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# ISSUE-TRACKER

## 1. WHY

Why ?! Yet. Another. App ?!

Because work should be inspiring and not overwhelming people.

Because even good intentions without proper commitment, allocation and resourcing and most importantly a mean for tracking advancement of an endeavour in open way reflecting with the reality might end-up making people less happy, when in fact a really simple solution could be applied for any bigger challenge requiring progress tracking and people communication and coordination... And tons of other reasons we all having been in project disasters know about ... Still here ?! Let's move on !

Figure: 1 issue tracker objects polygon



## 2. WHAT

An application to manage multiple projects' issues, store them in postgres db, present them into dynamic web pages, write them to txt files, xls files, and publish them into Google Sheets with a lot of cool functionalities.

The full and extensive features and functionalities document could be read from:

<https://github.com/YordanGeorgiev/issue-tracker/blob/master/doc/md/issue-tracker-features-and-functionalities.md>

And moreover this application is the reflection of the best practices and principles for tens of years in IT resulting into a product of the Multi-environment instance architecture and the Input-Output Controller Model architecture ( more about this in the DevOps guide:

<https://github.com/YordanGeorgiev/issue-tracker/blob/master/doc/md/issue-tracker-features-and-functionalities.md>

## 3. INSTALLATION AND CONFIGURATION

This section is the starting point for deploying a fully working instance of the issue-tracker. The installation has been automated as much as possible and the docs have been updated each time when the setup has been changed, so following up the instructions and implementing step by step top to bottom should bring you to a fully functional instance and if there are clear inconsistencies or anything blocking you your feedback will be highly appreciated !

### 3.1. Prerequisites

The must have binaries are:

bash, perl, zip, postgres 9.6

The nice to have are:

tmux, vim, ctags

The examples are for Ubuntu - use your OS package manager ...

If you do not have postgres than you would have to follow the longer installation instructions :

<https://github.com/YordanGeorgiev/issue-tracker/blob/master/doc/md/issue-tracker-devops-guide.md#1-installations-and-configurations>

```
# use your OS package manager ... if you are not on Ubuntu
```

```
sudo apt-get autoclean
```

```
sudo apt-get install --only-upgrade bash
```

```
sudo apt-get install -y perl
```

```
# optionally
```

```
sudo apt-get install -y excuberant-ctags
```

```
sudo apt-get install -y 7z
```

```
sudo apt-get upgrade
```

### 3.2. Fetch the source

Fetch the source from git hub as follows:

```
# got to a dir you have write permissions , for example:
```

```
cd ~
```

```
# fetch the source
```

```
git clone git@github.com:YordanGeorgiev/issue-tracker.git
```

```
ls -la
```

```
# OR
```

```
wget https://github.com/YordanGeorgiev/issue-tracker/archive/0.3.8.zip
```

```
ls -al
```

```
unzip -o 0.3.8.zip -d .
```

### 3.3. run the boot-strap script

The bootstrap script will interpolate change the git deployment dir to a "product\_instance\_dir" ( your instance of the issue-tracker, having the same version as this one, but running on a different host with different owner - your )

```
# define the latest and greates product_version
```

```
export product_version=$(cd issue-tracker;git tag|sort -nr| head -n 1;cd ..)
```

```
# run the bootstrap script :
```

```
bash issue-tracker/src/bash/issue-tracker/bootstrap-issue-tracker.sh
```

```
# now go to your product instance dir , note it is a DEV environment
```

```
cd /opt/csitema/issue-tracker/issue-tracker.$product_version.dev.$USER
```

### 3.4. Apply the db and issue create scirpts

If you do not have the PostgreSQL ( v9.5 > ) with current Linux user configured role installed check the instructions in the installations and configuratios section of the DevOps guide:

<https://github.com/YordanGeorgiev/issue-tracker/blob/master/doc/md/issue-tracker-devops-guide.md#1-installations-and-configurations>

If you do have it , apply the db and issue create scirpts as follows:

```
# apply the postgre sql scripts
```

```
bash src/bash/issue-tracker/issue-tracker.sh -a run-pgsql-scripts
```

### 3.5. Install the required Perl modules

Just run the prerequisites checker script which will provide you with copy pastable instructions

```
sudo perl src/perl/issue_tracker/script/issue_tracker_preq_checker.pl
```

```
# after installing all the modules check the perl syntax of the whole project:
```

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

### 3.6. Start hacking

Start usage:

```
doParseIniEnvVars cnf/issue-tracker-issues.dev.doc-pub-host.cnf
```

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

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

```
# now edit the files in the xls
```

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

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

```
export issues_order_by_attribute=start_time
```

```
export issues_order_by_attribute=prio
```

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

```
# publish to gsheet issues:
```

```
export do_truncate_tables=1 ; bash src/bash/issue-tracker/issue-tracker.sh -a db-to-gsheet -t
```

```
daily_issues,weekly_issues,monthly_issues,yearly_issues
```

## 4. ADDITIONAL DOCS

Additonal docs could be found in the doc/md dir.

## 5. AND FINALLY THE PROJECT STATUS

The issue tracker project status could be tracked by the issue-tracker data stored in the following gsheet:

<https://docs.google.com/spreadsheets/d/e/2PACX-1vQ3ijqkY03mDXiaT3mcvr96NkgRnsONSAHyBGwnukuRezhHTaAZsUxOcoQ6fHfZmcHXP2KpD6kfCPR/pubhtml>