CFW Documentation

Contents

[1 File Structure 2](#_Toc5288505)

[2 API 3](#_Toc5288506)

[3 Logging 3](#_Toc5288507)

[3.1 Example Code 3](#_Toc5288508)

[3.2 Sample Configuration 3](#_Toc5288509)

[3.3 Known Issues 4](#_Toc5288510)

[4 Resources 4](#_Toc5288511)

[4.1 JAR Resources 4](#_Toc5288512)

[5 Maintenance 4](#_Toc5288513)

[5.1 Font Awesome 4](#_Toc5288514)

# File Structure

* **/config**
  + **logging.properties:** Configuration file for java.util.logging.
  + **cfw.properties:** Configuration file which has to pe passed to CFWSetup.*initialize*("./config/cfw.properties");
  + **credentials.csv:** file containing username/password credentials when using authentication\_method=CSV
  + **keystore.jks:** Default keystore for testing purposes(Password: 123456)
* **/datastore:** Default folder for the database files.
* **/log:** Folder containing the log files.
* **/resources**
  + **/css**
    - **Custom.css:** Your custom css file which will be loaded by TemplateHTMLDefault.
  + **/js**
  + **/html**

# Change DB Password

Connect to the DB and use the following SQL to change the password of the database user:

**ALTER** **USER** sa **SET** PASSWORD 'yourpassword';

# Admin Account

The default admin account is as follows:

* **Username:** admin
* **Password:** admin

If you have changed and forgot the admin password of this account you can do the following to reset the password back to the default:

* In the “./config/cfw.properties”, set the value of “cfw\_reset\_admin\_pw” to true and restart the application. A log statement of level INFO will be written confirming the reset of the password. Change the setting to false after the restart to prevent subsequent resets of the password.
* Connect to the database and delete the admin account from the database. Restart the application, the admin account will be created again. This might delete as well all other data from the database related to the account.

# Logging

By default the logging uses a asynchronous logger, which writes incoming logs all 50 milliseconds.

## Example Code

**public** **static** Logger *logger* = CFWLog.*getLogger*(YourClass.**class**.getName());

CFWLog log = **new** CFWLog(*logger*).method("initialize").start();

log.end();

Explanations:

* Initalize a logger with CFWLog.getLogger().
* Create a new CFWLog instance passing the logger
* Use CFWLog.start() and CFWLog.stop() method to create duration logs.

## Sample Configuration

handlers = com.pengtoolbox.cfw.logging.AsyncLogHandler, java.util.logging.FileHandler, java.util.logging.ConsoleHandler

config =

com.pengtoolbox.pageanalyzer.level = INFO

com.pengtoolbox.cfw.level = INFO

com.pengtoolbox.cfw.logging.AsyncLogHandler.level = FINE

com.pengtoolbox.cfw.logging.AsyncLogHandler.limit = 10000000

com.pengtoolbox.cfw.logging.AsyncLogHandler.append = false

com.pengtoolbox.cfw.logging.AsyncLogHandler.count = 1

com.pengtoolbox.cfw.logging.AsyncLogHandler.pattern = ./log/applog\_%u\_%g.log

#java.util.logging.FileHandler.level = FINE

#java.util.logging.FileHandler.filter =

#java.util.logging.FileHandler.formatter = com.pengtoolbox.cfw.logging.CFWLogFormatterJSON

#java.util.logging.FileHandler.encoding =

#java.util.logging.FileHandler.limit = 10000000

#java.util.logging.FileHandler.count =

#java.util.logging.FileHandler.append = false

#java.util.logging.FileHandler.count = 2

#java.util.logging.FileHandler.pattern = ./log/trace\_%u.%g.log

java.util.logging.ConsoleHandler.level = FINE

java.util.logging.ConsoleHandler.filter =

java.util.logging.ConsoleHandler.formatter = com.pengtoolbox.cfw.logging.CFWLogFormatterJSON

java.util.logging.ConsoleHandler.encoding =

## Known Issues

The Logging will not be formatted correctly, if one of the following is the case:

* The config file ./config/logging.properties is not defined
* The package names have changed
* The class name of CFWLogFormatterJSON was modified
* Any java.util.logging class was used before the logging.properties was loaded.

# Resources

## JAR Resources

You can fetch resources from JAR files using the servlet “jarresource”.

Parameters

* **pkg:** The package where the resource is stored.
* **File:** The file to be fetched

Example:

*./jarresource?pkg=com.pengtoolbox.cfw.resources.fonts&file=fa-solid-900.eot*

# Application

## HTTP to HTTPs Redirect

Add a HTTPSRedirectHandler as the first handler in your handler collection.

handlerCollection.setHandlers(**new** Handler[] {**new** HTTPSRedirectHandler(), apiContext, rewriteHandler, pageanalyzerContext, CFWSetup.*createResourceHandler*(), CFWSetup.*createCFWHandler*(), **new** DefaultHandler() });

### Known Issues

* When both HTTP & HTTPS is enabled, and redirect\_http\_to\_https is disabled, and user switches from HTTPS to HTTP, he cannot login anymore without restarting the browser.

# CFW.js

This section describes how to use various methods of cfw.js.

## CFWTable

Create a bootstrap table.

**var** cfwTable = CFW.ui.createTable();

cfwTable.isNarrow = **true**;

cfwTable.isHover = **true**;

cfwTable.isResponsive = **true**;

cfwTable.isStriped = **true**;  
cfwTable.tableFilter = **true**;

cfwTable.addHeader('&nbsp;');  
cfwTable.addHeaders(['&nbsp;','Timings','Status','Duration','URL']);

cfwTable.addRows('<tr> <td>A</td> <td>B</td> </tr>');  
cfwTable.addRows($('<tr>'));

cfwTable.appendTo(parent);

// add all keys from the first object in the array as headers

**for**(**var** key **in** data[0]){

cfwTable.addHeader(key);

}

## CFW.ui.addToast

Add a Toast message to the application.

//Regular Toast with primary style

CFW.ui.addToast("My Title", "Some Message");

//Small toast without body, styled as danger

CFW.ui.addToast("An error occured!!!", **null**, "danger");

//Success message and autohide in 3 seconds

CFW.ui.addToast("Saved Successfully!!!", **null**, "success", 3000);

# Maintenance

## Font Awesome

When upgrading font awesome:

* Update the CSS and font files in the package ”com.pengtoolbox.cfw.resources”
* Update font-awesome.css, @font-face.src definitions have to load files using the jarresource servlet.

@font-face {

font-family: *'Font Awesome 5 Free'*;

font-style: *normal*;

font-weight: *900*;

font-display: *auto*;

src: *url("./jarresource?pkg=com.pengtoolbox.cfw.resources.fonts&file=fa-solid-900.eot")*;

src: *url("./jarresource?pkg=com.pengtoolbox.cfw.resources.fonts&file=fa-solid-900.eot?#iefix")* *format("embedded-opentype"),* *url("./jarresource?pkg=com.pengtoolbox.cfw.resources.fonts&file=fa-solid-900.woff2")* *format("woff2"),* *url("./jarresource?pkg=com.pengtoolbox.cfw.resources.fonts&file=fa-solid-900.woff")* *format("woff"),* *url("./jarresource?pkg=com.pengtoolbox.cfw.resources.fonts&file=fa-solid-900.ttf")* *format("truetype"),* *url("./jarresource?pkg=com.pengtoolbox.cfw.resources.fonts&file=fa-solid-900.svg#fontawesome")* *format("svg")*;

}

## JQuery UI

When upgrading JQueryUI:

* Update the CSS and image files in the package ”com.pengtoolbox.cfw.resources”
* Update jquery-ui.min.css
  + Replace: url("images/
  + With: url("/cfw/jarresource?pkg=com.pengtoolbox.cfw.resources.images&file=