## .getPaginate

18. lines \*

Lack of comment describing the purpose of the code.

## 2 OfbizCatalogAltUrlTransform

## 2.1 Functional role

This class implements the "freemarker.template.TemplateTransformModel" interface, thus is used to transform part of the output of a freemarker template before serving the output to the user. In this specific case transforms URLs of catalog items into complete URLs according to the corrent HTTPServletRequest and other environment variables.

It returns a writer through ".getWriter(final Writer out, final Map args)" that according to environment variables and the argument passed in "args" write to writer "out" the input received, transforming incomplete catalog URLs into correct ones.

## 2.2 Application of the checklist

#### Class attributes

7. line 52

```
public final static String module =
   OfbizCatalogUrlTransform.class.getName();
```

Constant declared without respecting UPPERCASE naming convention.

13. line 52

```
public final static String module =
   OfbizCatalogUrlTransform.class.getName();
```

line exceed recommended 80 characters length.

18. lines \*

Lack of comment describing the purpose of the code.

- 23. The javadoc is not used as shows at this link: https://ci.apache.org/projects/ofbiz/site/javadocs/org/apache/ofbiz/product/category/ftl/OfbizCatalog
- 25. line 50

There is no class comment. It must be added.

```
.getStringArg
  2. line 55-64
    Object o = args.get(key);
    if (o instanceof SimpleScalar) {
         return ((SimpleScalar) o).getAsString();
    } else if (o instanceof StringModel) {
         return ((StringModel) o).getAsString();
    } else if (o instanceof SimpleNumber) {
         return ((SimpleNumber) o).getAsNumber().toString
             ();
    } else if (o instanceof NumberModel) {
         return ((NumberModel) o).getAsNumber().toString()
    }
    single character name for non 'throwaway' variable 'o'.
 18. lines *
    Lack of comment describing the purpose of the code.
.checkArg
  2. line 55-64
    Object o = args.get(key);
    if (o instanceof SimpleScalar) {
         SimpleScalar s = (SimpleScalar) o;
         return "true".equalsIgnoreCase(s.getAsString());
    }
    single character name for non 'throwaway' variables 'o' and 's'.
    Lack of comment describing the purpose of the code.
.getWriter
 13. lines 91, 105-106, 116, 119, 121, 125, 131-132, 135-137, 139-141
```

- line exceed recommended 80 characters length.
- 14. lines 119, 121, 135-137, 139-141 line exceed 120 characters length.
- 18. lines \* Lack of comment describing the purpose of the code.

```
various. line 143
       out.write(url.toString());
```

url is declared as String and as the .to String() javadoc for String type suggests

 $String\ java.lang.String.toString()$ 

This object (which is already a string!) is itself returned.

# 3 Effort Spent

- Alessandro Erba  $\approx 18 \mathrm{h}$
- Filippo Leveni $\approx$ 18h
- $\bullet\,$ Luca Lodi $\approx 18 h$