Steps to create Functional Area in jira - *Semi-Automated*

Pre-requisites

- Python 2.7.X is installed on the machine
- Pip is installed on the machine (Python 2.7.9 and later includes pip)
- Python and Pip must be added to the Path environment variable
- execute the command - pip install requests

Steps

1. Create a csv file with two columns - Functional Area Name and Target No of E2E Tests
2. Add one row for each Functional Area required with the target No of E2E tests required in column 2
3. Trigger this python script by passing the below parameters in the mentioned order
    a. scriptName
    b. Jira User Name used to connect with JIRA server
    c. Jira Password for the mentioned user name
    d. Jira project where the tickets are to be created

e. csv file containing all the Functional Areas to be created
   Example: python create_product_features-1.py rguptha **** ECPAT1 features.csv

4. The tool will not create a feature that already exists in JIRA
5. After successful completion of the run, output file shall contain the feature name and its respective jira ticket link.

Steps to populate JIRA from old Traceability Matrix sheet - ***Automated***

Pre-requisites

- For a given product, this sheet is populated with the list of Functional Areas required
- The list of End-to-End Tests are listed down on the columns
- For each Functional Area, Target No of E2E tests are mentioned as found in the Product ABC sheet
- The intersection cells are marked as x

Checklist

1. Before requesting for an auto-sync
    a. The product sheet matches the template as defined on the template (aka Product ABC) sheet.
    b. 3 columns namely - % E2E Test coverage, Target # E2E and Total are present

Limitations

1. Auto-sync could be triggered only once per project
2. Request to sync is received on or before 31st August

Steps

1. Contact Rajesh through email, skype or slack (@rajesh.guptha) and mention the following details -
    a. Project Name to sync
    b. Exact sheet link within this document

Expected output

1. All the Functional Areas lines as mentioned on the sheet are created as JIRA tickets in the respective JIRA project
2. Each Functional Area to have the value for Target # of E2E Tests as specified on the column Target #E2E
3. Each Functional Area to have one ore more links to all E2E Tests for the respective “x”s marked on the sheet
4. After Auto-sync is done, the following day, JIRA project to have its own dedicated tab here on the final traceability Matrix

Steps to link Product Feature and End-To-End tests - *Manual*

1. Query the list of End-to-End Test that needs to be linked to Product features. Sample jql - project = "Kerio Connect" and type = "End-to-end Test"
2. Open one End-to-end Test ticket at a time and edit the ticket
3. On the edit form, search and select one or more Product Feature in the field called - “**Product Feature(s) covered**”
4. This shall create standard JIRA links of type "covers" between the selected End-to-End Test and Product Feature tickets

NOTE: Do not manually link the two tickets bye-passing the custom field. This could result in losing the links when later-on the custom field is used on the same ticket.

Generating the Traceability matrix - *Automated*

1. On a nightly basis (at 12AM UTC) for each jira project taken from Products Master sheet (with Lifecycle stage as In model or Import), all End-to-End Test tickets are extracted and created on columns
2. All Product Features are extracted and inserted on rows. Only two fields are captured - Summary and Target No of End-To-End Test
3. For each End-to-End test ticket, it picks all the linked Product Feature through the "covers" link type, and marks an x on the respective intersected cell on the sheet.
4. Final sheet could be found here

NOTE: all the sheets with [D] at their beginning are re-created on a nightly basis.

Updating Sign-off from BU/Support - *Manual*

1. Sign off is to be received from BU/support on each product features defined per product from BU and/or support as applicable.
2. Once sign-off is received, each Product Feature ticket needs to be updated with the following details
    a. Update field called BU/Support Signed Off? With the value = Yes
    b. Attach the email approval received from BU/Support