

ConCodeSe – Quick Installation and run steps

Abstract

ConCodeSe ranks the source code files of an application using the details (i.e. summary and description) available on a defect document (i.e. bug report) so that the files that may be relevant to fix the defect are placed at the top-10 position of the result list.

Prerequisites

It is assumed that:

1. Java version JDK 1.8 or higher is installed
2. The environment variable JAVA_HOME on the classpath points to the java installation location
3. The license file is obtained by sending an email to info@concodese.com

Quick start

Following steps will get you started in using the tool in the basic simple mode.

1. Download the tool in a zip file from the tools category at <http://www.concodese.com/>
2. Unzip the file to a location, e.g. /Users/tezcan/tools/. This creates the sub-directory /concodese
3. Place the license.out file into the /config/lic sub-directory under main install dir /concodese
4. From a terminal command line, navigate to the directory where ConCodeSe is installed in step 1.
5. From a terminal (command-line) window, navigate to the /<install-loc>/concodese/bin directory and run the following shell command:
On Unix: ./SearchAndRankFilesServer.sh
On Windows: SearchAndRankFilesServer.bat

This will start the ConCodeSe Web Server and ask you to choose the runtime port. Default port 8080
Alternatively, you can specify a different runtime port with SERVER_PORT argument.

6. In your development tool, e.g. Eclipse, open the internal Web Browser, and enter the URL <http://localhost:8080/ConCodeSe/>
7. Press enter to get to the ConCodeSe start page. From there on you can follow the links to get to the configuration pages to create your project by following the instructions on the UI.

NOTE: The userid/password for the config pages is admin/adminpass. You can change it in the jcgrealm.txt file in /config/lic/ directory.

8. Once the repository is created, search by entering a bug summary and description (e.g stack trace).
9. You will get a list of source files ranked in the order of relevance to the entered search strings.

Perform bug resolution

Anyone of the candidate classes can be selected from the resulting list and its source code file can be opened for further investigation of the cause of the error.

1. Mark anyone of the candidate classes from the resulting list by highlighting it.
2. Copy/paste it into the Open Type window (ctrl+shift+T).
3. Press enter to open its source code file and investigate further.

Usage scenarios

ConCodeSe has several use-case scenarios described in detail in the user guide.

1. Web-based GUI (aimed for IDE search)
2. Issue tracking tool integration (currently plug-in for JIRA)
3. JIRA integration with the Web-based GUI

For more details please read the user guide in document **ConCodeSe_user_guide.pdf**