Python Automation

Friday, September 22, 2023

10:17 PM

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| Path | c:\Swapnil\Tool\_To\_Install\py-jama-rest-client-master\py-jama-rest-client-master\ |  |  |
| How to run | * + Open above path in visual studio code   + Open terminal in Visual studio code   + Check if python is installed by typing python   + Run gui.py file by giving command "**python .\examples\gui.py**" |  |  |
| How to make .exe | * + Install pip install pysimplegui-exemaker     - Run command   **python -m pysimplegui-exemaker.pysimplegui-exemaker**    From <[*https://pypi.org/project/pysimplegui-exemaker/*](https://pypi.org/project/pysimplegui-exemaker/)> |  |  |
| Drive | <https://drive.google.com/drive/folders/1F344t19zaBASaoP7odikOX6tnBlVMZ4X> | 1.6.1 |  |

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| Sr no | Release status | Python files | Revision | Features | Improvements |
| 1 |  | Gui.py | 1.0 | Able to Link to Jama items with Downstream relationship and Get relationships , Note -Put button doenst work |  |
| 2 |  |  | 1.1 | Menu Bar added |  |
| 3 |  |  | 1.2 | Linking via excel column one column From item API\_ID to To item API\_ID | <<gui.py>> |
| 4 |  | <<gui.py>> | 1.3 | Radio option added for selecting of Uplink or Downlink linking |  |
| 5 | Initial release | <https://drive.google.com/drive/folders/1v-lZtTVNp7T8wCXrCNfkjfDnFobtqmuX?usp=sharing> | 1.4 | Tested at Aswin PC -  GUI launches fine can see GUI history and image and Debugger window  Aesthetics are fine  Tested at Srinivas  Launched Debugger - prints all statements  Tested Linking of two requirements - linking confirmed as a downstream  Srinivas didn’t have python but gui launched - need to confirm this      Testing pending  Excel test  Need to change credentials as it shows my name only  Shall add option for credentials - maybe file - maybe input to enter password and username | Add radio button to select upstream/Downstream and do reverse in python code (from item <-> to\_item) accordingly  Add option to browse excel and give column details to link  Show output /trace window  Create .exe and share across  Make GUI aesthetically good  Contact - my mail id  All features supported  Can add tab - one tab for excel and another for two elements  Issue - image and rev.txt doesn’t embed in .exe , may give relative path  Need to verify jama credentials work as its given mine  Instead of "fetch" button say "link"  Just print col id to understand if GUI takes input correctly don’t link  Tooltip can be added  Progress bar can be updated based on no of requirements  Status -Done and after delay going back to 0 |
|  |  |  |  | Resolution:  \*.xls format doesn’t work - open excel and save as \*.xlsx format | Traceback (most recent call last):  File "gui.py", line 181, in <module>  File "gui.py", line 27, in Downstream\_work  File "openpyxl\reader\excel.py", line 344, in load\_workbook  File "openpyxl\reader\excel.py", line 123, in \_\_init\_\_  File "openpyxl\reader\excel.py", line 93, in \_validate\_archive  openpyxl.utils.exceptions.InvalidFileException: openpyxl does not support the old .xls file format, please use xlrd to read this file, or convert it to the more recent .xlsx file format. |
| 6 |  |  | 1.5 | #Aesthetic changed and Demo linking via excel option added | Make GUI aesthetically good  Can add tab - one tab for excel and another for two elements  Issue - image and rev.txt doesn’t embed in .exe , may give relative path  Instead of "fetch" button say "START"  Just print col id to understand if GUI takes input correctly don’t link  Tooltip can be added  Progress bar can be updated based on no of requirements  Status -Done and after delay going back to 0  Shall add option for credentials - maybe file - maybe input to enter password and username |
| 7 |  |  | 1.6 | #Option to add users jama credentials    Testing  Need to test with someone elses credentials if it take effect or not  By default credentials are mine - need to remove them | Can add tab - one tab for excel and another for two elements  Issue - image and rev.txt doesn’t embed in .exe , may give relative path  Shall add option for credentials - maybe file - maybe input to enter password and username  Add ReadMe launch |
|  |  |  |  |  | have admin access with password add menu to activate  Every gui launch need to of load/fetch JC , should fetch auto |
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| 8 |  | <<MGui.py>> | 1.6.1 | Release - tested on Sudheer PC worked fine (Linking works) | By default credentials are mine - need to remove them  Everytime we need to add jama credentials, we need to fetch it from settings.txt  Add ReadMe launch  Can add tab - one tab for excel and another for two elements  Issue - image and rev.txt doesn’t embed in .exe , may give relative path  Remove relationship - uplink using GUI same excel data  Generate reports - logs of linked data from debug window |
|  |  |  | 1.7 | Verification criteria of a single item can be updated |  |
|  |  |  | 1.8 | same Verification criteria updation to multiple item |  |
|  |  |  | 1.8.1 | Fetch current Verification criteria and Update on top of it  Fetch in excel column and we can update in excel |  |
|  |  | Future GUI |  | Able to edit item description  Able to generate list of items with downlink to system to sw  Able to edit /delete(remove) relationship  Generate reports or chart  We cant update verification criteria batch edit, need to make automation |  |
|  |  |  |  | KPI - GUI  Gives KPI about all system Engg activities in Jama  No New Requirements  Modified or updated  Approved/In review/Draft  Project wise / sub system wise  Link missing finding  SWRT | Deletion of Multiple Relationship uplink Started  API ID = 2114788  [{'id': 392275, 'fromItem': 399497, 'toItem': 2114788, 'relationshipType': 4, 'suspect': False, 'type': 'relationships'}]  Relationship ID = 392275  DAIM-DAIM-5474  204  201  API ID = 2114789  [{'id': 392276, 'fromItem': 399499, 'toItem': 2114789, 'relationshipType': 4, 'suspect': False, 'type': 'relationships'}]  Relationship ID = 392276  DAIM-DAIM-5476  204  201  API ID = None  Number of items updated = 6  Operation successfull = 1 |
|  |  |  | 1.9 |  |  |
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Loss of connection

Traceback (most recent call last):

File "urllib3\connection.py", line 203, in \_new\_conn

File "urllib3\util\connection.py", line 60, in create\_connection

File "socket.py", line 962, in getaddrinfo

socket.gaierror: [Errno 11001] getaddrinfo failed

The above exception was the direct cause of the following exception:

Traceback (most recent call last):

File "urllib3\connectionpool.py", line 790, in urlopen

File "urllib3\connectionpool.py", line 491, in \_make\_request

File "urllib3\connectionpool.py", line 467, in \_make\_request

File "urllib3\connectionpool.py", line 1092, in \_validate\_conn

File "urllib3\connection.py", line 611, in connect

File "urllib3\connection.py", line 210, in \_new\_conn

urllib3.exceptions.NameResolutionError: <urllib3.connection.HTTPSConnection object at 0x00000154119B64D0>: Failed to resolve 'luminar.jamacloud.com' ([Errno 11001] getaddrinfo failed)

The above exception was the direct cause of the following exception:

Traceback (most recent call last):

File "requests\adapters.py", line 486, in send

File "urllib3\connectionpool.py", line 844, in urlopen

File "urllib3\util\retry.py", line 515, in increment

urllib3.exceptions.MaxRetryError: HTTPSConnectionPool(host='luminar.jamacloud.com', port=443): Max retries exceeded with url: /rest/oauth/token (Caused by NameResolutionError("<urllib3.connection.HTTPSConnection object at 0x00000154119B64D0>: Failed to resolve 'luminar.jamacloud.com' ([Errno 11001] getaddrinfo failed)"))

During handling of the above exception, another exception occurred:

Traceback (most recent call last):

File "MGui.py", line 281, in <module>

File "MGui.py", line 150, in win2

File "py\_jama\_rest\_client\client.py", line 69, in \_\_init\_\_

File "py\_jama\_rest\_client\core.py", line 44, in \_\_init\_\_

File "py\_jama\_rest\_client\core.py", line 129, in \_\_get\_fresh\_token

File "requests\api.py", line 115, in post

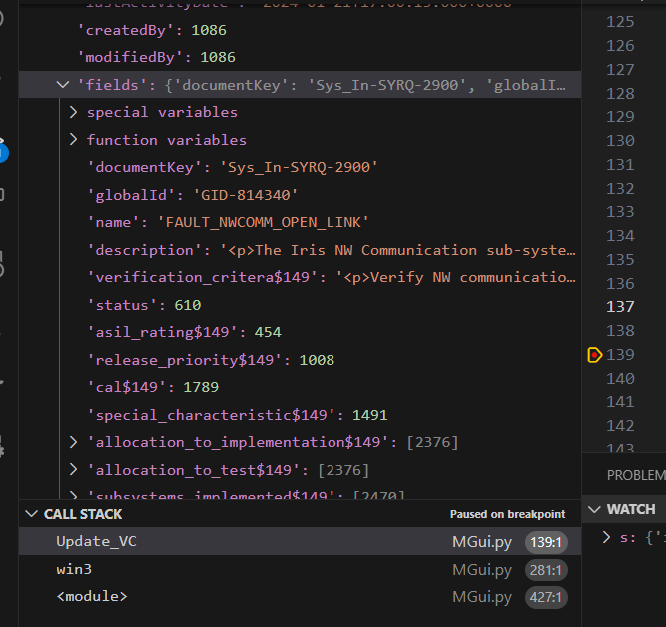
File "requests\api.py", line 59, in request

File "requests\sessions.py", line 589, in request

File "requests\sessions.py", line 703, in send

File "requests\adapters.py", line 519, in send

requests.exceptions.ConnectionError: HTTPSConnectionPool(host='luminar.jamacloud.com', port=443): Max retries exceeded with url: /rest/oauth/token (Caused by NameResolutionError("<urllib3.connection.HTTPSConnection object at 0x00000154119B64D0>: Failed to resolve 'luminar.jamacloud.com' ([Errno 11001] getaddrinfo failed)"))



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| Sr No | Standard function returns | Data |  |  |
| 1 | jama\_client2.get\_item(Api\_item) | Return all fields of item with API ID | {  'id': 2270912,  'documentKey': 'Sys\_In-SYRQ-2900',  'globalId': 'GID-814340',  'itemType': 149,  'project': 406,  'createdDate': '2024-01-21T16:59:45.000+0000', 'modifiedDate': '2024-01-21T17:00:13.000+0000', 'lastActivityDate': '2024-01-21T17:00:13.000+0000', 'createdBy': 1086, 'modifiedBy': 1086,  'fields':  {  'documentKey': 'Sys\_In-SYRQ-2900',  'globalId': 'GID-814340',  'name': 'FAULT\_NWCOMM\_OPEN\_LINK',  'description': '<p>The Iris NW Communication sub-system shall <span style="font-weight:bold">Monitor</span>, …</p>',  'verification\_critera$149': 'hhjh',  'status': 610,  'asil\_rating$149': 454,  'release\_priority$149': 1008,  'cal$149': 1789, ...},  'resources': {'self': {...}},  'location': {'sortOrder': 0, 'globalSortOrder': 587225552, 'sequence': '1.3.1.1.1', 'parent': {...}},  'lock': {'locked': False, 'lastLockedDate': '2024-01-21T17:00:14.000+0000'},  ...} |  |
|  |  | Api\_item = 2270820    Status =    jdata = jama\_client4.get\_item(Api\_item) | Item data =    {'id': 2270820, 'documentKey': 'Sys\_In-SYRQ-2895',  'globalId': 'GID-814330',  'itemType': 149,  'project': 406,  'createdDate': '2024-01-21T09:19:16.000+0000',  'modifiedDate': '2024-03-19T11:11:55.000+0000',  'lastActivityDate': '2024-03-19T11:11:55.000+0000',  'createdBy': 1086,  'modifiedBy': 1086,  'fields':  {'documentKey': 'Sys\_In-SYRQ-2895',  'globalId': 'GID-814330',  'name': 'FAULT\_NWCOMM\_OPEN\_LINK',  'description': '<p>The Iris NW Communication sub-system shall <span style………  'status': 728, - plan of record  'asil\_rating$149': 454,  'release\_priority$149': 1008,  'cal$149': 1789,  'special\_characteristic$149': 1491,  'allocation\_to\_implementation$149': [2376],  'allocation\_to\_test$149': [2376],  'subsystems\_implemented$149': [2470]},  'resources': {'self': {'allowed': ['GET', 'PUT', 'PATCH', 'DELETE']}},  'location': {'sortOrder': 0, 'globalSortOrder': 587215895, 'sequence': '1.2.2.1.1.1', 'parent': {'item': 2270818}}, 'lock': {'locked': False},  'type': 'items'  } |  |
|  | Status  Plan of record = 728  TO Be defined = 609  Draft = 610  Under review = 295  Rejected = 597  To be resolved = 292  Approved = 293 | Api\_item = 2270821    jdata = jama\_client4.get\_item(Api\_item) | Item data =  {  'id': 2270821,  'documentKey': 'Sys\_In-SYRQ-2896',  'globalId': 'GID-814331',  'itemType': 149, 'project': 406,  'createdDate': '2024-01-21T09:19:16.000+0000',  'modifiedDate': '2024-01-21T09:19:16.000+0000',  'lastActivityDate': '2024-01-21T09:19:35.000+0000',  'createdBy': 1086,  'modifiedBy': 1086,  'fields':  {  'documentKey': 'Sys\_In-SYRQ-2896',  'globalId': 'GID-814331',  'name': 'FAULT\_NWCOMM\_SHORT\_LINK',  'description': '<p>The Iris NW Communication sub-syst…….,  'status': 610, - Draft  'asil\_rating$149': 454,  'release\_priority$149': 1008,  'cal$149': 1789,  'special\_characteristic$149': 1491,  'allocation\_to\_implementation$149': [2376],  'allocation\_to\_test$149': [2376],  'subsystems\_implemented$149': [2470]},  'resources': {'self': {'allowed': ['GET', 'PUT', 'PATCH', 'DELETE']}},  'location': {'sortOrder': 1, 'globalSortOrder': 587218041, 'sequence': '1.2.2.1.1.2', 'parent': {'item': 2270818}},  'lock': {'locked': False},  'type': 'items'  } |  |
|  |  | Api\_item = 2270822    jdata = jama\_client4.get\_item(Api\_item) | client ID= kwxt2qcnup2eyky  client Secret code= w8knzuhhoqqmc1h1dc34gnnzn  Item data =  {'id': 2270822, 'documentKey': 'Sys\_In-SYRQ-2897', 'globalId': 'GID-814332', 'itemType': 149, 'project': 406, 'createdDate': '2024-01-21T09:19:16.000+0000', 'modifiedDate': '2024-03-19T11:12:08.000+0000', 'lastActivityDate': '2024-03-19T11:12:08.000+0000', 'createdBy': 1086, 'modifiedBy': 1086, 'fields': {'documentKey': 'Sys\_In-SYRQ-2897', 'globalId': 'GID-814332', 'name': 'FAULT\_NWCOMM\_REV\_POLARITY', 'description': '<p>The Iris NW Communicat  ', 'status': 295, - Under Review  'asil\_rating$149': 454, 'release\_priority$149': 1008, 'cal$149': 1789, 'special\_characteristic$149': 1491, 'allocation\_to\_implementation$149': [2376], 'allocation\_to\_test$149': [2376], 'subsystems\_implemented$149': [2470]}, 'resources': {'self': {'allowed': ['GET', 'PUT', 'PATCH', 'DELETE']}}, 'location': {'sortOrder': 2, 'globalSortOrder': 587219114, 'sequence': '1.2.2.1.1.3', 'parent': {'item': 2270818}}, 'lock': {'locked': False}, 'type': 'items'} |  |
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