

[P2PBrowser group] Code Architechture

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1 Introduction

2 Eternal Webpages diagrams

The Eternal Webpages package is a Proof Of Concept package no longer undergoing active development. Its main purpose is to download and bundle resources referenced by a webpage in such a way that they can be fetched offline. To accomplish this, the webbrowser has 2 modes for viewing websites: one by browsing the internet and one by downloading P2P cached copies of websites (called internet viewmode and swarm viewmode respectively). This is shown in Figure 1. The package is referenced from the main Tribler projects web browser for every resource it ecounters while loading a webpage. This is shown in Figure 2. The full class diagram of the package is included in Figure 3.

3 TUPT diagrams

4 Tests

Our package comes with a set of python 'unittest' files. This section maps these unit-tests and explains how to run them. Some unit-tests cannot be run however due to the separation from the main Tribler project. There are two unit-tests for which this is an issue. As with the main project, all the tests are written for Python 2.7 . We also want to note that some unit-tests require an active internet connection.

4.1 Required packages

To run our tests we use Ubuntu machines. In Table 1 are the required 3rd party python packages and their Ubuntu package names required to run the unit-tests.

4.2 Non-runnable tests

There are two unit-tests we cannot deliver runnable. Table Table 2 lays out the tests and the rationale behind why they are not runnable. Note all of the paths in the file

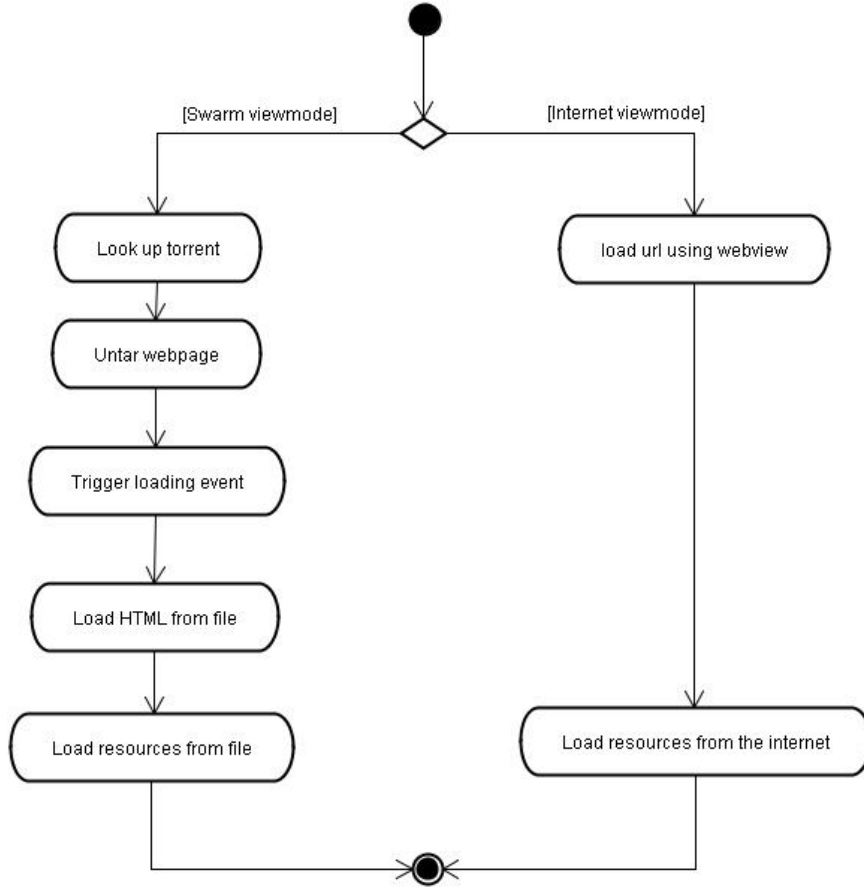


Figure 1: Activity diagram of viewmode based web browsing

names are offset from the *Tribler/Test/TUPT/* folder. These tests rely so heavily on core Tribler functionality, stubbing the Tribler classes would lead to unacceptable overlap of the stubs with the actual classes.

4.3 Runnable tests

The following tests in Table 3 can be run normally (provided the 3rd party packages were properly installed) from the terminal. The file names are offset from the *Tribler/Test/* folder.

4.4 Test output

This subsection contains the console output for all of our tests. The raw console output is shown for each of the tests in Table 4

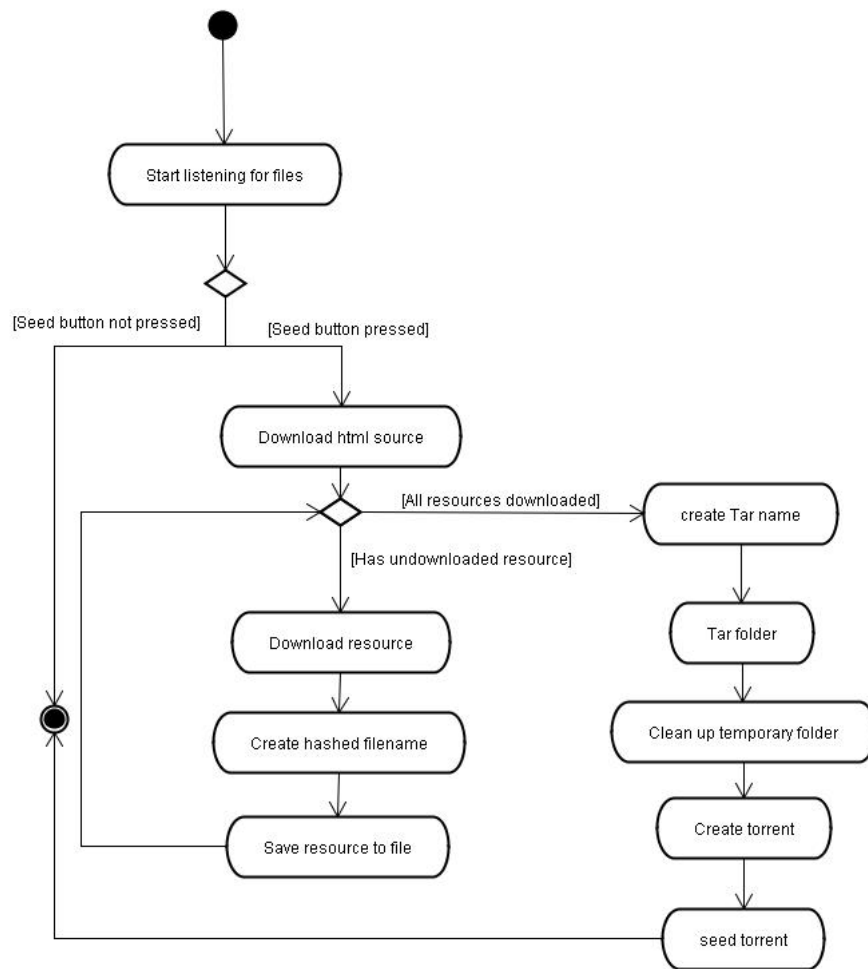


Figure 2: Activity diagram of seeding mode web browsing

Table 4: Test output

File	Output
TUPT/test_TUPTControl	<p>Finding files... done. Importing test modules ... done.</p> <p>-----</p> <p>Ran 13 tests in 0.002s</p> <p>OK</p>

Table 4 – continued from previous page

File	Output
TUPT/Channels/test_ChannelControl	<pre> Finding files... done. Importing test modules ... done. ----- Ran 5 tests in 0.002s OK </pre>
PluginManager/test_PluginManager	<pre> Finding files... done. Importing test modules ... done. ----- Ran 3 tests in 0.031s OK </pre>
TUPT/Parser/test_ParserControl	<pre> Finding files... done. Importing test modules ... done. ----- Ran 6 tests in 0.001s OK </pre>
TUPT/TorrentFinder/test_SortedTorrentList	<pre> Finding files... done. Importing test modules ... done. ----- Ran 6 tests in 0.004s OK </pre>

Table 4 – continued from previous page

File	Output
TUPT/Matcher/test_MatcherControl	<pre> Finding files... done. Importing test modules ... done. ----- Ran 2 tests in 2.541s OK </pre>
TUPT/Matcher/ test_TestTheMovieDBMatcherPlugin	<pre> Finding files... done. Importing test modules ... done. ----- Ran 3 tests in 2.274s OK </pre>
TUPT/Parser/test_IMDbParserPlugin	<pre> Finding files... done. Importing test modules ... done. ----- Ran 7 tests in 4.631s OK </pre>
TUPT/TorrentFinder/ test_KatPhTorrentFinderPlugin	<pre> Finding files... done. Importing test modules ... done. ----- Ran 3 tests in 0.970s OK </pre>

Table 4 – continued from previous page

File	Output
TUPT/TorrentFinder/ test_TorrentFinderControl	<pre> Finding files... done. Importing test modules ... done. ----- Ran 10 tests in 0.007s OK </pre>

Table 1: Required packages

Name	Ubuntu package
Yapsy	python-yapsy
wxPython	python-wxgtk2.8
IMDbPY	python-imdbpy
BeautifulSoup	python-bs4

Table 2: Non-runnable tests

File	Rationale
test_TUPTControl.py	Requires a development build of wxPython (2.9.4.0) and relies heavily on core Tribler functionality.
Channels/test_ChannelControl.py	Relies heavily on core Tribler functionality.

Table 3: Runnable tests

PluginManager/test_PluginManager.py
 TUPT/Parser/test_ParserControl
 TUPT/TorrentFinder/test_SortedTorrentList
 TUPT/Matcher/test_MatcherControl
 TUPT/Matcher/test_TestTheMovieDBMatcherPlugin
 TUPT/Parser/test_IMDbParserPlugin
 TUPT/TorrentFinder/test_KatPhTorrentFinderPlugin
 TUPT/TorrentFinder/test_TorrentFinderControl

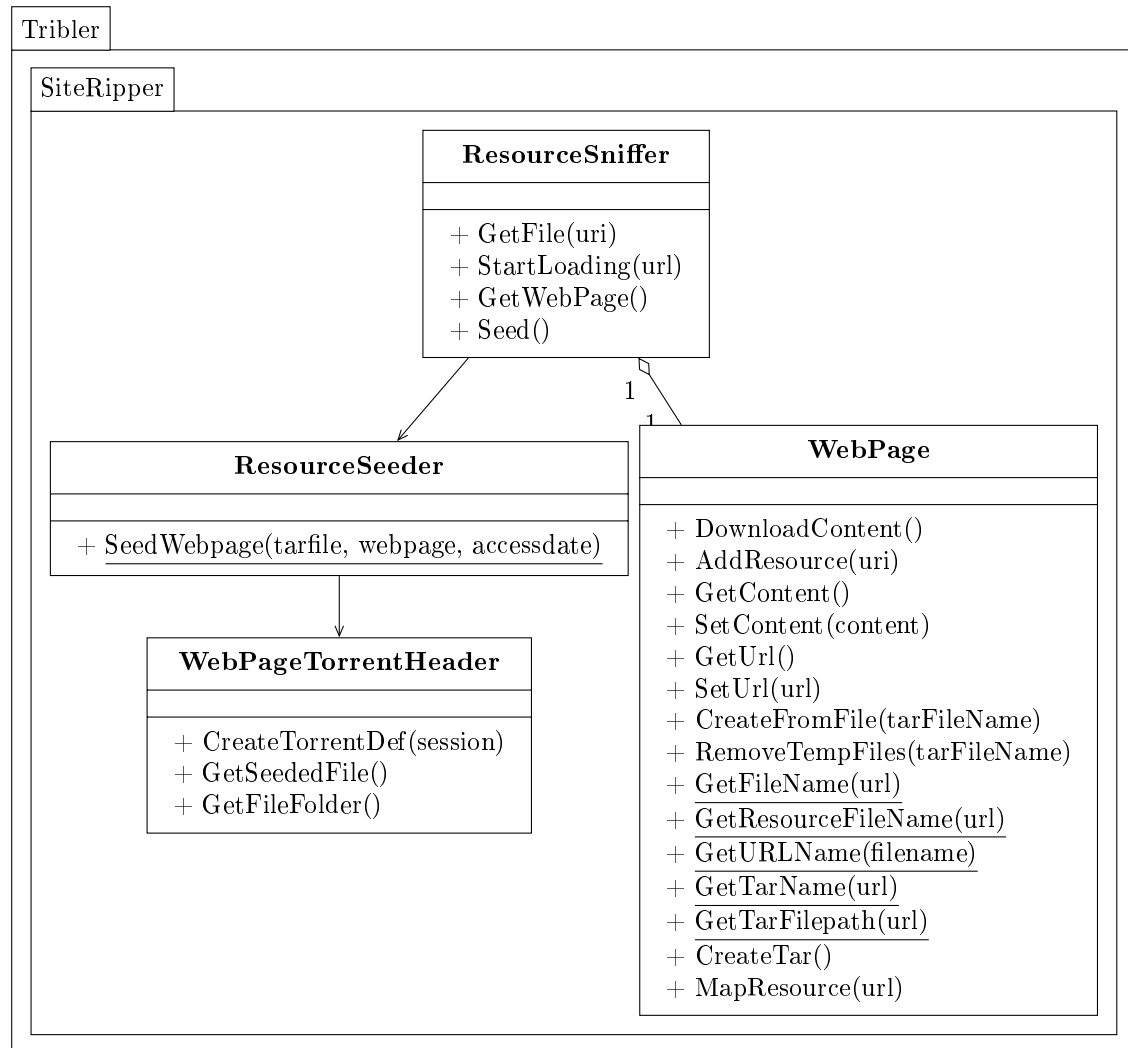


Figure 3: Class diagram for Eternal Webpages