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# ISSUE-TRACKER USERSTORIES AND SCENARIOIS

## 1. TEAM LEADER BIZ PERSPECTIVE

As a team leader  
In order to operate successfully one or many projects of my team(s)  
I want to have a nice user experience while using the issue-tracker tool.

### 1.1. Projects management

As an team leader  
In order to be able to manage multiple projects  
I wanto to be able to create , update and remove projects.

#### 1.1.1. Create new projects

As an team leader  
In order to be able to manage new projects  
I wanto to be able to create projects via the issue-tracker

#### 1.1.2. Remove existing projects

As an team leader  
In order to be able to stop the work on existing projects  
I wanto to be able to remove projects via the issue-tracker

#### 1.1.3. Update existing projects

As an team leader  
In order to be able to change attributes of the projects I am responsible for  
I wanto to be able to update the projects' data.

#### 1.1.4. Search for existing projects

As an team leader  
In order to be able to quickly access existing projects  
I wanto to be able to search the projects.

#### 1.1.5. Switch between projects

As a team leader  
In order to manage issues from different projects  
I wanto to be able to switch between different projects easily and quickly

##### 1.1.5.1. Web UI for switch between projects

As a team leader  
In order to manage issues from different projects  
I wanto to be able to switch between different projects easily and quickly  
by simply changing the first token of the url of the app

##### 1.1.5.2. Current project visibility

As a team leader  
In order to avoid confusion between different projects  
I wanto to be able to see the current project name from any interface I am working in quickly and esily

### 1.2. Time management

As an team leader  
In order to be able the maximize the performance of the team for issue-tracker used periods  
I wanto to be able to manage time efficiently  
by accessing a simple page containing its value and the period it is related to.

#### 1.2.1. Total planned time tracking

As a team leader  
In order to see the planned time left for achieving the goals of a period  
I want to be able to have a +-3% approximation of the planned time left for a period  
by accessing a simple page containing its value and the period it is related to

### **1.2.2. Total remaining allocated time tracking**

As a team leader

In order to see the remaining time left for achieving the goals of a period

I want to be able to have a  $\pm 3\%$  approximation of the allocated time left for a period

### **1.2.3. Total spent time tracking**

As a team leader

In order to see the spent time left for achieving the goals of a period

I want to be able to have a  $\pm 3\%$  approximation of the spent time left for a period by accessing a simple page containing its value and the period it is related to

## **1.3. Security Management**

As an team leader

In order to keep my business data secure

I want to be able decide which users to which projects will have access to

### **1.3.1. Users management**

As an team leader

In order to keep my business data secure

I want to be able decide which users to which projects will have access to

### **1.3.2. Add new users to a project**

As an team leader

In order to be able to add new users into a project

I want to be able to add them via the UI only by their e-mail address.

### **1.3.3. Update existing users in a project**

As an team leader

In order to be able to update the existing users from a project

I want to be able to update their details via the UI only by their e-mail address.

### **1.3.4. Delete existing users from a project**

As an team leader

In order to be able to delete the existing users from a project

I want to be able to delete their details via the UI only by their e-mail address.

### **1.3.5. Search for users in a project**

As an team leader

In order to be able to search the existing users from a project

I want to be able to search their details via the UI only by their e-mail address.

## **2. TEAM MEMBER BIZ PERSPECTIVE**

As a team member

In order to operate successfully in the project

I want to have a nice user experience while using the issue-tracker application

by being able to manage all the items in the application ( issues,questions,problems , etc. )

### **2.1. Issues management**

As a team member of the issue-tracker

In order to achieve the best possible efficiency during the work on one or many projects

I want to be able to manage the issues in those projects.

#### **2.1.1. Create new issues**

As an team member

In order to be able to manage multiple issues

I want to be able to create , update and remove issues.

#### **2.1.2. Update existing issues**

As an team member

In order to be able to manage new issues

I wanto to be able to create issues via the issue-tracker

#### **2.1.3. Remove existing issues**

As an team member

In order to be able to stop the work on existing issues

I wanto to be able to remove issues via the issue-tracker

#### **2.1.4. Search for existing issues**

As an team member

In order to be able to change attributes of the issues I am responsible for

I wanto to be able to update the issues' data.

#### **2.1.5. Track issues progress**

As an team member

In order to be able to quickly access existing issues

I wanto to be able to search the issues.

#### **2.1.6. Track issues history**

As a team member

In order to keep track on what and when was planned on daily basis

I wanto to be able to keep track what was planned on a project term - day,week,month,year,quinquennial or decade

### **2.2. Track issues relations**

As a team member of a project

In order to trace the issues relations to userstories, features and tests or any other objects

I wanto to be able to access the related objects to an issue by means of a link

#### **2.2.1. Generic search for items from a single entity ( table )**

As a team member

In order to be able to find all the items from a single entity

I want to be search for those items from the UI of the application  
by using a single omnibox UI interface.

#### **2.2.2. Generic list for the searched items from a single entity ( table )**

As a team member

In order to be able to list and review all the items from a single entity

I want to be able to review the searched items for those items from the UI of the application  
by using a single label forms like interface

##### **2.2.2.1. Generic list labels for the searched items from a single entity ( table )**

As a team member

In order to be able to list and review all the items from a single entity

I want to be able to review the searched items for those items from the UI of the application  
by using a single label forms like interface

##### **2.2.2.2. Generic cloud list for the searched items from a single entity ( table )**

As a team member

In order to be able to list and review all the items from a single entity

I want to be able to review the searched items for those items from the UI of the application  
by using a single tag cloud like interface

#### **2.2.3. Generic create capability from UI for new items from a single entity ( table )**

As a team member

In order to be able to create new items from a single entity

I want to be able to create new items from the UI of the application  
by using a simple form.

#### **2.2.4. Generic edit capability from UI for existing items from a single entity ( table )**

As a team member

In order to be able to edit existing items from a single entity

I want to be able to edit those items from the UI of the application by using a simple form.

#### **2.2.5. Generic delete capability from UI for existing items from a single entity ( table )**

As a team member  
In order to be able to delete existing items from a single entity  
I want to be able to edit those items from the UI of the application by using a simple form.

#### **2.3. Measure success**

As a team member  
In order to measure the success of the planned issues  
I want to be able to measure the deliverables of each issue by comparable metrics.

#### **2.4. Monitor success**

As a team member  
In order to monitor the success of the planned issues  
I want to be able to monitor the metrics of the issues.

#### **2.5. Time management**

As an issues-manager  
In order to be prepared for issues such as ( events , tasks ) which have start and stop time  
I want to be able to save their start\_time and stop\_time per issue in every possible interface

##### **2.5.1. time centric planning**

As an issues-manager  
In order to be able to plan the issues data for a certain term - day,week,month,year,quinquennial or decade  
I want to be able to perform all the features of the issue-tracker on that specific period regardless whether it is today , in the past or in the future

```
bash src/bash/issue-tracker/issue-tracker.sh -a increase-date -d today
bash src/bash/issue-tracker/issue-tracker.sh -a increase-date -d tomorrow
```

##### **2.5.2. time centric reporting**

As an issues-manager  
In order to be able to report the issues data for for a certain term - day,week,month,year,quinquennial or decade  
I want to be able to perform all the features of the issue-tracker on that specific day regardless whether it is today , in the past or in the future

```
bash src/bash/issue-tracker/issue-tracker.sh -a increase-date -d yesterday
bash src/bash/issue-tracker/issue-tracker.sh -a increase-date -d yesterday
```

#### **2.6. Generic CRUDS for items**

As a team member  
In order to be able to manage all the items in the application I have access to  
I want to be able to create,update,delete and search for those items from the UI of the application.

#### **2.7. Project's persons issue combinations**

As the project manager of an issue-tracker project  
In order to be able to quickly and reliably combine the reported hours by the project's people  
I want to be able to read their issue-tracker formatted google sheets and combine them into a single project's google issue-tracker sheet

### **3. PROJECT OBSERVER BIZ PERSPECTIVE**

As a project observer  
In order to observe the advancement of a project  
I want to have a nice user experience while using the issue-tracker application.

#### **3.1. Projects observation**

As a project observer

In order to observe the advancement of a project  
I want to be able to observe the project's data.

### 3.2. Issues observation

As a project observer  
In order to observe the advancement of the project's issues  
I want to be able to observe the project's issues.

## 4. SYSADMIN PERSPECTIVE

As a sysadmin of the issue-tracker application  
In order to complete the tasks and activities of my role  
I want to have a nice user experience while using the issue-tracker application.

### 4.1. System deployability

As the SysAdmin  
In order to quickly take into use a new product instance of the issue-tracker application running on a separate host accessible via ssh  
I want to run a single deploy-host action - which will install the required OS libraries , Postgres and Perl modules for the operation of the tool silently.

```
# https://serverfault.com/questions/364452/silent-and-scripted-install-of-cpan-and-perl-modules  
# https://serverfault.com/a/815650/33346
```

### 4.2. System performance

As the SysAdmin  
In order to ensure the performance of the issue-tracker application  
I want the System containing the issue-tracker application to perform its functions within the defined performance criteria

### 4.3. System stability

As the SysAdmin  
In order to minimize downtimes and ensure continuous operations  
I want the System containing the issue-tracker application to perform its defined functions on request without interruptions or unknown side effects

### 4.4. System reliability

As the SysAdmin  
In order to be able to rely on the operations of the tool  
I want the System containing the issue-tracker application to perform its functions as specified consistently

### 4.5. Ease of use

As the SysAdmin  
In order to be efficient and decrease the amount of errors  
I want to generally perform any command the system within the sysadmin scope via clean and memorable oneliners

## 5. ETL AND INTEGRATIONS PERSPECTIVE

As an ETL and integrations specialist  
In order to complete the tasks and activities of my role  
I want to have a nice user experience while using the issue-tracker application.

### 5.1. Xls-to-mysql-db hierarchical data load

As the Data Integrator  
In order to be efficient while handling the System's hierarchical data  
I want to be able to  
use a single shell call to load all or chosen table(s) to the mysql db

#### 5.1.1. error reporting in xls-to-mysql-db hierarchical data load

As the Data Integrator  
In order to be efficient while troubleshooting data loading errors  
I want to be able to see :  
- which table's load failed  
- what was the error in failed to

## 5.2. Xls-to-postgres-db hierarchical data load

As the Data Integrator  
In order to be efficient while handling the System's hierarchical data  
I want to be able to  
use a single shell call to load all or chosen table(s) to the postgres db

### 5.2.1. error reporting in xls-to-postgres-db hierarchical data load

As the Data Integrator  
In order to be efficient while troubleshooting data loading errors  
I want to be able to see :  
- which table's load failed  
- what was the error in failed to

## 6. DEVOPS PERSPECTIVE

As a devops operator of issue-tracker application  
In order to complete the tasks and activities of my role  
I want to have a nice user experience while using the issue-tracker application.

### 6.1. System verifiability and testability

As an ITOPS  
In order to be able to rely on the operations of the tool  
and manage easily its features and functionalities  
I want to be able to easily verify and test parts or the whole System  
by issuing a single shell call.

#### 6.1.1. Clarity and brevity of the end to end tests

As an ITOPS  
In order to be able to verify all the features and functionalities of the tool within the System  
I want to see the results of each test in 1 row in the following format:.

#### 6.1.2. Abort end-to-end tests on single test fail

As an ITOPS  
In order to be able to run continuously end-to-end tests and skip for several runs failing tests  
I want to be able to configure the single e2e entry point script to skip certain tests, but report me what was skipped.

#### 6.1.3. Control flow logging

As a CLI user  
In order to be able to understand what the issue tracker tool is executing  
I want to have configurable logging with stderr, stdout and file output

#### 6.1.4. Single entry point for end to end tests

As an DevOps  
In order to be able to verify all the features and functionalities of the tool within the System  
I want to run a single shell call running all the end-to-end test of the application ensuring the prespecified features and functionalities.

#### 6.1.5. Tool run log to human readable description

As a CLI user  
In order to be able to get a human readable description of the log of the specific run of the tool  
I want to be able to translate the recorded uuid's in the execution run log to their respective records

#### 6.1.6. Userstories to test case relations

As a Developer  
In order to ensure the stability and expandability of the application  
I want to be able to run for each implemented userstory a single test

#### 6.1.6.1. UUID tracability for test files and userstories

As a Developer  
In order to identify each userstory to be tested with its according test  
I want to be able to track each userstory or test code entry point file by UUID.

#### 6.1.7. Components start run message



## **print**

As a CLI user

In order to know when a component has been started

I want to be able to see the "START <<COMPONENT\_NAME>>" on either the STDOUT or the log file of the component

### **6.1.8. Tool exit with exit code and exit message**

As a CLI user or calling calling automated component

In order to be able to understand whether or not the execution of the call to the tool was successful or not

I want to get the exit code from the tool execution and see the exit message

### **6.1.9. Execution path tracing by UUID's**

As a DevOps operator

Foreach execution run of the tool

I want to be able to walk through the execution path of the tool programmatically.

## **6.2. Manage details of issues with a single txt file**

As a CLI user

In order to be able quickly to view my issues

I want to be able to update the names , statuses and categories of my daily,weekly,monthly, yearly and decadal issues by simply editing the issues term file

### **6.2.1. Issues directories naming conventions**

As a issues manager

In order to be able to manage lots of issues from different projects stored in plain txt files

I want to be able to store large quantity of issues txt files by their date on daily, weekly, monthly, yearly and decadal basis

### **6.2.2. Issues files naming conventions**

As a issues manager

In order to be able to manage lots of issues from different projects stored in plain txt files

and open them quickly

I want to be able to just type the first letter in a text editor supporting select opened file by typing its first letter and jump to that file

### **6.2.3. Issues file open**

As a CLI user

In order to be able quickly to access my issues ( daily , weekly, monthly , yearly )

I want to be able to view my daily issues by simply opening a single txt file

### **6.2.4. Issues files history**

As a CLI user

In order to be able quickly to search through old issues

I want to be able to access old issues files by their date held in their file names from the file system

### **6.2.5. Issues files naming conventions**

As a DevOps

In order to be able quickly to access and manage programmatically issues

I want to be able to guess the file paths of the issues file by their date

#### **6.2.5.1. Issues files naming conventions for the project**

As a DevOps

In order to be able quickly to switch between different projects

I want to have the project name of the issues file in its name as the first token as follows:

<<issue\_tracker\_project>>-issues.<<current-iso-date>>.<<daily|weekly|monthly|yearly>>.txt

#### **6.2.5.2. Issues files naming conventions for current date**

As a DevOps

In order to be able quickly and programmatically to go back in the history

I want to have the current registration date in the file name and path  
<<issue\_tracker\_project>>-issues.<<current-iso-date>>.<<daily|weekly|monthly|yearly>>.txt

#### **6.2.5.3. Issues files naming conventions for the time frame**

As a DevOps

In order to be able quickly and programmatically to go back in the history

I want to have the current registration date in the file name and path

<<issue\_tracker\_project>>-issues.<<current-iso-date>>.<< ( daily|weekly|monthly|yearly ) >>.txt

### **6.3. Issues transformations**

As a cli user of the issue-tracker application

In order to be able to sort the issues according to their attributes

and edit them in both txt file and xls file

I want to be able to perform the following loads:

txt-to-db - to load a txt file with issues to an issues table in db

db-to-xls - to load a xls file from db table to xls

xls-to-db - to load a xls file with issues to an issues table in db

db-to-txt - to load a txt file from db table

#### **6.3.1. Load by txt-to-db**

##### **action**

As a cli user of the issue-tracker application

in order to store my issues in structured form to db for further processing

I want to be able to load any issue file with a single line shell call to a db

##### **6.3.1.1. Load issues file from file system to db**

As a cli user of the issue-tracker application

- in order to be able to handle issues from different projects

- and load them to db for further processing

I want to:

- pre-set the variables of the project

- and then load any issue file with a single line shell call to a db

- and optionally specify the period of the issues file ( daily , weekly , monthly , yearly ) with daily as default

#### **6.3.2. Load issues by db-to-xls**

##### **action**

As a cli user of the issue-tracker application

in order to be able to sort and edit my issues in Excel

I want to be able to unload my issues from one or many tables in the db at once in a single shell call

#### **6.3.3. Load issues by xls-to-db**

##### **action**

As a cli user of the issue-tracker application

in order to store my issues in structured form to db for further processing after being sorted in Excel

I want to be able to load my latest xls file with a single line shell call to a db

by choosing the names of the tables to load

##### **6.3.3.1. Load issues by xls-to-db action for insert or upset**

As a cli user of the issue-tracker application

in order to insert or upset my issues in structured form to db for further processing after being sorted in Excel

I want to be able to load my latest xls file with a single line shell call to a db

by choosing the names of the tables to load and specifying upset by adding the guid column to the xls sheet

##### **6.3.3.2. Load issues by xls-to-db action by truncating or not the loadable table**

As a cli user of the issue-tracker application

in order to store my issues in structured form to db for further processing after being sorted in Excel

I want to be able to load my latest xls file with a single line shell call to a db

by choosing the names of the tables to load

#### **6.3.4. Load issues by db-to-**

##### **txt**

As a cli user of the issue-tracker application

in order to store my issues in more structured data format for further processing

I want to :

- be able to load the issues for a period from the db to a file

- by choosing the names of the tables to load

#### **6.3.4.1. xls-to-db action load sort by issues prio attribute**

As a cli user of the issue-tracker application  
during the db-to-txt action load  
in order to understand the priority of my issues  
I want to :

- be able to specify the order in the issues txt files lines to be based on the prio attribute by choosing the names of the tables to load

#### **6.3.4.2. db-to-txt action load sort by issues start\_time attribute**

As a cli user of the issue-tracker application  
during the db-to-txt action load  
in order to understand the priority of my issues  
I want to :

- be able to specify the order in the issues txt files lines to be based on the start\_time attribute ( start\_time could be in the following format YYYY-mm-dd HH:MM in start\_time or HH:MM ) by choosing the names of the tables to load

#### **6.3.4.3. db-to-txt action load sort by issues start\_time attribute**

As a cli user of the issue-tracker application  
during the db-to-txt action load  
in order to view the issues by categories  
I want to :

- be able to specify the order in the issues txt files lines to be based on the category attribute

#### **6.3.5. Load issues file from db to file system**

As a cli user of the issue-tracker application  
in order to store my issues in more structurized data format for further procesing  
I want to :

- be able to load the issues for a period from the db to a file
- and optionally specify the period of the issues file ( daily , weekly , monthly , yearly ) with daily as default

### **6.4. issues file filtering**

As a CLI user  
In order to filter quickly my issues  
I wanto to be able to show the issues with their categories of only certain status

### **6.5. Single shell call for projects switching**

As an issues-manager  
In order to be able to switch between different projects quickly  
I wanto to be able to issue a single shell call for loading a project's configuration and run the issue-handler against this pre-loaded configurtion

### **6.6. Issues publishing from shell calls**

As a DevOps  
In order to be able to quickly share the current issues data in tabular format  
I wanto to be able to issue a single shell call for copying the current items data to a medium by specifying the tables to be published

#### **6.6.1. Issues publishing in e-mail format**

As a DevOps  
In order to be able to quickly share the current issues data in email format  
I wanto to be able to issue a single shell call for copying the current items data to email by specifying the tables to be published

#### **6.6.2. Issues handling in google sheet format**

As a DevOps  
In order to be able to quickly share the current issues data in tabular format  
I wanto to be able to issue a single shell call for copying the current items data to google sheet by specifying the tables to be published

#### **6.6.3. Issues publishing in google calendar format**

As a DevOps  
In order to be able to quickly share the current issues data in google calendar format  
I wanto to be able to issue a single shell call for copying the current items data to google calenda by specifying the tables

to be published for the items having set start\_time and stop\_time attributes.

## **6.7. Metadata handling**

As a DevOps

In order to be able to programatically manage all aspects of my data

I want to have a single entry point to manage the meta data per tables , columns and UI elements

so that even a table, column or whatever object is not populated in the meta still there will be default values for it usable by the application

## **7. UI PERSPECTIVE**

As an UI user of the issue-tracker application

In order to manage my issues via the UI successfully

I want to have a nice user experience while using the issue-tracker application.

### **7.1. Performance**

As an UI user of the issue-tracker application

In order to enjoy the usage of the tool and interact efficiently

I want to have responsive and quick UI.

#### **7.1.1. Page load times**

As an UI user of the issue-tracker application

In order to enjoy the usage of the tool and interact efficiently

I want to have a maximum page load time on efficient network less than 0.5 seconds and preferably even 0.3 seconds

### **7.2. Mobile**

As an UI user of the issue-tracker application

In order to enjoy to be able to access it quickly on the go

I want to be able to use the same UI on an advanced mobile phones.

### **7.3. Projects switching**

As an issue-tracker ui user

In order to be able to quickly switch between projects

I want to be able to access a web page providing autocomplete to preloaded configuration entries for the different projects

### **7.4. Time management**

As an issue-tracker ui user

In order to be prepare for issues such as ( events , tasks ) which have start and stop time

I want to be able to view the issues with the same title, start\_time and stop\_time in google calendar

#### **7.4.1. copy an issue-tracker instance issue to a google calendar event**

As an issue-tracker ui user

In order to be able to see my issues time-schedule via phone and browser in a calendar view

I want to be able to copy via the ui an issue as a new google calendar event

### **7.5. Issues listing**

As an UI user of the issue-tracker application I want to be able to list the issues stored in it.

#### **7.5.1. automatic issue items sequencing**

As an UI user of the issue-tracker application

In order to save time while arranging all the different issue items

I want the System to automatically sequence each item in list view by a default incremental sequence unless I have specified my own sequence.

#### **7.5.2. issues re-ordering by desired or default attribute in list view**

As a UI user

In order to prioritize and re-arrange to a logical sequence my issues

I want to be able to drag and drop issues up and down , which would correspondingly increase or decrease their attribute to which they are currently sorted or ordered by.

#### **7.5.3. issues list default row**

## **height**

As a UI user

In order to quickly comprehend the data in the lists

I want each row of the ui to have a certain minimum height and whenever the data cannot fit into this height to be greater than it

## **7.6. Issues data transfer between different projects**

As the UI user of an issue-tracker instance

In order to be able to track my personal time usage between different projects and the different interdependencies

I want to be able to move issues data from one project to another via the UI

## **7.7. Issues export to Google calendar**

As the UI user of an issue-tracker instance

In order to be able to visualize and manage my start- and stop\_time having issues better

I want to be able to export my issues to Google calendar

## **7.8. Issues import from Google calendar**

As the UI user of an issue-tracker instance

In order to be able to visualize and manage my start- and stop\_time having issues better

I want to be able to import my Google calendar issues into my issue-tracker profile on an issue-tracker instance

## **7.9. Access issues txt format from email**

As a user of the issue tracker tool

In order to be able to access and read my issues from a mobile device

I want to be able to send each period txt file from the daily folder via gmail.

## **7.10. Access issues data from Google sheet**

As the biz user of the issue tracker tool

In order to be able to share and edit the data with multiple users authenticated within the Google ecosystem

I want to be able to access , edit and update the issues data from google sheet

### **7.10.1. Apply publish filter while posting to Google Sheet**

As the biz user of the issue tracker tool

In order to show only relevant data to the future viewers of the published to Google sheets issues data

I want to be able to apply publishing filter for columns to be left unpublished per item table per project

## **8. UI DEVELOPER PERSPECTIVE**

As the UI Developer

In order to be able to deliver working solutions for the UI

I want to have user friendly development experience.

### **8.1. Testability**

As the UI Developer

In order to deliver working ui units

I want to be able to quickly setup the existing project with minimalistic default set of data.

### **8.2. Multiple control paths for single web action entry point**

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