Wiki Automation

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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**
Define (no coding required, just XML)

Model Definition
- Data structure
- Style Preferences

Read

Implement through

Generated & Deployed

Wiki Coordinator

Platform Coordinator

Wiki Automation Tool

Macros

Features Styles

Wiki Pages

Model Description

For every Property

Property Definition

For every Concept

Concept Definition

Category

Form

Template

Graph

Template Library
An "ACO Directive" is an official document with the following properties:

- **Reference code**
- **Title** (mandatory)
- **Description** (mandatory)
- **Publisher**

### Example Table

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Publisher</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>[[Allied Command Operations (ACO)]]</td>
</tr>
</tbody>
</table>

### Related Information

#### Actors

- No Actors.
Future situation: consistent and coherent

Projects

CWIX Wiki
EM Wiki
Tidepedia
THF Wiki

Activity

Content Management

Data Reports

Data Reports

Data Reports

Data Reports

Platform

Management

Core Services (including MediaWiki installation)

Data Model Management

Model Definition

Model Definition

Model Definition

Model Definition

Platform Management

Generated Code

Generated Code

Generated Code

Generated Code

Infrastructure (hardware + OS)

Generated Code

Template Library

Wiki Automation Tool
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