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ISSUE TRACKER FEATURES, FUNCTIONALITIES AND CAPABILITIES

L.

INTRODUCTION

1.1. Purpose

The purpose of this document is to describe all the features, functionalities and capabilities provided by a properly installed, configured and operated instance of the issue-tracker application.

This document is the CONTRACT between you the potential or active user of an issue-tracker instance and the product owner of that instance.

1.2. Document status

This document is updated constantly in every release of the issue-tracker. Each version however is considered to be a complete version regarding the issue-tracker version it situated in.

1.3. Audience

This document is aimed for everyone, who shall, will or even would like to interact with an issue-tracker application instance.

1.4. Master storage and storage format

The master storage of this document is the master branch of the issue-tracker release you are interested in. The main storage format is Markdown.

1.5. Version control

The contents of this document MUST be updated according to the EXISTING features, functionalities and capabilities of the issue-tracker version, in which this document residues, thus should you find inconsistencies in the behavior of the application and the content of this document you should create a bug issue and assign it to the owner of your product instance.

2. UI FEATURES

This section describes the User Interface (UI) features of the issue-tracker application, which all (for now) are accessible from an internet browser accessing a running instance of the issue-tracker application. The following examples illustrate the concept:

2.1. Support for different projects

You could access multiple projects by accessing their project databases as the first URI path component provided that the web server has top access to those databases.

access the issue-tracker's project development database

http://host-name:3000/dev_issue_tracker/list/monthly_issues

access the issue-tracker's project testing database

http://host-name:3000/tst_issue_tracker/list/monthly_issues

access the aspark-starter project production database

http://host-name:3000/prd_aspark_starter/list/monthly_issues

2.2. Common listing features

This section describes all the common listing related features. In the context of the issue-tracker's parley the "listing" is the ui list of control/(s) you get by using the following URL format:

http://<<web-host>>:<<web-port>>/<<pre>port>>//list/<<item>>?<<pre>params>>

2.2.1. Listing url syntax

The common listing syntax components are as follows:

- web-host is the web-host the issue-tracker's web instances is accessible from
- web-port the web port the instance is accessible from
- proj-db-name is the name of the database of your project (as the issue-tracker supports multiple projects , with multiple databases ...)
- list is the name of the action to perform
- $\hbox{- item is the name of the item which ui controls you want to list (could be issues, problems, questions, etc.\\$

- ?<<pre>- ?<<pre>- ?<<pre>- ?<<pre>params>> the additional url parameters used to control the look and behavior of the listing action, should the url
params be omitted the full content of the item table with default ui look and behavior are displayed.

an example url could be:

http://host-name:3000/dev_ysg_issues/list/monthly_issues?as=table&pick=id,status,prio,name,description&page-size=15&page-num=1&o=prio&with=status-ne-09-done

2.2.2. Successful execution

You can use the pick=col1,col2,col3 url parameter to select for only desired attributes.

You could filter the result the same way the filters for the select page work (see bellow).

2.2.3. Error handling for non-existent

db

If the db provided in the url pattern does not exist an error is shown.

2.2.4. Error handling for non-existent

table

If the table requested does not exist an error is shown.

2.2.5. Error handling for non-existent

column

If the column requested does not exist an error is shown.

2.2.6. The "pick" url param

You can use the pick=col1,col2,col3 url parameter to select for only desired attributes to be show in the ui control used for listing

2.2.7. The "hide" url param

If you do not specify any attribute to pick, you could hide specific attributes by using the "hide=col1,col2,col3" syntax

2.2.8. The "with=col-operator-value" filter

You can filter the result of the query by using the "with=col-operator-value". The following examples demonstrates, which operators are supported

```
with=status-eq-09-done
list all the items having the attribute "status" equal to the "09-done" string

with=prio-lt-7
list all the items having the attribute prio smaller than the number 7

this is the list of all the operators supported

'eq' => '='

, 'ne' => '<>'

, 'gt' => '>'

, 'lt' => '<'

, 'le' => '<='

, 'like' => 'like'
```

2.2.9. Filtering with

"like"

The filtering with the like operator translates to the SQL "like" operator- the "like-by=<<attr>>&like-val=<<val>> filtering, where <<attr>> stands for the name of the attribute to use the like operator.

this example url will list all the monthly_issues items having the "bug" string in their "name" attribute: http://host-name:3000/dev_issue_tracker/list/monthly_issues?as=table&like-by=name&like-val=bug

2.3. List as table page

The list table page lists all the rows from any table in the app db in form of simple ui table , which is sortable by clicking with

2.3.1. table sorting

The listed table is sortable by clicking on the columns OR by navigating with the tab key on the keyboard on a column and hitting Enter.

2.3.2. table

filtering

You can filter the already presented part of the result set in the page by using the search textbox. This is only an ui type of filtering for the already loaded data. This type of filtering is different compared to the url parameters filtering by using the with url param syntax and it filters the already fetched from the db data-set, whereas the with=<4.24">dtribute>> <a href="https://documents.com/drag/br/

2.3.3. set table paging

size

You can set the page size of the result set to be fetched from the database by using the "&page-size=<<page-size>>" url parameter or by clicking on the page sizes links right of the table search box.

2.3.4. set table page

number

If the result-set requested is larger than the page size you can go to the next page number by using the "&page-num= << page-num>>" url parameter.

You could go to the next page number by clicking on the links after the last row.

The table control has UI for setting the table page number.

2.4. List labels page

The list labels page lists all the rows from any table in the app db in form of "labels" - rectangular forms containing all the selected attributes (by default all) and their values.

3. DEVOPS FEATURES AND FUNCTIONALITIES

3.1. 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:

3.1.1. Perl syntax check

call

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

3.1.2. Unit tests

call

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

3.1.3. Integration tests

call

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

3.1.4. Bash tests

call

You can run all the bash functions in the tool by issuing the following command in the shell.

if you set the previous 2 actions as those to be tested

bash src/bash/issue-tracker/test-issue-tracker.sh

2018-05-12 18:01:08 START test-issue-tracker test run report

result start-time stop-time action-name

ok 18:01:09 18:01:19 run-perl-unit-tests

ok 18:01:20 18:01:30 run-perl-integration-tests

2018-05-12 18:01:30 STOP test-issue-tracker test run report

3.2. Logging

Logging is implemented as follows:

3.2.1. Bash logging

The issue-tracker.sh bash entry point loggs both to STDOUT and file. You cold easily defined your own log levels.

doLog "INFO an info msg"

[INFO] 2018.05.08-21:05:25 EEST [issue-tracker][@host-name] [29667] an info msg:

3.2.2. Perl logging

The perl logger could be configured to log to file and std outputs.

doLog "INFO an info msg"

[INFO] 2018.05.08-21:05:25 EEST [issue-tracker][@host-name] [29667] an info msg:

3.3. Development efficiency increasing actions

3.3.1. Support for 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.

You could guickly fork a new project out of the issue-tracker instance by copying the

pre-load the vars of an issue-tracker project

doParseIniEnvVars /vagrant/csitea/cnf/projects/issue-tracker/issue-tracker-issues.dev.doc-pub-host.cnf

3.3.2. The "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

tg

history | cut -c 8-

3.3.3. 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

3.3.4. Single call export of the md and pdf documentation

files

Single call export of the md and pdf documentation files

4. SHELL BASED ACTIONS

In this section the "actions" are simply shell calls using the -a <<action-name>> command line options.

Before issueing any shell-action call, a project variables must be pre-loaded

You run the actions from the product instance dir as follows:

pre-load the project variables

doParseCnfEnvVars cnf/issue-tracker.dev.host-name.cnf

run the run-integration-tests

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

4.1. The "run-pgsql-scripts" action

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.

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

4.2. The "run-mysql-scripts" action

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

4.2.1. The "txt-to-db" action period

handling

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

<<pre><<pre><<pre><<pre><<pre><<pre><<pre><<pre><<pre><<pre>

The tool knows to correctly fetch the issues files for the configured period (by export period=weekly) and copy its data in to the <<pre>events = veriod = v

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

4.3. The "txt-to-db" action

You can load you issues from an "issues txt file" , having a specific syntax into a PosgtreSQL issue table, by issueing the shell.

This call with 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'

4.4. The "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

4.5. 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.

clear ; export tables=`curl -s -k http://\$web_host:3000/\$postgres_db_name/select-tables|jq -r '.| .dat| .[] | .table_name'|perl -ne 's/\s+/,/g;print'`;export do_truncate_tables=1 ; export rdbms_type=postgres ; export load_model=upsert ; perl src/perl/issue_tracker/script/issue_tracker.pl --tables \$tables --do xls-to-db

4.5.1. 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

clear; export tables=`curl -s -k http://\$web_host:3000/\$postgres_db_name/select-tables|jq -r '.| .dat| .[] | .table_name'|perl -ne 's/\(\seta\)-/,/g;print'\;export do_truncate_tables=1; export rdbms_type=postgres; export load_model=upsert; perl

4.5.2. The "xls-to-db" action with 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 tables=Tests,ItemController,ItemModel,ItemView,ExportFile,UserStory,Requirement,DevOps,Feature,ReadMe,SystemGuide,Image,ExportFile; export do_truncate_tables=1; export rdbms_type=mysql; export load_model=nested-set; perl src/perl/issue_tracker/script/issue_tracker.pl --do xls-to-db --tables \$tables

4.6. The "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'
```

4.6.1. The "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
```

4.7. generate-docs

You can generate all the md and pdf docs by if you have a running instance of the isg-pub application accessible via single shell call by issuing the following command:

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

4.8. The db-to-json shell action

You could make a backup of all your postgres tables data by running the db-to-json shell action as follows:

```
clear; export tables=`curl -s -k http://$web_host:3000/$postgres_db_name/select-tables|jq -r '.| .dat| .[] | .table_name'|perl -ne 
's/\s+/,/g;print'`;export do_truncate_tables=1; export rdbms_type=postgres; perl src/perl/issue_tracker/script/issue_tracker.pl --do db-to-json --
tables $tables
```

4.9. The json-to-db shell action

You could restore a previously created json files backup (the json files are stored in the << ProductInstanceDir>>/dat/json by default by issueing the following oneliner (you need to have the web server up and running in order to fetch the list of tables too)

clear; export tables=`curl -s -k http://\$web_host:3000/\$postgres_db_name/select-tables|jq -r '.| .dat| .[] | .table_name'|perl -ne 's/\(\sigma\)-k/,/g;print'\;export do_truncate_tables=1; export rdbms_type=postgres; perl src/perl/issue_tracker/script/issue_tracker.pl --do json-to-db -- tables \(\stable\)-tables

4.10. restart the morbo development server

You could restart the development morbo server by issuing the following syntax:

bash src/bash/issue-tracker/issue-tracker.sh -a mojo-morbo-stop ; bash src/bash/issue-tracker/issue-tracker.sh -a mojo-morbo-start

4.11. restart the hypnotoad production server

You could restart the production hypnotoad server by issuing the following syntax:

5. BACK-END FEATURES AND FUNCTIONALITIES

5.1. select-tables web action

An http-client could get the select of all the tables of a database to which the issue-tracker has connectivity to (that is not only the one configured in the application layer)

<<web-host>>:<<web-port>>/<<database>>/select-tables

5.1.1. successful execution

An http-client could get the select of all the tables of a database to which the issue-tracker has connectivity to

```
// 20180505205212
// http://192.168.56.120:3000/dev_issue_tracker/select-tables
"dat": {
  "1": {
   "row_id": "1",
   "table_catalog": "dev_issue_tracker",
   "table_name": "confs",
   "table_schema": "public"
  },
  "2": {
   "row_id": "2",
   "table_catalog": "dev_issue_tracker",
   "table_name": "daily_issues",
   "table_schema": "public"
  },
  "3": {
   "row id": "3",
   "table_catalog": "dev_issue_tracker",
   "table_name": "decadally_issues",
   "table_schema": "public"
  }
},
 "msg": "SELECT tables-select OK ",
 "reg": "GET http://192.168.56.120:3000/dev issue tracker/select-tables",
 "ret": 200
```

5.1.2. error handling for failed connect to db in the select-tables web action

If the http-client points to a db to which the app layer does not have a connection (might be a non-existing one) the proper response is generated.

```
// 20180503234141
// http://192.168.56.120:3000/non_existent/select/daily_issues

{
    "msg": "cannot connect to the non_existent database: FATAL: database \"non_existent\" does not exist",
    "req": "GET http://192.168.56.120:3000/non_existent/select/daily_issues",
    "ret": 400
}
```

5.2. select web action

An http-client could get the contents of ANY table of a database to which the issue-tracker has connectivity to (ie not only the one configured in the application layer but also other databases in the same postgres instance) by using the following syntax:

<<web-host>>:<<web-port>>/<<database>>/select/<<table-name>>

5.2.1. successful execution

An http-client could get the contents of ANY table of a database to which the issue-tracker has connectivity to by calling the following url:

<<web-host>>:<<web-port>>/<<database>>/select/<<table-name>>

5.2.2. apply multiple operators on the select

properly

All the operators bellow could be combined and the result set is the one "translated" with the AND operator in the back-end side.

5.2.3. error handling for failed connect to db in the select web

action

If the http-client points to a db to which the app layer does not have a connection (might be a non-existing one) the proper response is generated.

```
// 20180503234141
// http://192.168.56.120:3000/non_existent/select/daily_issues

{
    "msg": "cannot connect to the non_existent database: FATAL: database \"non_existent\" does not exist",
    "req": "GET http://192.168.56.120:3000/non_existent/select/daily_issues",
    "ret": 400
}
```

5.2.4. error handling for non-existent table in the select-tables web

if a table does not exist a proper error msg containing response is generated.

```
// 20180505205015
// http://192.168.56.120:3000/dev_issue_tracker/select/non_existent

{
    "msg": " the table non_existent does not exist in the dev_issue_tracker database ",
    "req": "GET http://192.168.56.120:3000/dev_issue_tracker/select/non_existent",
    "ret": 400
}
```

5.2.5. filter functionality in select table web

action

The response cold be filtered by ANY attribute with any valid value.

```
// using the following syntax:
<<web-host>>:<<web-port>>/<<database>>/select/<<table-name>>?fltr-by=<<filter-attribute-to-filter-by>>&fltr-val=<<filter-value-to-filter-by>>
```

5.2.5.1. successful execution

The response of the select web action could be filtered by using the syntax bellow:

Those are eventual transated to a where clause in the db select part.

```
// 20180505204531
// http://192.168.56.120:3000/dev_issue_tracker/select/monthly_issues?fltr-by=prio&fltr-val=1

{
    "dat": {
        "c89d3283-0a9f-4b8d-9dcc-84a63e64276b": {
        "actual_hours": null,
        "category": "issue-tracker-features",
        "description": "add the web select controller "\r\n - implementation code\r\n - tests \r\n - documentation additions for :\r\n-- requirements\r\n--
userstories\r\n-- tests \r\n-- features and functionalities",
        "guid": "c89d3283-0a9f-4b8d-9dcc-84a63e64276b",
        "id": 180402,
        "level": 2,
        "name": "add the web select controller",
        "owner": "ysg",
        "planned_hours": "3.00",
```

```
"prio": 1,

"seq": 1,

"start_time": "2018-04-02 18:00",

"status": "07-qas",

"stop_time": null,

"tags": "feature",

"type": "feature",

"update_time": "2018-05-04 23:18:45.104771"

}

, "msg": "SELECT OK for table: monthly_issues",

"req": "GET http://192.168.56.120:3000/dev_issue_tracker/select/monthly_issues?fltr-by=prio&fltr-val=1",

"ret": 200
}
```

5.2.5.2. error handling for wrong filtering syntax by missed fltr-by or fltr-va url params

If the request does not have either one of the url params the following response is produced.

```
// 20180505204734
// http://192.168.56.120:3000/dev_issue_tracker/select/monthly_issues?fitr-by=prio

{
    "msg": "mall-formed url params for filtering - valid syntax is ?fitr-by=<<attribute>>&filtr-val=<<filter-value>>",
    "req": "GET http://192.168.56.120:3000/dev_issue_tracker/select/monthly_issues?fitr-by=prio",
    "ret": 400
}
```

5.2.5.3. error handling for non-existent filter name

If the syntax is correct but an non-existent filtering attribute is provided (that is the table columns and the attribute name do not match) the following error msg is returned:

```
// 20180506220030
// http://192.168.56.120:3000/dev_issue_tracker/select/monthly_issues?fltr-by=foo&fltr-val=sdklfj

{
    "msg": "the foo column does not exist",
    "req": "GET http://192.168.56.120:3000/dev_issue_tracker/select/monthly_issues?fltr-by=foo&fltr-val=sdklfj",
    "ret": 400
}
```

5.2.6. Use pick url param functionality in select table web action

Works for both a single colum and a comma separated select of columns. Obeys the following syntax:

```
// using the following syntax:
<<web-host>>:<<web-port>>/<<database>>/select/<<table-name>>?pick=col1,col2,col3
```

5.2.6.1. successful execution

if the request contains the "pick" url parameter only the picked column values are selected.

5.2.6.2. error handling if a picked column does not exist

if a picked column does not exist the following error is displayed.

```
// 20180506230926
// http://192.168.56.120:3000/dev_issue_tracker/select/monthly_issues?pick=non_existent_column

{
    "msg": "the non_existent_column column does not exist",
    "req": "GET http://192.168.56.120:3000/dev_issue_tracker/select/monthly_issues?pick=non_existent_column",
    "ret": 400
}
}
,
    "msg": "SELECT OK for table: monthly_issues",
    "req": "GET http://192.168.56.120:3000/dev_issue_tracker/select/monthly_issues?pick=name%2Cprio",
    "req": "GET http://192.168.56.120:3000/dev_issue_tracker/select/monthly_issues?pick=name%2Cprio",
    "ret": 200
}
```

5.2.7. Use filtering with the like operator in select table web action

The response cold be liked by ANY attribute with any valid value.

```
// using the following syntax:
<<web-host>>:<<web-port>>/<<database>>/select/<<table-name>>?like-by=<<li>like-attribute-to-like-by>>&like-val=<<li>like-value-to-like-by>>
```

5.2.7.1. successful execution for number types

The like operator could be used with numbers as well.

```
// 20180508191656
// http://192.168.56.120:3000/dev_issue_tracker/select/yearly_issues?like-by=prio&like-val=1&pick=name,prio

{
    "dat": {
        "46533749-1c00-4688-9cdd-1cc276ca40ac": {
            "guid": "46533749-1c00-4688-9cdd-1cc276ca40ac",
            "name": "implement upsert in DbWriterPostgres",
            "prio": 21
        }, "msg": "SELECT OK for table: monthly_issues",
        "req": "GET http://192.168.56.120:3000/dev_issue_tracker/select/monthly_issues?like-by=prio&like-val=1",
        "ret": 200
}
```

5.2.7.2. successful execution for text types

The response of the select web action could be likeed by using the syntax bellow:

Those are eventual transated to a where clause in the db select part.

```
// 20180505204531
// http://192.168.56.120:3000/dev_issue_tracker/select/monthly_issues?like-by=prio&like-val=1
 "dat": {
  "c89d3283-0a9f-4b8d-9dcc-84a63e64276b": {
   "actual hours": null,
    "category": "issue-tracker-features",
    "description": "add the web select controller "\r\n - implementation code\r\n - tests \r\n - documentation additions for :\r\n-- requirements\r\n--
userstories\r\n-- tests \r\n-- features and functionalities",
   "guid": "c89d3283-0a9f-4b8d-9dcc-84a63e64276b",
   "id": 180402,
   "level": 2.
   "name": "add the web select controller",
   "owner": "ysg",
   "planned_hours": "3.00",
   "prio": 1,
   "seq": 1,
```

```
"start_time": "2018-04-02 18:00",

"status": "07-qas",

"stop_time": null,

"tags": "feature",

"type": "feature",

"update_time": "2018-05-04 23:18:45.104771"

}

},

"msg": "SELECT OK for table: monthly_issues",

"req": "GET http://192.168.56.120:3000/dev_issue_tracker/select/monthly_issues?like-by=prio&like-val=1",

"ret": 200
}
```

5.2.7.3. error handling for wrong syntax in the filtering by the like operator by missed like-by or like-val url params

If the request does not have either one of the url params the following response is produced.

```
// 20180505204734
// http://192.168.56.120:3000/dev_issue_tracker/select/monthly_issues?like-by=prio

{
    "msg": "mall-formed url params for likeing - valid syntax is ?like-by=<<attribute>>&like-val=<<li>like-val=<<li>req": "GET http://192.168.56.120:3000/dev_issue_tracker/select/monthly_issues?like-by=prio",
    "ret": 400
}
```

5.2.7.4. error handling for non-existent like table's attribute

If the syntax is correct but an non-existent like operator's attribute is provided (that is the table columns and the attriute name do not match) the following error msg is returned:

```
// 20180506220030
// http://192.168.56.120:3000/dev_issue_tracker/select/monthly_issues?like-by=foo&like-val=sdklfj

{
    "msg": "the foo column does not exist",
    "req": "GET http://192.168.56.120:3000/dev_issue_tracker/select/monthly_issues?like-by=foo&like-val=sdklfj",
    "ret": 400
}
```

5.2.8. Filtering by using the "with" url

You can filter the result of the query by using the "with=col-operator-value"

5.2.8.1. Successful execution

The application selects only the rows matching the generated where <<column>> <<operator>> <<value>> , where the operator could be also the like operator (set also if the value contains the % char)

5.2.8.2. Error handling for non-existent column

If the column used does not exist an error is provided as follows:

```
// 20180605150010
// http://192.168.56.120:3000/dev_issue_tracker/select/monthly_issues?as=cloud&with=prio-lt-7&o=prio&pick=name,prio&with=foo-eq-02-todo

{
    "msg": "the foo column does not exist",
    "req": "GET http://192.168.56.120:3000/dev_issue_tracker/select/monthly_issues?as=cloud",
    "ret": 400
}
```

5.2.9. the hide operator in the select web action

Whenever a hide=<<col-name>> operator is applied the values and the column names of the column to hide are not displayed in the result. Use command to as the separator for listing multiple columns to hide.

```
// using the following syntax:
<<web-host>>:<<web-port>>/<<database>>/select/<<table-name>>?hide=guid,prio
```

5.2.9.1. successful execution for text types

The response of the url query presents all but the hidden attribute values.

```
// 20180511144541
 // http://192.168.56.120:3000/dev_issue_tracker/select/monthly_issues?like-by=category&like-
   val=features&pick=name,prio,start_time,stop_time,category,status&o=stop_time&hide=guid
  {
      "dat": [
                 "category": "issue-tracker-features",
                 "name": "improve integration testing",
                "start_time": null,
                "status": "09-done",
                 "stop_time": null
          }
     1,
      "msg": "",
     "req": "GET\ http://192.168.56.120:3000/dev\_issue\_tracker/select/monthly\_issues? like-by = category \& like-by = 
    val=features&pick=name%2Cprio%2Cstart_time%2Cstop_time%2Ccategory%2Cstatus&o=stop_time&hide=guid",
      "ret": 200
```

5.2.9.2. error handling for inexistent column to hide

If the column which values are requested to be hidden does not exist the proper error message is retrieved.

```
// 20180505204734

// http://192.168.56.120:3000/dev_issue_tracker/select/monthly_issues?like-by=prio

{
    "msg": "mall-formed url params for likeing - valid syntax is ?like-by=<<attribute>>&like-val=<<li>like-value>>",
    "req": "GET http://192.168.56.120:3000/dev_issue_tracker/select/monthly_issues?like-by=prio",
    "ret": 400
}
```