

PukiWiki-Java Connector, a Simple API for Saving Data of Java Programs on a Wiki

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ABSTRACT

Experimental implementation of SDK for Java programs, *PukiWiki-Java Connector*, which makes an illusion that wiki pages as persistent data store, is shown. A Java program of them can be running on a wiki page and it can save its data on the page. The Java program consists of PukiWiki which is a popular wiki in Japan, the plug-in which starts up Java Applets. A Java Applet with default access privilege cannot store its data at the local host. We have constructed the API for the applets to ease data persistent at a remote host. We also combined the API and the wiki system by introducing a wiki plugin and tags for starting up Java Applets. Applet generated persistent data resides in wiki texts side by side. We have successfully ported useful programs such as a simple text editor, a simple music editor, a simple draw program and programming environments in a PukiWiki system using this connector.

Categories and Subject Descriptors

H.3.5 [Online Information]: Web-based services;
H.4.3[Communication Applications]; D.2.6 [Programming Environments];

General Terms

Documentation, Design, Experimentation, Languages.

Keywords

Java Applets, Data Store API, Collaboration, Social Coding

1. INTRODUCTION

PukiWiki is commonly used in Japan as one of the wiki software. We have constructed the API of Applets for easy and unified data input and output at a remote host. We also have combined the API and the PukiWiki system by introducing a wiki tag for starting up Java Applets. We call the API as *PukiWiki-Java Connector*. It can be a means for making the wiki more flexible and extensible.

2. PUKIWIKI-JAVA CONNECTOR

PukiWiki-Java Connector makes us easy to embed many of Java Programs in the PukiWiki. We have embedded programs such like a simple text editor, a simple music editor, a simple draw program

and programming environments in PukiWiki using the API. A term for embedding was one day to three days. Figure 1 shows the usage of a programming environment which is embedded in a PukiWiki page. Figure 2 shows the wiki tag and data of the programming environment. The API adopts the factory method pattern to make easy to embed a Java program into PukiWiki.

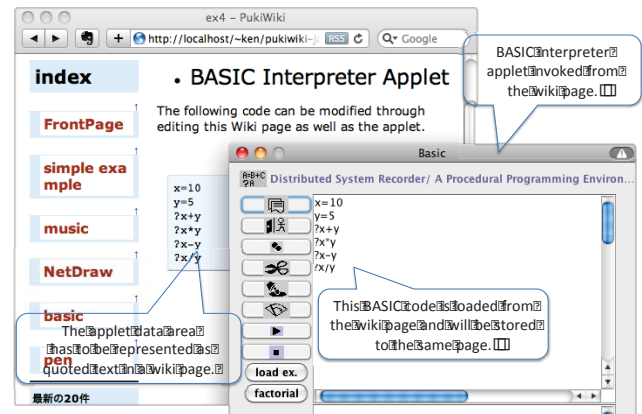


Figure 1. BASIC Interpreter Applet in a PukiWiki page.



Figure 2. Editing mode of the wiki page in Figure 1.

3. RELATED WORK

AnyWikiDraw[1] is a draw program which can save its data on a wiki page. It is a specialized system for drawing.

4. REFERENCES

- [1] AnyWikiDraw,
<http://www.randelshofer.ch/anywikidraw/index.html>,
As of April 3, 2011.

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WikiSym '11, Oct 03-05 2011, Mountain View, CA, USA
ACM 978-1-4503-0909-7/11/10.