



Our mission

- Import Swikis into SmallWiki2
- Especially the SCG-Wiki (with more than 600 pages and a lot of uploaded files)



How we proceed

1. Open a `HTTPSocket` to the first page of the swiki we want to import
2. Get the `.edit` page
3. Extract the content of the textarea
4. Create a `SW2Page` with the extracted content
5. Insert it into `SmallWiki2`
6. Extract all links of the first page of the swiki
7. Follow the links and continue with step 2 (recursion)



Features of Smallwiki2-Importer

- Two possibilities to import a swiki: Flat or as Tree
- You can limit the size of attached files
- Automatic detection and import of swiki version 1.3 and 1.4
- Implemented breadth-first search for the tree-import
- Can import the SCG-Wiki without crashes 😊



A glance at our design

SW2ConnectionProvider: establish a HTTP-Connection to the swiki and get the content.

SW2ImportCommand: gather information from the user (url, max. size of files, import strategy)

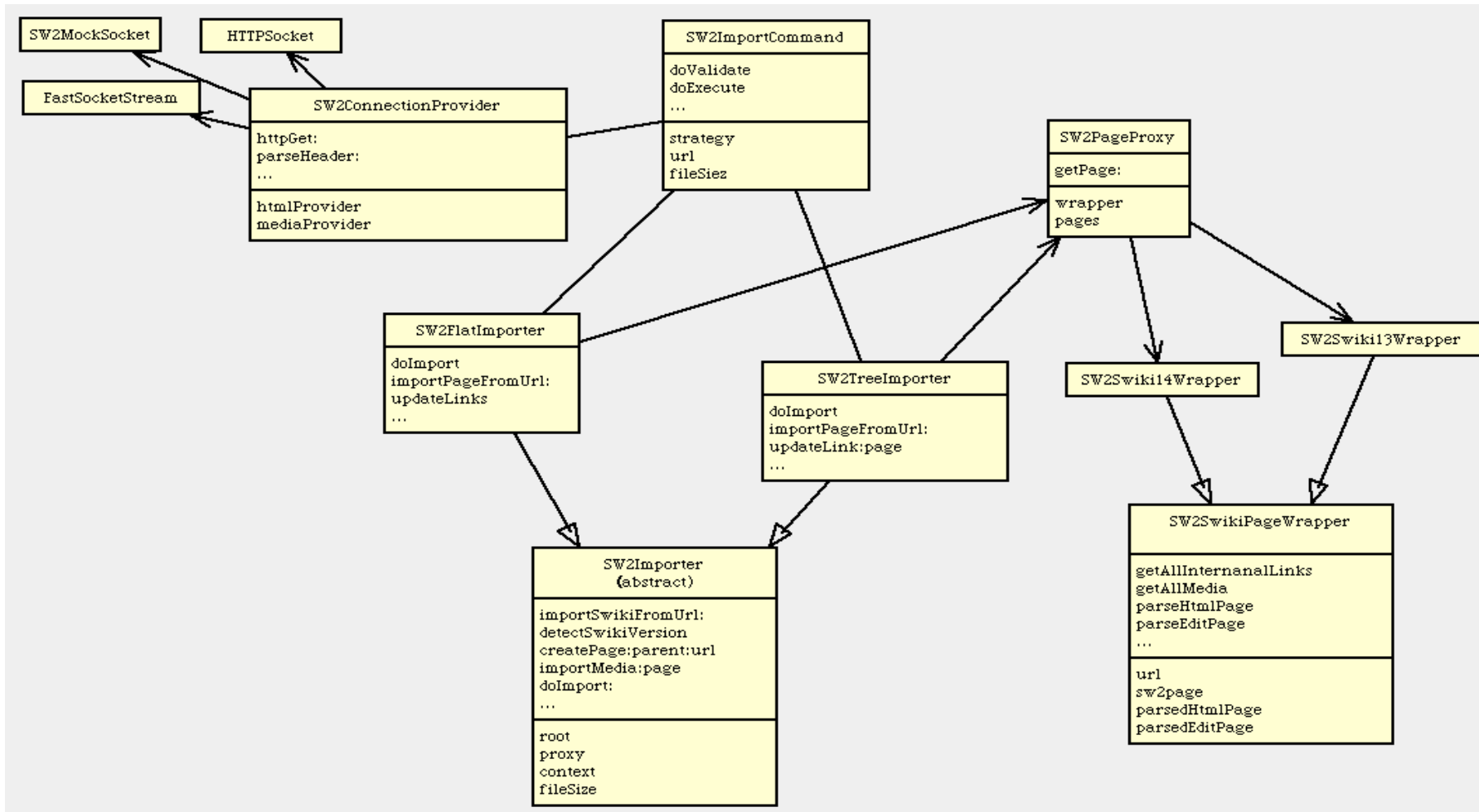
SW2Importer: „The organisator“ of the import. Has two subclasses depending of the way to import the swiki-pages: SW2FlatImporter, SW2TreeImporter

SW2SwikiPageWrapper: every Swiki-page is wrapped, contains url, parsedHtmlPage, parsedEditPage and sw2Page.

SW2PageProxy: ensures that there exists only one SwikiPageWrapper for every swiki-page



An UML





Problems we face during implementation

Problem: It is difficult to test an application that works with HTML-Files.

Solution: Introduced an Mocksocket, that contains Swiki-pages

Problem: Huge swikis including plenty of uploaded files could lead to a crash of the image.

Solution: Introduce a limitation of the file-size using FastSocketStream

Problem: SmallWiki2 do not know anchors.

Solution: Reparsing the sites

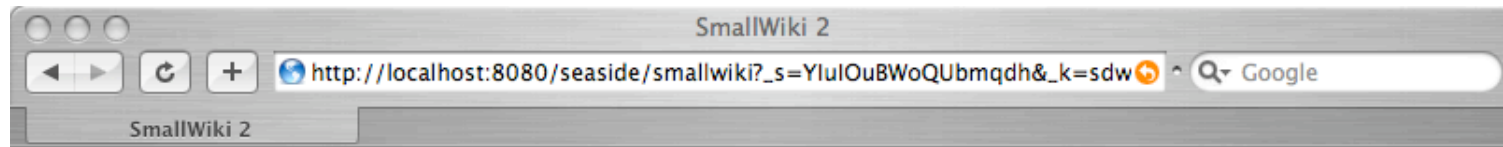
Problem: Some sites were locked

Solution: Parse directly without using the .edit-page



Design and Code-quality

- Excessive testing
- Objects with a clear responsibility and a proper interface for clients
- Short methods fulfilling a single task
- Using patterns (Singleton, Template Methods)
- Having useful names for classes and methods



SmallWiki 2

[View](#) [Edit](#) [Login](#)

Commands

- Add
- Copy
- Edit
- Login
- View
- Inplace Edit
- Remove
- Import Swiki**

Import Swiki

Swiki URL:*

Max. size of uploaded files (in KB):*

Kind of Import:*

- flat
 hierarchically

Tree

- SmallWiki 2
 - +Environment
 - +Imported Swiki
 - +Information
 - +SCG Wiki

Tools

- Import Swiki