

Software Component Technology Group Master Project

Kangoo API for web-based applications

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Introduction Kangoo is a global, distributed storage system for the Internet. It harnesses idle disk space and bandwidth of participating computers to provide its users with a free, unlimited, personal online storage. A user can securely store his private files online, so that he can conveniently access them from anywhere at any time. More importantly, he can also use it to share his files such as photos, digital videos, music, or documents with his friends. Furthermore, he can even publish them to a global audience. He can search and browse this public area for whatever others have published.

The goal of this master's project is to implement a web API for Kangoo. A developer can use this API to build web-based applications that access the data stored in Kangoo.

The main parts of this project are:

1. implementation of an API able to access public data contained in the Kangoo web servers. The API should also be designed for future extensions such as the ability to handle the private data contained in Kangoo.
2. implement the API in Java using JML for specifying contracts for the code verification
3. development of a simple client web site that demonstrates the use of the API
4. development of a client wrapper using Java
5. exhaustive documentation about the API that can be used by the developers that want to use it

Possible extensions of this project are:

1. extend the API to support the user's private data contained in Kangoo
2. implementation of a RSS service

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