

The Switchyard

Handle Your Software In A Smart Way

Functional Requirements

This software project has three main goals:

- To provide a tool for preparing software applications into a suitable distribution form. Initially, this means checking the application out of a Subversion repository and building a clean Debian package. More techniques can be required later; to use another sources as well as to produce different outputs, or uploading the result somewhere.
- To work an extensible testing suit in such tool, to provide a platform, where various quality checks can be run. The intention is to make adding a test easy for any developer or a system administrator.
- To produce exhaustive reports, concerning the package building process and the quality checks run.

Non-Functional Requirements

- The main programming language of this project is Python (version 2.4+). Where reasonable (i.e. the tests), other languages can be used (say Bash).
- Existing Debian package building tools are used wherever possible.
- Command-line interface is the primary control. Reports can be sent also via e-mail.

Additional Features

- Uploading the deb packages into apt repository
- Quality checks print-out
- Automatic run
- PGP signing
- Distributed build

Recommendations

- Twisted framework
- Web interface