Project Silpa

Python Based Indian Language Processing Framework
Overview

- Project Introduction
- Architecture

SILPA — Swathanthra Indian Language Processing Applications
What is Silpa Project?

- A web framework for hosting Indian Language Processing applications.
- JSON-RPC based webservice for using the Silpa services for other applications
- A Python Library for Indian Language Processing

A Python application with all the above mentioned capabilities.
Architecture

Silpa

- Common Utils
- Settings
- Templating
- URL Mapping
- Json Encoder/Decoder
- RPC Handler
- Action Dispatcher
- Wsgi Handler

Modules
As a Python Library

```python
>>> from silpa.modules import module1

>>> module1.method1(args)
```
from jsonrpc import ServiceProxy
service = ServiceProxy("http://smc.org.in/silpa/JSONRPC")
print service.modules.Module1.method1(args)

Raw JSON RPC request:
{"method":"modules.method1", "params":['args1','args2'], 'id':'1.0'}

Raw JSON RPC Response
{"error":null,"result":"methodreturnvalue","id":"1.0"}
A web application

- [http://smc.org.in/silpa](http://smc.org.in/silpa)
- WSGI based python web application
- PyMeld is used for Templating
- Provides web interface for each hosted modules
- Web interface uses javascript implementation of JSON-RPC calls
Hosted Modules

- Transliterator
- Encoding Converter
- Calendars
- Hyphenator
- Syllabalisier
- Spellcheck
- Dictionary
- ...

WSGI based python web application

PyMeld is used for Templating

Provides web interface for each hosted modules

Web interface uses javascript implementation of JSON-RPC calls

http://smc.org.in/silpa
Thank You!

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