

Guide to using PyWrike

What is PyWrike?

PyWrike is a python library that we can use to manipulate data in Wrike space by using an excel sheet and API calls.

Different functions in PyWrike

- `wrike_export_main`

This function is used to export task data from a wrike space to an excel spreadsheet, including custom fields.

- `new_space_main`

This function is used to create a new space by extracting data from another space and populate it the same way.

Note! The new space created will only have tasks that exist in the extracted space. If you have, for example, a parent task in another space but the subtasks are available in the extracted space, the code will create the subtasks as standalone tasks as the parent task does not exist in extracted space. So make sure that all parent tasks exist in extracted space.

- `create_delete_folders_main`

This function is used to create or delete folders in a space, specified in an excel spreadsheet.

- `create_update_tasks_main`

This function is used to create or update existing tasks with tags (assign the task to another folder), specified in an excel spreadsheet.

- `propagate_tasks_main`

This function is used to duplicate folders or tasks in other folders within the space, specified in an excel spreadsheet.

- `api_calls_main`

This function is used to call simple api calls, which will be available as a menu:

```
Select an option:
1. Fetch All Tasks
2. Fetch Tasks by Space Name
3. Fetch All Contacts
4. Fetch Specific Contact by Name
5. Fetch All Comments
6. Fetch All Folders
7. Fetch Folders by Space Name
8. Exit
Enter the number of your choice: █
```

How to use PyWrike?

To use PyWrike, you need to make sure you use the template provided named “Configuration.xlsx” and you do not change the name of headings or sheets.

In the Configuration.xlsx, the first sheet is named Config and it has the following headings:

Enter the personal access token if you have	Enter the client ID from wrike	Enter the client secret from wrike	make sure that the redirect uri below is registered on wrike	Enter the name of the space from which you want to extract data into excel sheet	Enter the name of the new space you are creating	Enter the name of the space in which you want to create or delete folders
Token token here....	Client ID client id here....	Client Secret client secret here....	Redirect URI http://localhost:19877	Space to extract data from Space name	New Space Title Space name	Project Folder Path Space name

If you have a personal access token, you fill in the first column. If not, fill in client id, client secret, and redirect uri for the code to use oauth method.

Once you fill in the first sheet, you can fill in the others based on the function you require.

1. For `api_calls_main`, `new_space_main` and `wrike_export_main`, config sheet is enough.
2. For `propagate_tasks_main`, fill in the sheet “Propagate”. A sample can be found in the template:

Space Name	Source Path	Task Title	Destination Path
WIP 01	WIP 01\Modèle 01\Dossier 03	Task 12	WIP 01\Projet prod 06
WIP 01	WIP 01\Modèle 01\Dossier 02		WIP 01\Projet prod 01
WIP 01	WIP 01\Modèle 01\Dossier 02		WIP 01\Projet prod 02
WIP 01	WIP 01\Modèle 01\Dossier 02		WIP 01\Projet prod 03
WIP 01	WIP 01\Modèle 01\Dossier 02		WIP 01\Projet prod 04

If you fill in the Task title, it will propagate only that task into the destination path. If you leave Task Title blank, it will propagate the whole folder in the source path to the destination path.

3. For create_update_tasks, fill in the sheet 'Tasks'. A sample can be found in the template:

Space Name	Parent Task Title	Folder Path	Title	Priority	FirstName	LastName	Email	Start Date	End Date	Description	Name of custom field
Trial		Trial\Organisation	Tache 03	Normal	Jane	Doe	janedoe@tech				
Trial		Trial\Organisation\Lancer projet voe	Tache 05	Normal	Jane	Doe	janedoe@tech				
Trial	Tache 01	Trial\Organisation	Tache 09								
Trial	Tache 01	Trial\Organisation	Tache 10								

If you are creating or updating a subtask, you need to enter the Parent Task Title, otherwise if it is a standalone task, Parent Task Title needs to be blank.

For custom fields, replace the heading "Name of custom field" with the name of the custom field as it is in the space, and you can add as many columns of custom field as you want. For custom field of type checkbox, put true when it needs to be checked and leave blank if not (do not put false). For custom field of type multiple select, if there are multiple values you need to place them in square bracket separated by commas. For example, [red, blue, yellow]. For duration, it needs to be in the format "01:30".

4. For create_delete_folders, fill in the Project Folder Path in Config and the sheet "Projects". A sample can be found in the template:

Create Project Title	Create Folders	Delete Project Title	Delete Folders
Projet prod 01	Folder 2	Projet prod 01	Folder 1
Projet prod 02	Folder 2	Projet prod 02	Folder 1
Projet prod 03	Folder 2	Projet prod 03	Folder 1
Projet prod 04	Folder 2	Projet prod 04	Folder 1
Projet prod 05	Folder 2	Projet prod 05	Folder 1
Projet prod 06	Folder 2	Projet prod 06	Folder 1
Projet prod 07	Folder 2	Projet prod 07	Folder 1
Projet prod 08	Folder 2	Projet prod 08	Folder 1
Projet prod 09	Folder 2	Projet prod 09	Folder 1
Projet prod 10	Folder 2	Projet prod 10	Folder 1
Projet prod 01	Folder 3		
Projet prod 02	Folder 3		
Projet prod 03	Folder 3		
Projet prod 04	Folder 3		
Projet prod 05	Folder 3		
Projet prod 06	Folder 3		
Projet prod 07	Folder 3		
Projet prod 08	Folder 3		
Projet prod 09	Folder 3		
Projet prod 10	Folder 3		

And to use the functions, simply write a python script after using

Pip install PyWrike

```
import PyWrike
from PyWrike.api_calls import api_calls_main

api_calls_main()
```

The same should be done for the different functions:

From PyWrike.wrike_export import wrike_export_main

From PyWrike.new_space import new_space_main

From PyWrike.create_delete_folders import create_delete_folders_main

From PyWrike.create_update_tasks import create_update_tasks_main

From PyWrike.propagate_tasks import propagate_tasks_main