**Hidden Text**

Hidden text is used in this template for descriptions how to use the template and for template revision history (end of the document).

Check or uncheck “Hidden text” under File>Options>Display to see or hide the hidden text on the screen when editing. Check or uncheck “Hidden text” under Files>Options> Display to print or omit the hidden text when printing the document. Delete this text and the template history in the end of the document.

Architecture Description

Novel Architecture Document

**The scope of the skeleton:**

This skeleton gives the general disposition of an Architecture Description.

Use Enterprise Architect for modeling and Scribe for report generation.

Guidelines to read and use:

2PAA105192 800xA System Software Architecture Modeling

3BSE056166 Working with EA and Scribe

Note that chapters and numbering of them might differ between the Scribe document and the generated document. The reason is that a chapter in the Scribe document can result in several chapters in the generated document or no chapter at all. The outcome depends on the modeling used as input for the generation.

Terms used are defined in 2PAA105192 800xA System Architecture Modeling.

SUMMARY

This document describes the novel project.

Fill in a summary of the content of the document. The chapter is mandatory.

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# Introduction

This document describes the architecture for Novel project. The scope of this document is to describe architecture.

The chapter is mandatory.

Describe the purpose of the document. Specify the intended audience.

This chapter can often be more than just a few lines. This is the place to introduce the reader. By putting the reader in the right context the rest of the document becomes more understandable.

If relevant, use pictures and tables to explain the scope of the architecture.

It can be helpful for understanding to add subchapters, preferable this is done after the standard subchapters.

The chapter is mandatory.

Provide a list of the input documents to the architecture. Input documents are typically requirement specifications.

Documents added in a diagram ”Scope: Input” in the Architecture Description package are inserted during generation. The documents must have a tagged value “Document Number” and “Revision Index”. Title is primarily extracted from a tagged value “Document Title” otherwise from name on document element/package.

Input documents can be referred in text by using [document identity]. During generation these references are changed into dynamic cross-references. Note, this also works for text coming from the modeling during generation (text in diagram images is an exception)

# Requirements

The project requires some package of python: requests, os, string, bs4(BeautifulSoup), lxml.

Using pip to install these packages:

Pip install requests --index <https://pypi.python.org/simple> --default-timeout=10000

# Engineering System

## Introduction

This project open an novel’s menu web address, store it in local folder; then parse the xml file, get articles’ web address information.

At this moment, we get an menu web page, and all the articles web address which are contained in the menu web page. So, we can use “requests” to get all the articles, then store them in local folder.

Then we need to connect menu page and articles together. When we get menu page and hundreds of articles, they are very difficult for user to access. We need to update the menu page in order to make sure menu page can display all the article links, all the links should be able to navigate to right article xml file. And the article can navigate to menu page and next/previous page.

## Implement

This project is started with an address of menu page, such as:

<https://www.qb5.tw/shu/114408.html>

### get the menu page and articles address

We get the menu page first, then we can get information about what are the articles contained in this xml. For example, the format is as below:

<a href="[**/shu/114408/46100885.html**](https://www.qb5.tw/shu/114408/46100885.html)">第201章</a>

In this case, the “[**/shu/114408/46100885.html**](https://www.qb5.tw/shu/114408/46100885.html)” is the article relative address, the full path should be  [**https://www.qb5.tw/htm\_data/2002/7/3815133.html**](%20https://www.qb5.tw/htm_data/2002/7/3815133.html)

With the prefix ”**https://www.qb5.tw”.**

So, using the above rules, we get all the full path for all the articles, then we send request

for each page.

### Update the menu page and articles

At this moment, we get menu page and all the articles, but the hyperlink in all these pages are link to internet ones, we need to update the xml files’ content, make them can navigate to each other without accessing the internet.

a, make menu pages can navigate to articles (TBD)

update articles’ hyperlink in index pages, using the local path, then we can navigate to local article xml file with press hyperlink in index page.

add shortcut key, such as when press left/right button, it will navigate to previous/next page.

b, update article pages’ hyperlink (TBD)

update articles’ xml file, using the local path, then we can navigate to index or previous/next page.

## Source code



## To be implemented

Currently, it is not finished, just can get index pages, all the articles’ page.

The navigation implements are not started.

**REVISION:**

|  |  |  |  |
| --- | --- | --- | --- |
| Rev.ind. | Page (P)  Chapt. (C) | Description | Date  Dept./Name |
| -d0 | All | Draft Version | 2020-02-16 /Tom |