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# ISSUE TRACKER FEATURES AND FUNCTIONALITIES

## 1. ISSUES DATA TRANSFORMATION ACTIONS

You can load your issues data from different sources into different targets, whenever those sources and targets comply with the syntax and format of the issue tracker.

A single call performing the transformation of one issues source data into another target data instance artifact are called actions.

This section contains the description of this feature-set per action.

### 1.1. Run the txt-to-db action

You can load your issues from an "issues txt file", having a specific syntax into a PostgreSQL issue table, by issuing the shell.

This call will truncate the issue table from the db and convert all the issues data from the issues txt file into the issue table.

```
# pre-load the vars of an issue-tracker project
doParseIniEnvVars /vagrant/csitea/cnf/projects/issue-tracker/issue-tracker-issues.dev.doc-pub-host.cnf

# ensure there is no data in the issue table
psql -d "$db_name" -c 'TRUNCATE TABLE issue ;'

# run the txt-to-db action
bash src/bash/issue-tracker/issue-tracker.sh -a txt-to-db

# check the data by :
psql -d "$db_name" -c 'SELECT issue_id , category , name FROM issue order by name'
```

#### 1.1.1. Run the txt-to-db action period handling

Issues txt files are stored in a daily folder with the following naming convention:

<<project>>.<<current\_date>>.<<period>>.txt

The tool knows to correctly fetch the issues files for the configured period ( by export period=weekly ) and copy its data into the <<period>>\_issue table.

```
ysg-issues.2017-06-03.daily.txt
ysg-issues.2017-06-03.monthly.txt
ysg-issues.2017-06-03.weekly.txt
ysg-issues.2017-06-03.yearly.txt
```

### 1.2. Run db-to-xls action against postgres

You can unload your already stored ANY xls table with unique id's and load them into a xls file.

```
# pre-load the vars of an issue-tracker project
doParseIniEnvVars /vagrant/csitea/cnf/projects/issue-tracker/issue-tracker-issues.dev.doc-pub-host.cnf

# check the data by :
psql -d "$db_name" -c 'SELECT issue_id , start_time , stop_time , category , name FROM issue order by prio'

# run the db-to-xls action
bash src/bash/issue-tracker/issue-tracker.sh -a db-to-xls
```

### 1.3. Run the xls-to-db action

You can load the latest produced xls file ( note as long as your xls sheet headers match the columns in your db table ANY xls is compatible )

You can control whether or not the loadable table should be truncated by setting the do\_truncate\_tables environment variable to 1 or 0.

```
# check the data by :
psql -d "$db_name" -c 'SELECT issue_id , start_time , stop_time , category , name FROM issue order by prio'
```

```
# run the db-to-xls action
bash src/bash/issue-tracker/issue-tracker.sh -a xls-to-db

# check the updated data
psql -d "$db_name" -c '
SELECT issue_id , start_time , stop_time , category , name FROM issue order by start_time'
```

### 1.3.1. Run the xls-to-db action without passing xls file

if you do not provide a xls file the newest xls file from the mix data dir will be used

### 1.3.2. Run xls-to-db in nested-set mode against mysql

You could run the xls-to-db action against mysql or mariadb rdbms so that the issue-tracker will arrange your table to be compatible with the nested-set hierarchy model.

```
export load_model=nested-set
export rdbms_type=mysql # or mariadb
export tables=Feature,Test
bash src/bash/issue-tracker/issue-tracker.sh -a xls-to-db -t $tables
```

## 1.4. db-to-txt action

You can load your already stored in the issue table issues and load them into the same issues txt file

```
# check the data by :
psql -d "$db_name" -c '
SELECT issue_id , start_time , stop_time , category , name FROM issue order by prio'

# run the db-to-xls action
bash src/bash/issue-tracker/issue-tracker.sh -a db-to-txt

# check the updated data
psql -d "$db_name" -c '
SELECT issue_id , start_time , stop_time , category , name FROM issue order by start_time'
```

### 1.4.1. db-to-txt action with pre-defined sorting attribute

You can load your already stored in the issue table issues and load them into the same issues txt file by using a pre-defined sorting attribute.

```
export issues_order_by_attribute=start_time

bash src/bash/issue-tracker/issue-tracker.sh -a db-to-txt
```

## 1.5. run-pgsql-scripts

You can create a preconfigured <<env>>\_<<db\_name>> postgres via a single shell call. The scripts will fail if any of the sql scripts have a syntax error - all the ddl events will be displayed in the STDOUT and stored in the shell log file for later audit

## 1.6. run-mysql-scripts

You can create a preconfigured <<env>>\_<<db\_name>> in mariadb via a single shell call. The scripts will fail if any of the sql scripts have a syntax error - all the ddl events will be displayed in the STDOUT and stored in the shell log file for later audit

## 1.7. generate-docs

You can generate all the md and pdf docs via single shell call by issuing the following command:

```
bash src/bash/issue-tracker/issue-tracker.sh -a generate-docs
```

## 2. DEVOPS FEATURES AND FUNCTIONALITIES

### 2.1. Testability

The issue-tracker app has a good and improving all the time test coverage. You can all the tests in the application as follows:

#### 2.1.1. Perl syntax check for the whole project

You can check the perl syntax for each perl code file in the whole project by issuing the following shell call:

```
bash src/bash/issue-tracker/issue-tracker.sh -a check-perl-syntax
```

#### 2.1.2. Testability for unit testing

You can run the unit tests of the application by issuing the following single shell call:

```
bash src/bash/issue-tracker/issue-tracker.sh -a run-perl-unit-tests
```

#### 2.1.3. Testability for integration testing

You can run the integration tests of the application by issuing the following single shell call:

```
bash src/bash/issue-tracker/issue-tracker.sh -a run-perl-integration-tests
```

### 2.2. development efficiency increasing actions

#### 2.2.1. morph-dir action

You can recursively search and replace strings in both file and dir paths and their contents ( as soon as they non-binary , txt files ) by issuing the following commands:

```
export to_srch=WriterTxtDaily
export to_repl=WriterTxtTerm
export dir_to_morph=`pwd`
bash src/bash/issue-tracker/issue-tracker.sh -a morph-dir
fg
history | cut -c 8-
```

#### 2.2.2. work against different projects

The issue-tracker could be used against many different projects as soon as they have the needed file and dir structure , configuration file and dedicated db in the PostgreSQL.

```
# pre-load the vars of an issue-tracker project
doParseIniEnvVars /vagrant/csitea/cnf/projects/issue-tracker/issue-tracker-issues.dev.doc-pub-host.cnf
```

#### 2.2.3. issue-tracker tool perl code syntax check

You can check the perl code syntax with the following command:

```
bash src/bash/issue-tracker/issue-tracker.sh -a check-perl-syntax
```

### 2.3. Web based routes

#### 2.3.1. single item data fetch in json via web

You can get the data of a single item in db by guid in json format via the web interface , for example:  
[http://doc-pub-host:3000/dev\\_stockit\\_issues/get/company\\_eps/727cf807-c9f1-446b-a7fc-65f9dc53ed2d](http://doc-pub-host:3000/dev_stockit_issues/get/company_eps/727cf807-c9f1-446b-a7fc-65f9dc53ed2d)

```
# run for the loaded items
while read -r guid ; do
curl "http://doc-pub-host:3000/dev_stockit_issues/get/company_eps/$guid" ;
done < <(psql -d dev_stockit_issues -t -c "
SELECT guid FROM company_eps")
```

### 2.4. Documentation related

#### 2.4.1. Single call export of the md and pdf documentation files

Single call export of the md and pdf documentation files

