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USERSTORIES AND SCENARIOS

1. COMMON UI PERSPECTIVE

As an UI user of the qto application
In order to manage my issues via the UI successfully
I want to have a nice user experience while using the qto application.

1.1. UI Performance

As an UI user of the qto application
In order to enjoy the usage of the tool and interact efficiently
I want to have responsive and quick UI.

1.2. Form factors

As an UI user of the qto application
In order to be able to be able to access from anywhere and anytime
I want to be able to use it with different form factor devices

1.2.1. Desktop UI

As an UI user of the qto application
In order to be able to use it fully on the work-place
I want it to work primarily on Desktop for every UI feature

1.2.2. Table UI

As an UI user of the qto application
In order to be able to access it quickly on the go
I want to be able to use the same UI on an advanced tablets

1.2.3. Mobile UI

As an UI user of the qto application
In order 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.

1.3. The left menu UI - organising the structure of the project

As an UI user of the qto application
in order to be able to manage the whole structure of my project
I want to have access to a left menu from each page

1.3.1. Managing listings from the left menu

As an UI user of the qto application
in order to be able to store and track data from different listings or in different documents
I want to be able to create new listings by simple right click on the left menu and selecting "add listing".

1.3.2. Managing documents from the left menu

As an UI user of the qto application
in order to be able to store and track data from different listings or in different documents
I want to be able to create new documents by simple right click on the right menu and selecting "add document".

1.3.3. Managing folders on the left menu

As an UI user of the qto application
in order to be able to be able to organise the structure of my project
I want to be able to add, update and delete folders from the left menu

1.4. The list page UI

As an UI user of the qto application
in order to be able to efficiently process relational data for any project
I want to be able to list all or part of the project's database table via a single UI

1.4.1. Search in the list page

As an UI user of the qto application
In order to be able to quickly and effortlessly search the content of the loaded document in the list page
I want to be able to focus the search-box with a single shortcut / click on the left menu, so that after typing 3 letters the left menu will get filtered by the search string and the table content will get filtered as well.

1.4.2. Items listing

As an qto ui user
In order to be able to quickly see as much items (issues, problems, ideas etc.)
I want to list the items in a web page according to the filtering criteria I might have specified earlier on ...

1.4.3. Items editing

aAs an UI user of the qto application
In order to update the application data via the UI
I wan to to be able to edit the data for ANY of the items in the application I have access to.

1.4.3.1. Items editing inline

As an UI user of the qto application
In order to be able to quickly update the items data in a listing UI
I wan to to be able to edit it Excel table like by quickly navigating trough an grid and type the new values to update.

1.4.3.2. Items editing via a modal dialog

As an UI user of the qto application
In order to be able update the application data via the UI by using a more familiar form-like interface
I want to to be able to edit the data for any item by clicking on an edit button, and filling the fields of a form

1.4.4. Items creation

As an UI user of the application
I order to create new items in the application
I want to be able to create them via the UI
by clicking "create new button" and filling as few as possible data entries and clicking a Save button for ANY of the items in the application.

1.4.5. Items deletion

As an UI user of the application
I order to delete existing items in the project
I want to be able to delete them via the UI
by clicking a "delete " button and confirming the deletion for the item

1.4.6. Items export

As an UI user of the application
I order to export the data of the items in the application
I want to be able to perform every possible export in the UI from a single button click or a single url access.

1.4.7. Items import

As an UI user of the application
I order to import data of the items in the application
I want to be able to perform every possible import in the UI from a single button click and pointing to the file path of a file

1.5. The view page UI

As an UI user of the qto application
in order to be able to efficiently process hierarchical relational data for any project
I want to be able to list all or part of the project's database table via a single UI

1.5.1. View page navigation

As an UI user
In order to quickly grasp the content of a view doc
I want to be able to quickly and effortlessly navigate the view doc page.

1.5.1.1. Title numbers link navigation and sharing

As an UI user
In order to read the the current item in the top of the screen and to be able to refer it exactly with a link
I want to be able on click the system to move it on the top of the screen and to change the url pointing to the exactly chosen item.

1.5.1.2. Title numbers link navigation and sharing

As an UI user
In order to read the the current item in the top of the screen and to be able to refer it exactly with a link
I want to be able on click the system to move it on the top of the screen and to change the url so that when the link is copied one could refer to it by sending it.

1.5.2. View doc page print preview

As an UI user
In order to be able to share the documents of a qto application in pdf format or even physically print them
I want to be able to see the whole document or just a branch of it in print-preview mode

1.5.2.1. links

As an UI user
In order to have as clean entity as possible to a pdf document I do not want to be able to add,edit or delete items from the print preview mode, however so that the clickable links should remain as part of the content

1.5.2.2. Disable the right and left menus in print preview mode

As an UI User
In order to have as clean and easily printable document as possible in a pdf format I do not want to either see or access the right and left menu links.

1.5.3. Search in the view page

As an UI user of the qto application
In order to be able to quickly and effortlessly search the content of the loaded document in the view doc page
I want to be able to focus the search-box with a single shortcut / click on the left menu, so that after typing 3 letters the left menu will get filtered by the search string.

1.5.4. Hierarchical items management

As an the ui user
In order to manage the hierarchical items in the application
I want to be able to manage by actions (list, create, update, delete, search) ANY hierarchical items of the application in from a hierarchical doc format by simply right clicking on their titles and choosing from the menu the action which must have both image and text to indicate more

1.5.4.1. Add Item

I want to be able to add items to the view page by simply right clicking the upper title of the item and selecting add item

1.5.4.2. Update item

I want to be able to update items data to the view page

1.5.4.2.1. Update item's title

I want to be able to update item's title by simply clicking in it and starting to type the new contents ...

1.5.4.2.2. Update item's description

I want to be able to update item's description by simply clicking in it and starting to type the new contents ...

1.5.4.2.3. Update item's src_code

I want to be able to update item's src_code by simply clicking in it and starting to type the new contents ...

1.5.4.2.4. Move item in the hierarchy

In order to quickly edit the structure of a hierarchical doc
I want to be able to move item by drag and drop from the left menu

1.5.4.3. Delete item

I want to be able to delete an item by right clicking it's title and choosing delete item.

1.5.5. Right TOC menu navigation

As an the ui user
In order to navigate quickly in the document structure
I want to be able to see the document structure by clicking a right menu containing the Table of Contents of this document with a clickable links.

1.5.5.1. Open and close of right menu

As an the ui user
In order to navigate quickly in the document structure
I want to be able to open and close the right menu quickly from both it's top and the bottom

1.5.5.2. Search in the right menu

As an the ui user
In order to navigate quickly in the document structure
I want to be able filter quickly the right menu items by the means of right menu quick srch/filtering box which will filter the items containing the string I am typing for dynamically

1.5.5.3. Links in the right menu

As an the ui user
In order to navigate quickly in the document structure by levels
I want to be able to simply click on the links (level 1 , level-2 , level-3 etc.) which will open the document

1.5.6. Left menu navigation

As a QTO application UI user
In order to be able to quickly jump to a different document / listing
I want to be able to click on the upper left corner of the view page and access the hierarchichal project structure of the whole project from the left menu.

1.6. Search UI

As an qto ui user
In order to be able to search ANY items (issues, problems, ideas etc.)
I want to have a pop-up search SearchBox with dimmed background providing with interactive autocomplete, which would assist me in specifying the search criteria for any item I want to list.

1.6.1. Global search from the list page

As an qto ui user
In order to be able to search ANY items (issues, problems, ideas etc.) from the list page
I want to be able to search from the list page by simply clicking on a search textbox on the top left of the page, typing the search phrase I want to search for and getting the results by hitting enter or clicking the search icon on the right of the search box ...

1.6.2. Global search from the view page

As an qto ui user
In order to be able to search ANY items (issues, problems, ideas etc.) from the view page
I want to be able to search from the view page by simply clicking on a search icon (might be the / shortcut as well) , the system should bring up a modal dialog with the global search ui, than I should be able to type the search phrase I want to search for and hit enter, when the System should present me the search results.

1.6.3. Global search modal dialog ui

As an UI user
In order to have the best possible search experience
I want to be able to search from a modal dialog UI which will pop-up on a dimmed background after the search-box is focused ..

1.6.3.1. Search-autocomplete on modal search dialog

As an UI user
In order to get quickly to exactly the searched item I am searching for
I want the System to present me with autocomplete of the mostly occurring string I am searching for with the name of the item on the left and when clicking on it I want it to open the list as grid page with all the items having this item in the search ...

1.7. The notes UI

The 7 sticky notes would be used for practising :
- the crud's with web sockets
- the per user data management

1.8. The chat UI

As UI user
In order to :
be able to quickly communicate an issue with other users of the qto applications
I want to :
be able to use a quick chat with other users within the application instance

1.9. Multi-project aware UI

As the UI user of an qto instance
In order to save be able to track my personal time usage between different projects and the different interdependencies
I want to be able to move items data from one project to another via the UI.

Items data transfer between different projects

1.9.1.

As the UI user of an qto instance
In order to manage multiple projects efficiently
I want to be able to move items data from one project to another via the UI in a trusted manner.

1.10. Items management

As an UI user of the application
In order to be able to manage multiple different items and entities
I want to be able to perform multiple actions on items easily and efficiently.

1.10.1. Items move

As an UI user of the application
I order to move the items into different tables
I want to be able to move them from a button in the listing page by specifying the target table

1.11. Issues import from Google calendar

As the UI user of an qto instance
In order to be able to visualise and manage my start- and stop_time having issues better
I want to be able to import my Google calendar issues into my qto profile on an qto instance

Access issues data from Google sheet (deprecating)

1.12.

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

2. 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 qto tool.

2.1. Roles management

As the Instance Owner or Product Owner
in order to have a finer granularity on the different data stored in my instance
I want to be able to define roles and per roles visibility on :
- item page level
- item row level
- item tag level

2.2. Projects management

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

2.2.1. Users management in a project

As an team leader
In order to be able to efficiently allocate human resources to a project
I want to be able manage (create , update , delete and search) users for each project.

2.2.2. Users access management

As a team leader
In order provide the persons and programs access to my project
I want to provide read, write access to the data and execute access (run DDL's) per table

2.2.2.1. Grant access per project

As a team leader
In order to enroll authenticated users into the project I am responsible to
I want to be able to grant them with access by only writing their e-mail into a text field and clicking invite button.

2.2.2.2. Personal data handling minimization

As a team leader
In order to avoid legal obligations and complex procedures while handling personal data
I want to be able to handle the interpersonal exchange of data by collecting ONLY the e-mail of the persons or programs participating in the project

2.3. 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 the data my qto application has access to.

2.4. Time management

As an team leader
In order to be able the maximize the performance of the team for qto 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.

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

3.1. Issues management

As a team member of the qto
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.

3.1.1. Remove existing issues

As an team member
In order to be able to stop the work on existing issues
I want to be able to remove issues via the qto

3.1.2. Search for existing issues

As an team member
In order to be able to change attributes of the issues I am responsible for
I want to be able to update the issues' data.

3.1.3. Track issues progress

As an team member
In order to be able to quickly access existing issues
I want to be able to search the issues.

3.1.4. Track issues history

As a team member
In order to keep track on the changes of the issues
I want to be able to follow the history of the changes

3.2. Items management

As a team member of the qto
In order to achieve the best possible efficiency during the work on one or many projects
I want to be able to manage the Items in those projects, where items could be (problems , questions etc.

3.3. Issues management

As a team member of the qto
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.

3.3.1. Update existing Items

As an team member
In order to be able to manage new Items
I want to be able to create Items via the qto

3.3.2. Remove existing Items

As an team member
In order to be able to stop the work on existing Items
I want to be able to remove Items via the qto

3.3.3. Search for existing Items

As an team member
In order to be able to change attributes of the Items I am responsible for
I want to be able to update the Items' data.

3.3.4. Track Items progress

As an team member
In order to be able to quickly access existing Items
I want to be able to search the Items.

3.3.5. Track Items history

As a team member
In order to keep track on what and when was planned on daily basis
I want to be able to keep track what was planned on a project term -
day,week,month,year,quinquennial or decade

3.4. 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 want to be able to access the related objects to an issue by means of a link

3.5. Items management

As a team member of the qto
In order to achieve the best possible efficiency during the work on one or
many projects
I want to be able to manage the Items in those projects, where items could
be (problems , questions etc.

4. 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 qto application.

4.1. 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.

4.2. 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.

4.3. 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.

4.4. 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.

5. SYSADMIN PERSPECTIVE

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

5.1. System deployability

As the SysAdmin
In order to be able to provide access to a new database driven application to
my organization
I want to be able to deploy an instance of the qto application and spawn a
new project out of it in less than a hour from a clean Linux host including
AWS.

5.2. 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

5.3. System stability

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

5.4. 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.

5.5. System reliability

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

5.6. Project's persons issue combinations

As the project manager of an qto 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 qto formatted google sheets and combine them into a single project's google qto sheet

5.7. 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

6. 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 qto application.

6.1. Security

As the SysAdmin
In order to be able to provide the best possible security level of operation for the qto instance I am responsible for
I want to have pre-defined and clear set of tasks and activities to perform related to the security.

6.2. 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.

6.2.1. Who logged in and out when

As the SysAdmin
In order to provide the best possible security for the data of my organisation
I want to be able to provide easily and quickly answer to the question :
Who logged in and out when?

6.3. 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.

6.3.1. who changed what and why

As the SysAdmin
In order to provide the best possible security for the data of my organisation
I want to be able to provide easily and quickly answer to the question :
Who changed what and why?

7. 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 qto application.

7.1. System deployability

As the SysAdmin
In order to be able to provide access to a new database driven application to my organization
I want to be able to deploy an instance of the qto application and spawn a new project out of it in less than a hour from a clean Linux host including AWS.

7.2. Database to json files data load

As the ETL and Integration Specialist
In order to be able to quickly move all the project data into a different storage format
I want to be able to export the project db data into json files - one per table via a single shell call.

7.3. System performance

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

7.4. Json files to db data load

As the ETL and Integration Specialist
In order to be able to quickly move all the project data from json files into the db tables
I want to be able to import the exported json files (one per table) into the database.

7.5. System stability

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

7.6. System reliability

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

7.7. 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

error reporting in xls-to-postgres-db hierarchical data

7.7.1. 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

7.8. 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

7.9. Security

As the SysAdmin
In order to be able to provide the best possible security level of operation for
the qto instance I am responsible for
I want to have pre-defined and clear set of tasks and activities to perform
related to the security.

7.10. Project deployment

As a potential Developer of the qto or a qto application
In order to have the easiest installation experience
I want to be able to deploy fully functional development environment on a
clean host in less than an hour with a single oneliner.

7.11. 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 easily verify and test parts or the whole System
by issuing a single shell call.

8. DEVOPS 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 qto application.

8.1. 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 flow in the following format:.

Databases - local to remote and remote to local sync

8.2.

As a DevOps Operator
In order to :
- keep the dog-footed local and remote db instances in sync
- and have full mobile access via the web
I want to :
- be able to apply a full db dump remotely via a single one-liner
- both local to remote and remote to local

8.2.1. 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.

8.3. Database to json files data load

As the ETL and Integration Specialist

In order to be able to quickly move all the project data into a different storage format

I want to be able to export the project db data into json files - one per table via a single shell call.

8.4. Logging

As a Full-Stack Developer

In order to quickly understand what is happening in the application

I want to have easy-to-use and highly customisable logging to both file and console.

8.5. Json files to db data load

As the ETL and Integration Specialist

In order to be able to quickly move all the project data from json files into the db tables

I want to be able to import the exported json files (one per table) into the database.

8.5.1. 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

8.6. 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 mysql db

8.6.1. Log entries format configuration

As a Full-Stack Developer

In order to be able to get the msg of any component of the application

I want each log entry to content:

- the type of the entry - log , error, warn , fatal
- the timestamp of the log entry event
- the name of the component issueing the msg and the line num of the src file
- the msg as it was echoed by the application

8.7. 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

8.7.1. 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 specified features and functionalities.

8.7.2. 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

8.8. Application's source code and documentation integrity

As a Full-Stack Developer
In order to make easy the entry of other developers to the projects
I want to be able to point to written documentation for user-stories, issues, features and functionalities, which will be linked to parts of the source code.

8.9. System deployment

As a potential Developer of the qto or a qto application
In order to have the easiest installation experience
I want to be able to deploy fully functional development environment on a clean host in less than an hour with a single oneliner.

8.9.1. 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 user-story a single test

9. 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.

9.1. Easy setup for testability

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9.2. Code traceability by uuid

As the UI Developer
In order to be able to grasp the inner working of the application
I want to be able to search by user-story uuid from the source code of the application

9.3. Single shell call for projects switching

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

9.4. Issues publishing from shell calls

As a DevOps
In order to be able to quickly share the current issues data in tabular format
I want 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

9.5. Metadata handling

As a DevOps operator

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.

