${\bf Issue Sync Tool}$

v. 0.0.1

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Introduction

 $(under\ construction)$

Description

(under construction)

rtc_client.py

3.1 Function: get_xml_tree

from IssueSyncTool.rtc_client import RTCClient

3.1.1 Method: login

Authenticate and establish a session with RTC. issuesynctool-rtc-client-rtcclient-get-workitem -----

3.1.2 Method: update_workitem

3.1.3 Method: create_workitem

sync_issue.py

4.1 Function: process_cli_argument

4.2 Function: process_configuration

4.3 Function: sync_data

Update source (original) issue due to information from appropriate destination one.

Defined sync attributes:

- 'Title': add issue ID as prefix e.g '[123] Ticket title'when creating on destination tracker
- 'Story point': when planning existing issue on destination tracker
- \bullet 'Version': when planning existing issue on destination tracker

Update destination issue due to information from source.

Defined sync attributes:

• 'Status': status is synced from original ticket, not allow to update directly on destination tracker

4.4 Function: SyncIssue

4.5 Class: Logger

Imported by:

```
from IssueSyncTool.sync_issue import Logger
```

Logger class for logging message.

4.5.1 Method: config

Configure Logger class.

Arguments:

- output_console
 / Condition: optional / Type: bool / Default: True /
 Write message to console output.
- output_logfile
 / Condition: optional / Type: str / Default: None /
 Path to log file output.

dryrun
 / Condition: optional / Type: bool / Default: True /
 If set, a prefix as 'dryrun' is added for all messages.

Returns:

 $(no\ returns)$

4.5.2 Method: log

Write log message to console/file output.

Arguments:

```
• msg / Condition: optional / Type: str / Default: '' / Message which is written to output.
```

```
    color
    / Condition: optional / Type: str / Default: None /
    Color style for the message.
```

```
• indent
/ Condition: optional / Type: int / Default: 0 /
Offset indent.
```

Returns:

(no returns)

4.5.3 Method: log_warning

Write warning message to console/file output.

Arguments:

```
    msg
    / Condition: required / Type: str /
    Warning message which is written to output.
```

```
• indent
/ Condition: optional / Type: int / Default: 0 /
Offset indent.
```

Returns:

(no returns)

4.5.4 Method: log_error

Write error message to console/file output.

```
• msg
/ Condition: required / Type: str /
Error message which is written to output.
```

```
• fatal_error

/ Condition: optional / Type: bool / Default: False /

If set, tool will terminate after logging error message.
```

• indent
/ Condition: optional / Type: int / Default: 0 /
Offset indent.

Returns:

 $(no\ returns)$

tracker.py

5.1 Class: Ticket

Imported by:

from IssueSyncTool.tracker import Ticket

Normalized Ticket with required information for syncing between trackers issuesynctool-tracker-ticket-update -----

Update issue on tracker with following supported attributes:

- title
- assignee
- labels

5.1.1 Method: is_synced_issue

Verify whether the ticket is already synced or not.

from IssueSyncTool.tracker import TrackerService

from IssueSyncTool.tracker import JiraTracker

- 5.1.2 Method: connect
- 5.1.3 Method: get_ticket
- 5.1.4 Method: get_tickets
- 5.1.5 Method: create_ticket
- 5.1.6 Method: update_ticket
- 5.2 Class: GithubTracker

Imported by:

from IssueSyncTool.tracker import GithubTracker

- 5.2.1 Method: connect
- 5.2.2 Method: get_tickets
- 5.2.3 Method: get_ticket
- 5.2.4 Method: create_ticket
- 5.2.5 Method: update_ticket
- 5.3 Class: GitlabTracker

Imported by:

from IssueSyncTool.tracker import GitlabTracker

Tracker client to integrate with issues on Gitlab.

Except, get_tickets which allow to get issues from gitlab, group and project level, other method requires project information to interact properly with inside issues. issuesynctool-tracker-gitlabtracker-connect ------

- 5.3.1 Method: get_ticket
- 5.3.2 Method: get_tickets
- 5.3.3 Method: create_ticket
- 5.3.4 Method: update_ticket
- 5.4 Class: RTCTracker

Imported by:

 ${\tt from\ IssueSyncTool.tracker\ import\ RTCTracker}$

- 5.4.1 Method: connect
- 5.4.2 Method: get_ticket
- 5.4.3 Method: get_tickets
- 5.4.4 Method: create_ticket
- 5.4.5 Method: update_ticket
- 5.5 Class: Tracker

Imported by:

from IssueSyncTool.tracker import Tracker

- 5.5.1 Method: create
- ${\bf 5.5.2} \quad Method: \ get_support_trackers$

user.py

6.1 Class: User

Imported by:

from IssueSyncTool.user import User

6.2 Class: UserManagement

 $Imported\ by:$

from IssueSyncTool.user import UserManagement

6.2.1 Method: get_user

Appendix

About this package:

Table 7.1: Package setup

Setup parameter	Value
Name	IssueSyncTool
Version	0.0.1
Date	01.11.2024
Description	Tool to synchronize issues between trackers (Github Issue, Gitlab Issue, RTC, JIRA)
Package URL	python-issue-sync-tool
Author	Tran Duy Ngoan
Email	Ngoan.TranDuy@vn.bosch.com
Language	Programming Language :: Python :: 3
License	License :: OSI Approved :: Apache Software License
OS	Operating System :: OS Independent
Python required	>=3.0
Development status	Development Status :: 4 - Beta
Intended audience	Intended Audience :: Developers
Topic	Topic :: Software Development

History

0.0.1	11/2024
Initial version	

IssueSyncTool.pdf

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