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I have put logging framework into CS project, and now we can use it instead of “System.out.print” or “Exception.printStackTrace”.

You can log message object, including stack trace of Throwable object passed as parameter.

* **Log Usage**

The usage is as follows:

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import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

public class LogTest {

    final Logger logger = LoggerFactory.getLogger(this.getClass());

    public static void main(String[] args) {

        // print message

                logger.info("print something”);

        try {

                }catch(Exception e) {

            // print message and exception stack trace

                 logger.error(“print something with stack trace”, e);

}

        }

}

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There are five log levels can be assigned and the order is as follows:

*Debug < Info < Warn < Error < Fatal*

The lower level you set for your app, the more message you can get from it.

e.g.

logger.info(“log info”);

logger.error(“log error);

if you set log level to “WARN”, logger will print “log error”

if you set log level to “INFO”, logger will print “log info” and “log error”

for more information, please refer to <http://logging.apache.org/log4j/1.2/manual.html>

* **Log File**

The log file name is “app.log”, and will be rolled every midnight .

e.g. “app.log” will be copied to “app.log.2011-04-06” on 2011/4/6 at midnight, and logging for 2011/4/7 will continue in “app.log” until it rolls over next day.

* **Log Output**

The log output is as follows:

  Layout pattern:  %d %-5p [%t][%X{sessionId}][%X{user}] %c{2} - %m%n

  sample:        2011-04-01 13:29:47,347 ERROR [http-thread-pool-8080(1)][f89d52c580f1fc35ce19c2be09b3][greg.chou] cs3.ProjectQuery – print some error here

The output include “date time”, “log level”, “category(class name)” and “message”.

It also include some application level information such as “session id” and “login account”

(if you want to log more application level info, you can just enhance “LogContextInfoFilter.java” and modify layout pattern in “log4j.properties”)