

Wiki Automation

Enterprise MediaWiki Conference (25-27 May 2016) Peter J. Woudsma, program chair

Disclaimer

This project is under development.

While first results look very promising, and while we have the ambition to roll out this methodology within months, it is possible that the final version is significantly different from what you see next.

Also, credits go to my colleague Tomasz, who is the great mind to make this all work.

Today : all wikis are significantly different



Challenge:

Separate teams maintaining different Wikis, using different styles, building different template libraries (features), documenting the code in different way, makes it difficult:

- to understand the data model/code across Wikis
- to share features/code across the Wikis
- to share work/support each other

Challenge:

Each Wiki was developed over years, new features were being added along the way, but very often not in all places

• to ensure consistency within one Wiki

Challenge:

Requests for new Wikis (CP Wiki)

- to allocate new resources
 Requests for new Wikis to be maintained by external users (IP Cat)
- to educate and support external users

Conclusion:

In the long run this situation is **unsustainable**

Solution:

Automate the way Wikis code is developed and provide a common way to define and present the Data Model (Concepts) behind each Wiki.

(Model Driven Architecture approach)

Provide a **Wiki Automation Tool** to:

- define single common code base (Wiki Template Library) to be shared by all Wikis
- to generate ALL code used to manipulate (enter, display) the Concepts (Forms, Templates, Graphs, Concept Definition pages, etc.) based on defined Data Models
 - Automation shall allow us to use any available features in all Wikis
 - Automation shall enforce general common styles across Wikis, allowing for customizations required in specific cases



Model

<model name="NISP" namespace="nisp" version="0.5"> <concepts> <concept name="ACO Directive" plural="ACO Directives" type="Static" parent="Reference"> <description>An "ACO Directive" is an official <structure> <property name="Reference code" /> <property name="Title" mandatory="true"/> <property name="Description" mandatory="true"/> <property name="Publisher" /> </structure> <view type="table"> </concept>

</concepts> </model>

Generated Concept Template Page

__NOCACHE___NOTOC___NOEDITSECTION__ {| class="wikitable" |-!Code |{{{code}}}}{{#if:{{{code}}}}}{{#if:{{{code}}}}}}{{ |-!Title |{{{title}}}{{#if:{{{title}}}}}{{#if:{{{title}}}}}{{}}}}{{}}}

!Description |{{{description}}} {{

!Publisher [[[Publisher::Allied Command Operations (ACO)]]

|-|}

==Related Information==

{{#set:UUID={{{uuid|null}}}}

===Actors===

{{#ifeq:{{#ask:[[Category:Actors]][[Is referring to::{{PAGENAME}}]]|format=count}}|0|"No Actors."| {{#arraymap:{{#ask:[[Category:Actors]][[Is referring to::{{PAGENAME}}]]|sep=;|link=none}}|;|@P| • [[@P]]

:{{#arraydefine:xslice1|{{#ask:[[@P]]|mainlabel=-

;}

Future situation: consistent and coherent



Anticipated possibilities:

- To automate development of Import/Export scripts (via Model document)
- To automate development of Reports/Perspectives (via Model document)
- To integrate with specialized tools to generate Reports (Word/PowerPoint/)
- To integrate with CASE tools via automated export to XMI files
- To implement Search function (based on the Data Model)
- To quickly define new Wikis

