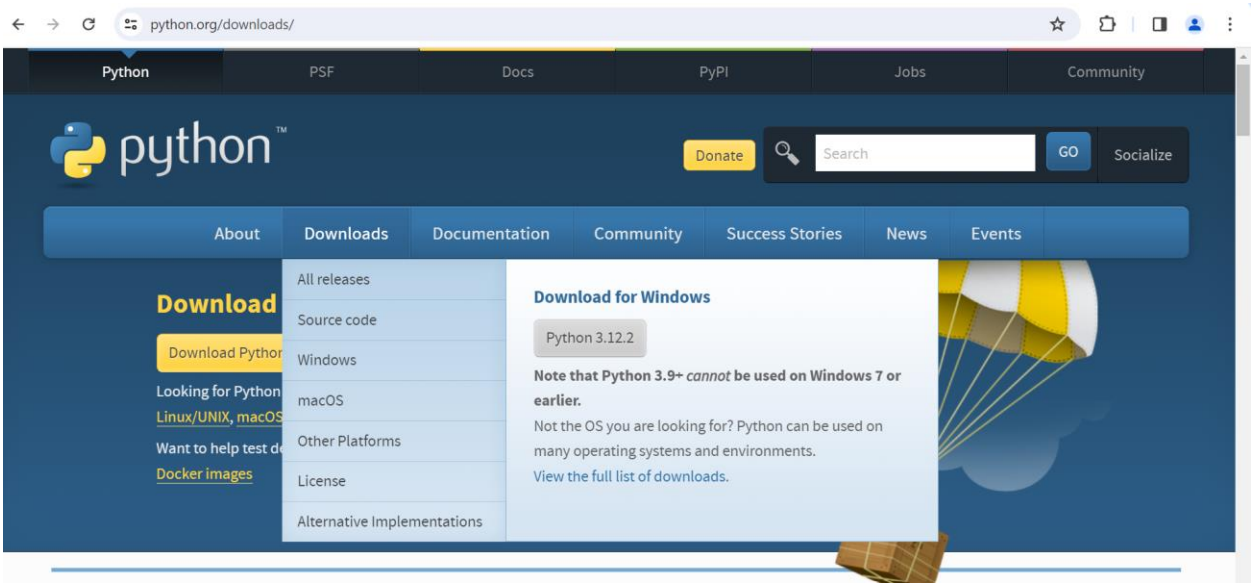
Automation Setup

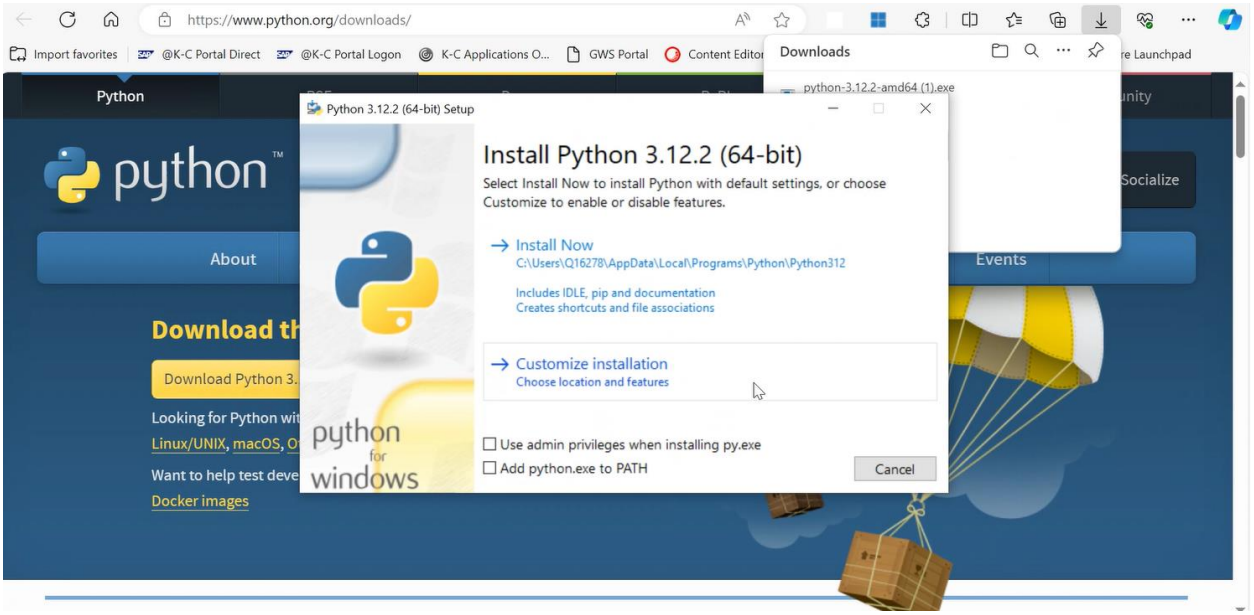
Download the Python and PyCharm from browser:

https://www.python.org/downloads/

Download Python 3.11 or latest version



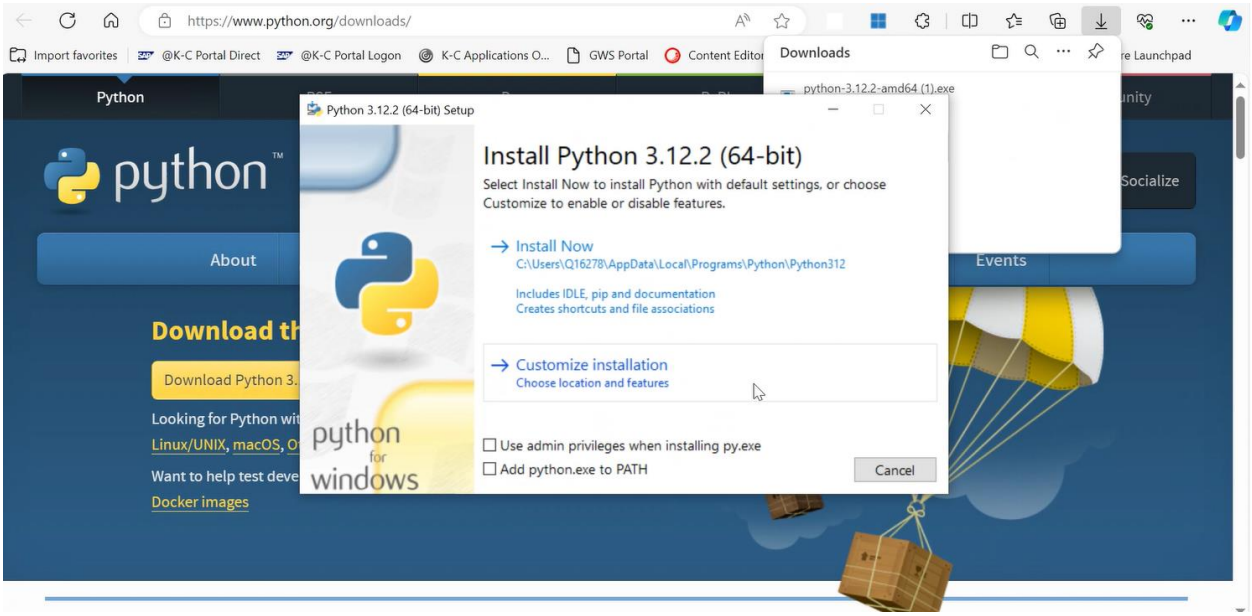
After downloading python, click on exe file->customize installation and give any path >click on install now- >install progress->click Next ->Set up was successful



Go to path you have added in the customization eg: C:\Program Files (x86)\Python\Scripts

We should configure the path

Right click on PC->Properties->Go to advanced system settings->Env Variables->System variables ->Select path variable->Click Edit->Click On NEW->Add the path C:\Program Files (x86)\Python\Scripts



*To check whether Python is installed or not.

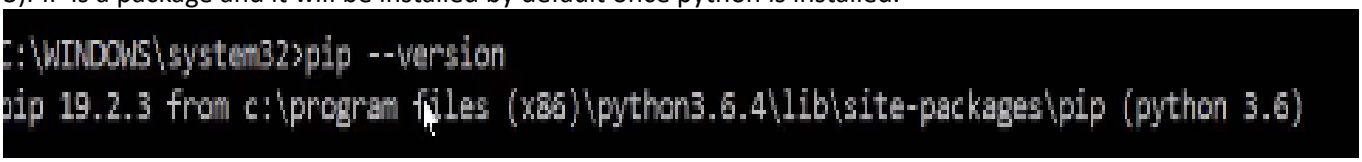
1) Open CMD as an administrator

2) In CMD: type this command

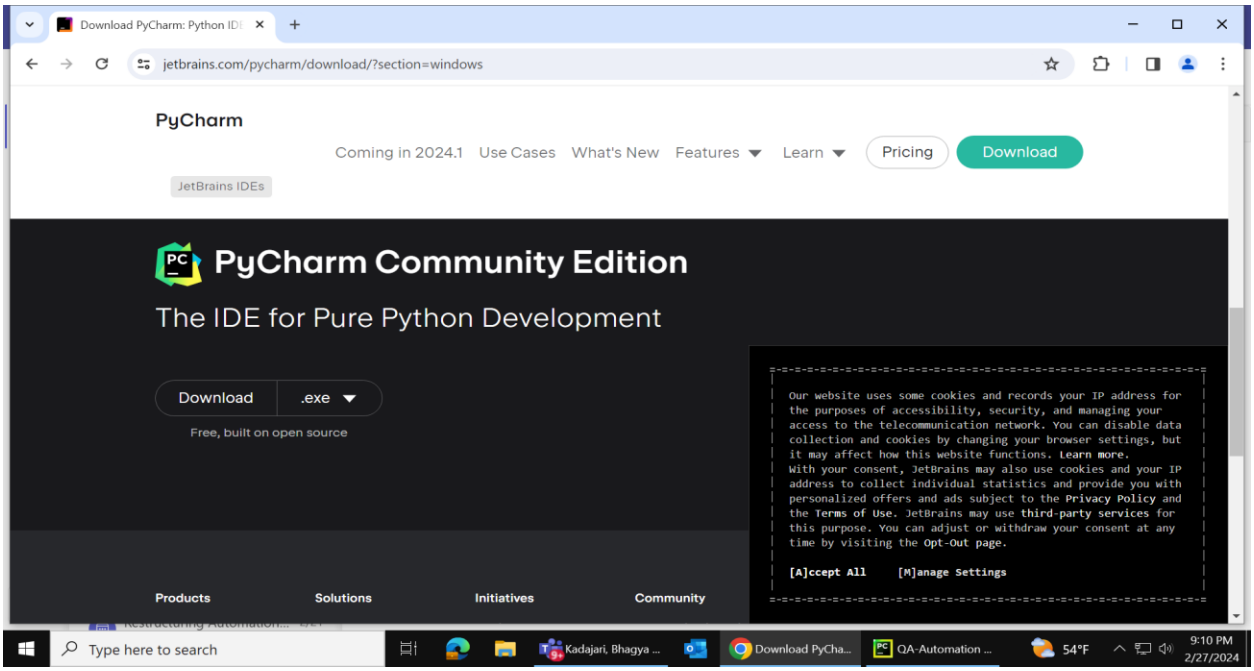
and click on enter

It confirms that python is installed in the system.

3)PIP is a package and it will be installed by default once python is installed.



Download PyCharm 2022.3.1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The IDE for Pure Python Development
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[M]anage Settings
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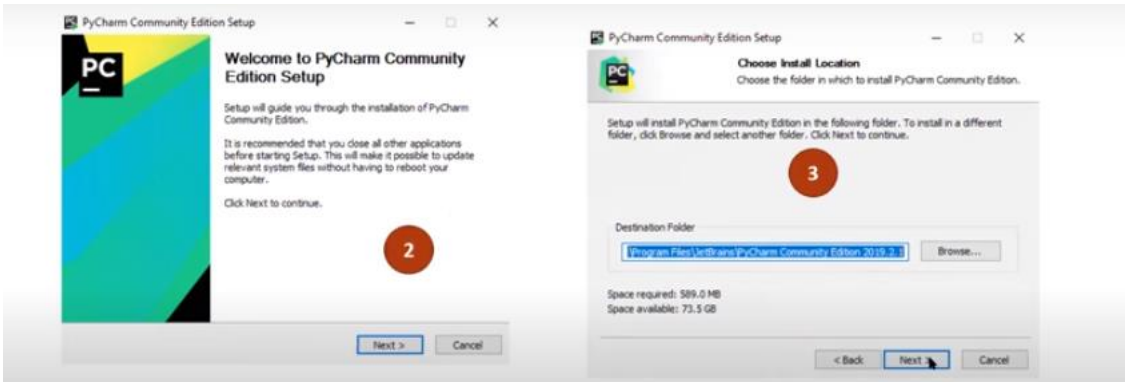
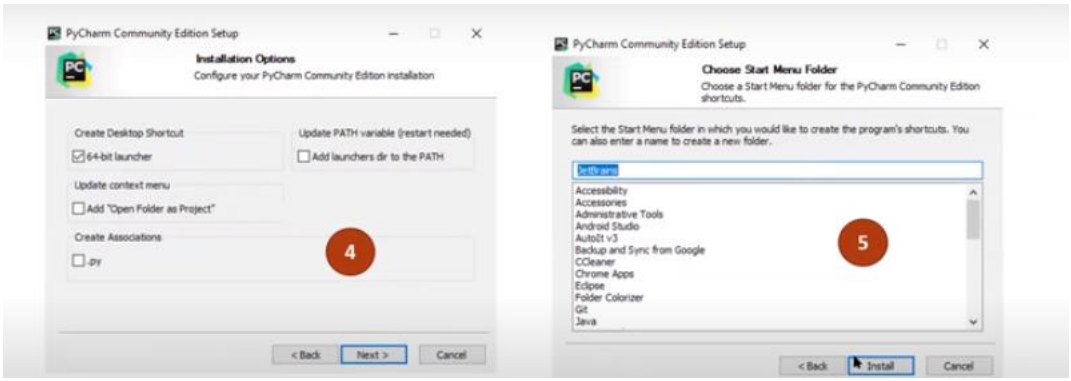
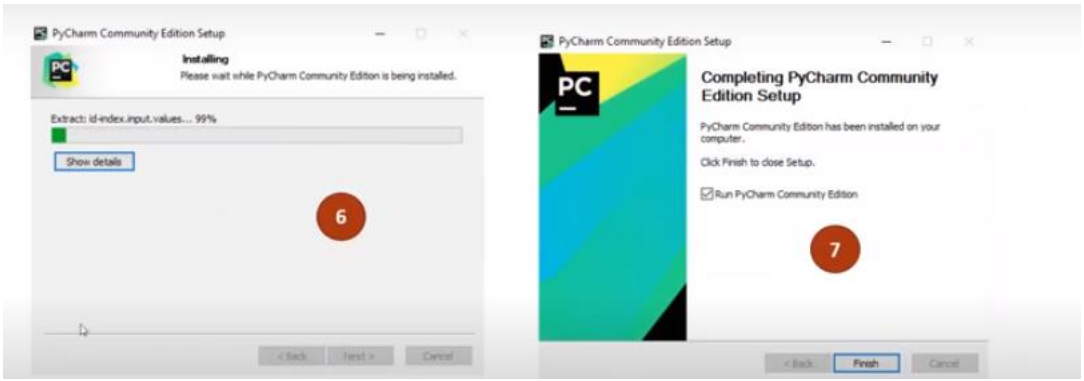
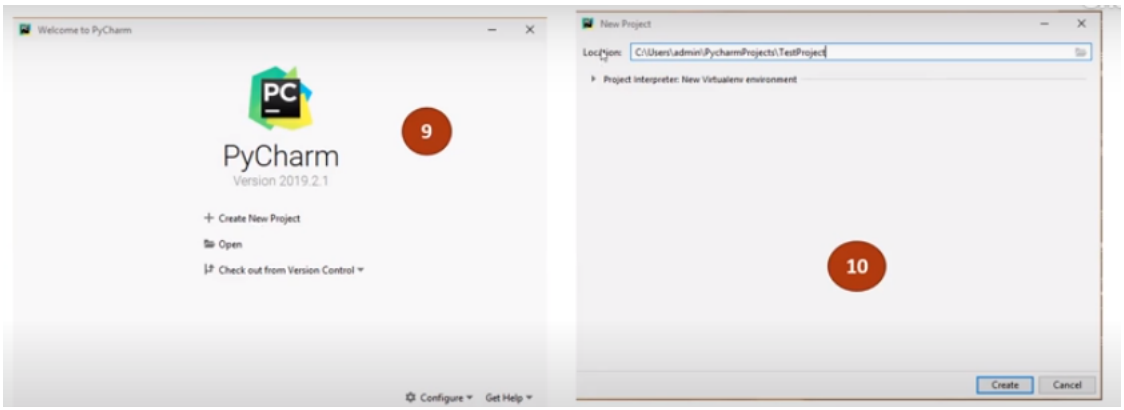
Solutions
Initiatives
Community
Type here to search
Kadajari, Bhagya ...
Download PyCha...
QA-Automation ...
54°F
9:10 PM
2/27/2024


PyCharm Community Edition Setup
Welcome to PyCharm Community Edition Setup
Setup will guide you through the installation of PyCharm Community Edition.
It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.
Click Next to continue.
2
Next >
Cancel
PyCharm Community Edition Setup
Choose Install Location
Choose the folder in which to install PyCharm Community Edition.
Setup will install PyCharm Community Edition in the following folder. To install in a different folder, click Browse and select another folder. Click Next to continue.
3
Destination Folder
C:\Program Files\JetBrains\PyCharm Community Edition 2019.2.1
Browse...
Space required: 589.0 MB
Space available: 73.5 GB
< Back
Next >
Cancel


PyCharm Community Edition Setup
Installation Options
Configure your PyCharm Community Edition installation
Create Desktop Shortcut
64-bit launcher
Update PATH variable (restart needed)
Add launchers dir to the PATH
Update context menu
Add "Open Folder as Project"
Create Associations
.py
4
< Back
Next >
Cancel
PyCharm Community Edition Setup
Choose Start Menu Folder
Choose a Start Menu folder for the PyCharm Community Edition shortcuts.
Select the Start Menu folder in which you would like to create the program's shortcuts. You can also enter a name to create a new folder.
JetBrains
Accessibility
Accessories
Administrative Tools
Android Studio
AutoIt v3
Backup and Sync from Google
CCleaner
Chrome Apps
Eclipse
Folder Colorizer
Git
Java
5
< Back
Install
Cancel





3. Install selenium

```
C:\WINDOWS\system32>pip install selenium
Collecting selenium
  Using cached https://files.pythonhosted.org/packages/80/d6/4294f0b4bce4de0abf13e17190289f9d0613b0a44e5dd6a7f5ca9845985
3/selenium-3.141.0-py2.py3-none-any.whl
Requirement already satisfied: urllib3 in c:\program files (x86)\python3.6.4\lib\site-packages (from selenium) (1.23)
Installing collected packages: selenium
Successfully installed selenium-3.141.0
```

4.Install RobotFramework

```
C:\WINDOWS\system32>pip install robotframework
Collecting robotframework
  Using cached https://files.pythonhosted.org/packages/22/0f/1b9ffa0c4e59789b50e6034866e823b7d4a5c7
Installing collected packages: robotframework
Successfully installed robotframework-3.1.2

C:\WINDOWS\system32>pip show robotframework
```

5.Install RobotFrameworkSeleniumLibrary

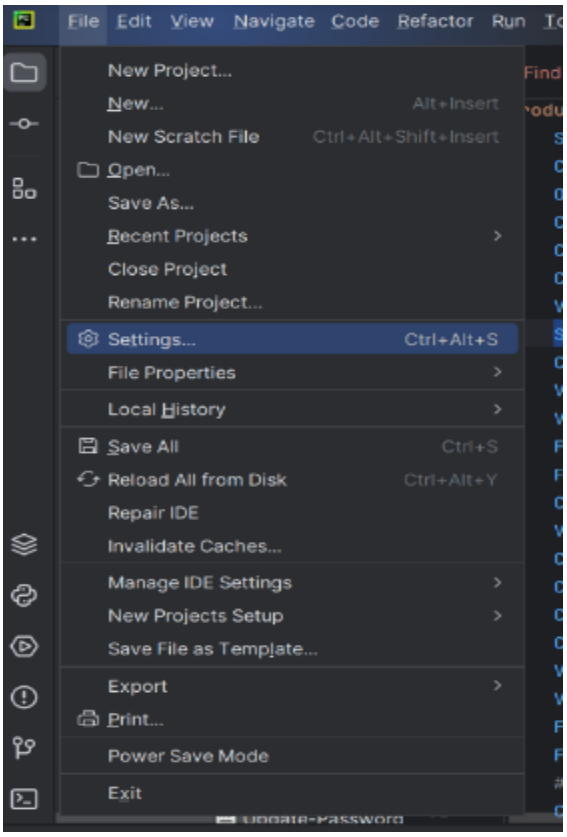
```
Administrator: Command Prompt

C:\WINDOWS\system32>pip install robotframework-seleniumlibrary
Collecting robotframework-seleniumlibrary
  Using cached https://files.pythonhosted.org/packages/ff/15/6961c801eeec7f062973509958b33f158
ny.whl
Requirement already satisfied: robotframework>=2.8.7 in c:\program files (x86)\python3.6.4\lib
Requirement already satisfied: selenium>=3.4.0 in c:\program files (x86)\python3.6.4\lib\site-
Requirement already satisfied: urllib3 in c:\program files (x86)\python3.6.4\lib\site-packages
Installing collected packages: robotframework-seleniumlibrary
Successfully installed robotframework-seleniumlibrary-3.3.1
```

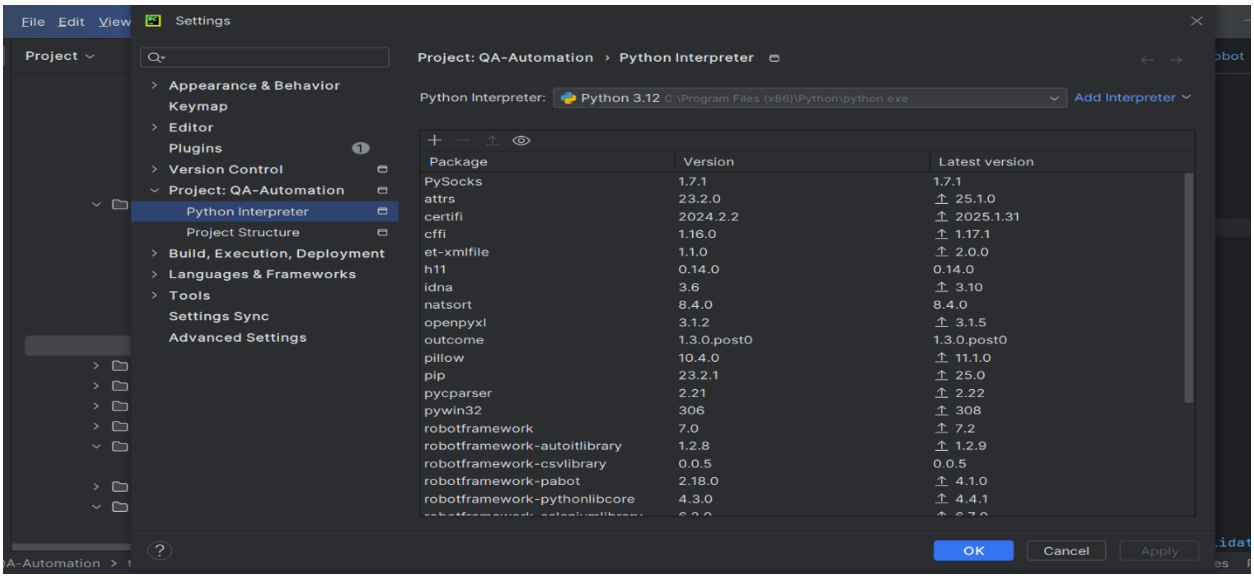
Below are the libraries to be installed in PyCharm:

Steps:

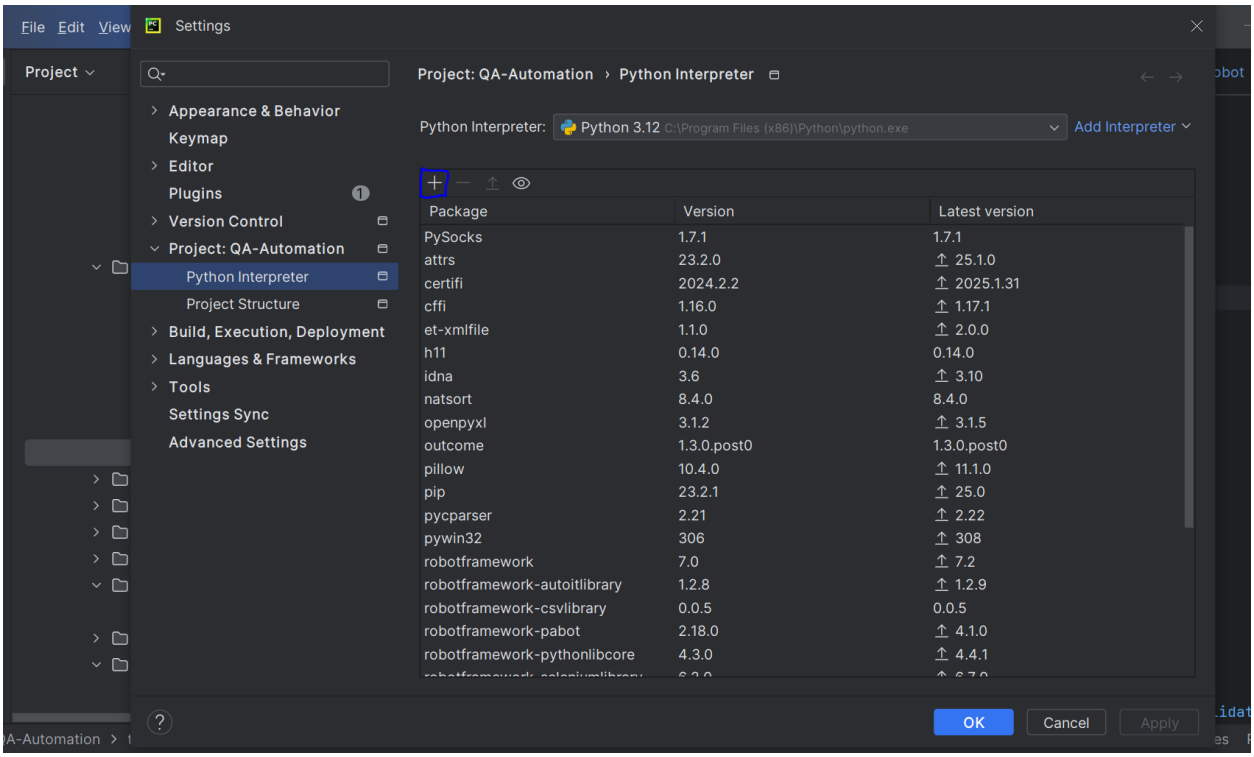
1. Click on file and click on settings in PyCharm



2. Click on **python interpreter** under Project: QA-Automation

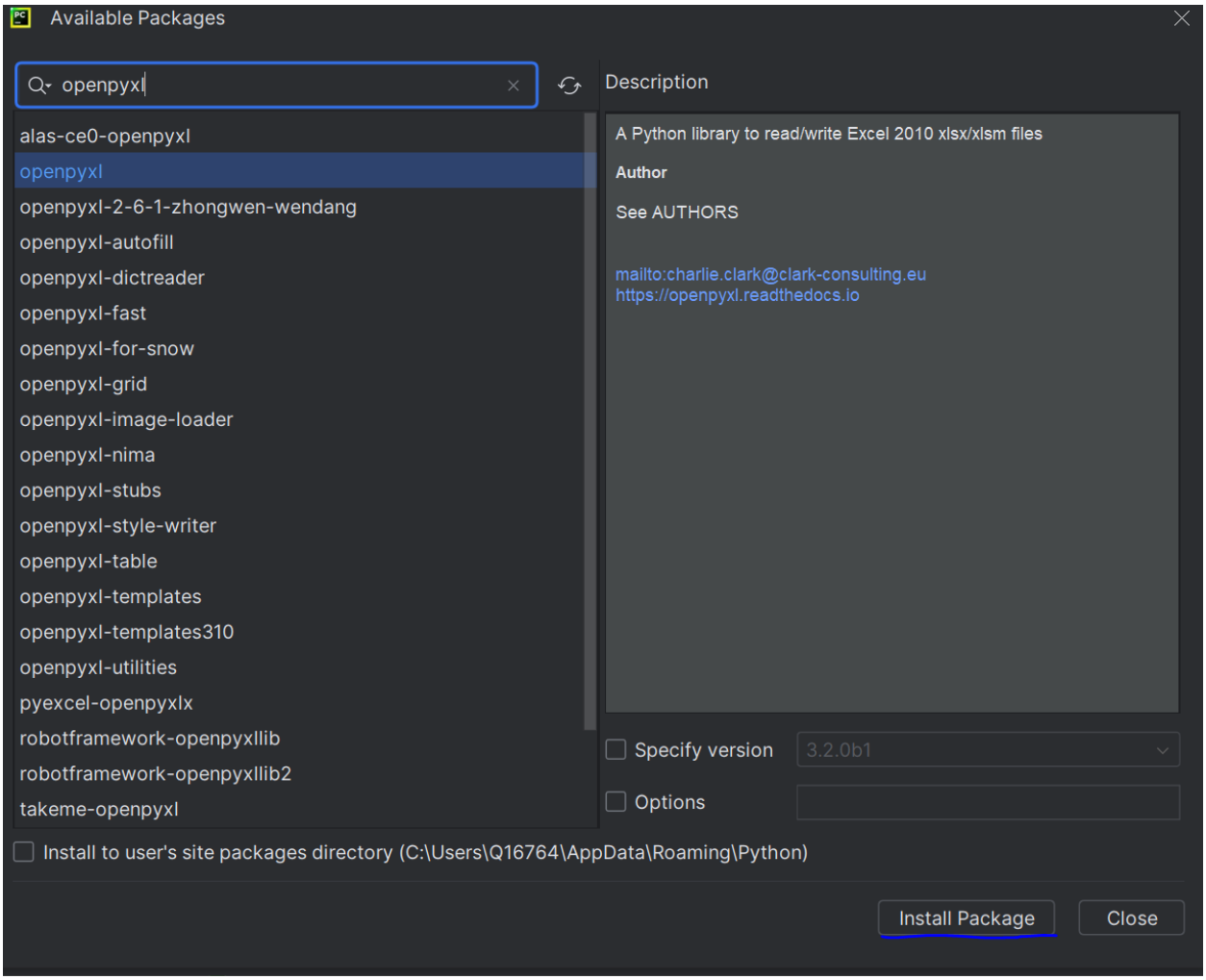


3. Click on “+” icon



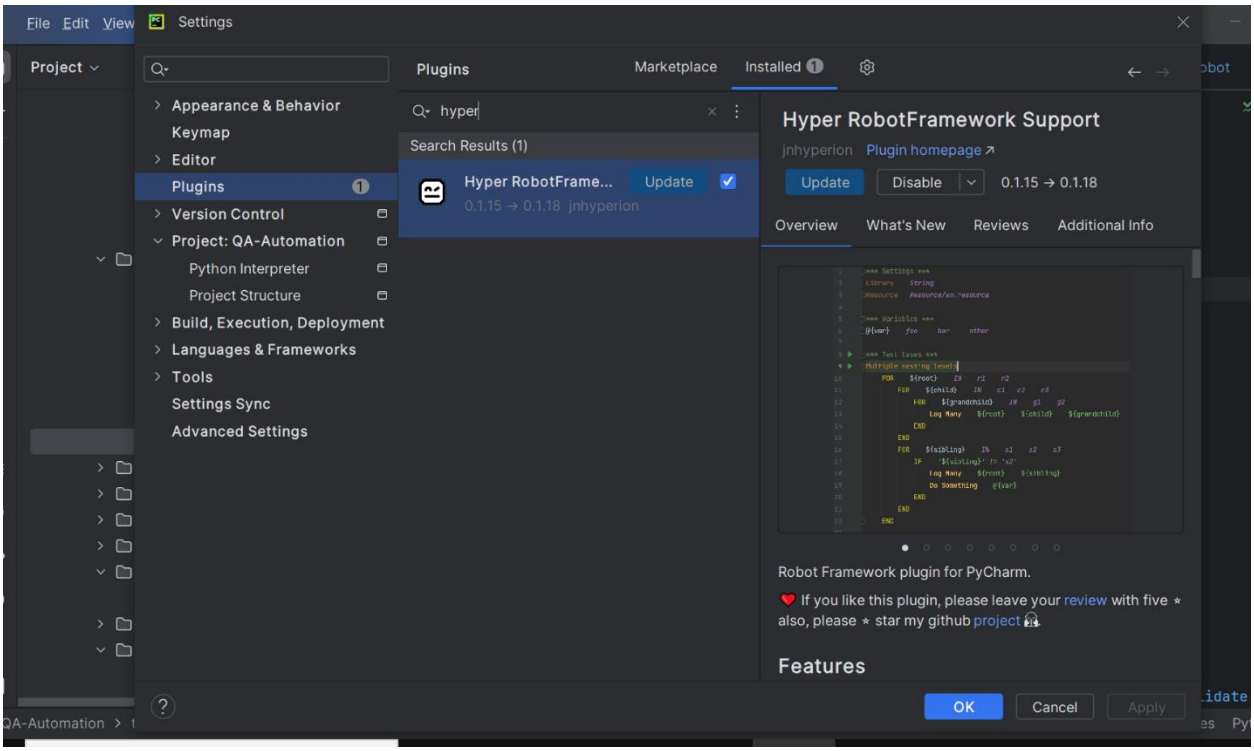
4. After clicking on “+” icon, enter the below listed libraries in available packages and click on install package.

1. Openpyxl
2. Selenium - 4.15.2
3. Robotframework-seleniumlibrary - 6.1.2
4. Robotframework - 6.1.1
5. Pip- 23.3.1



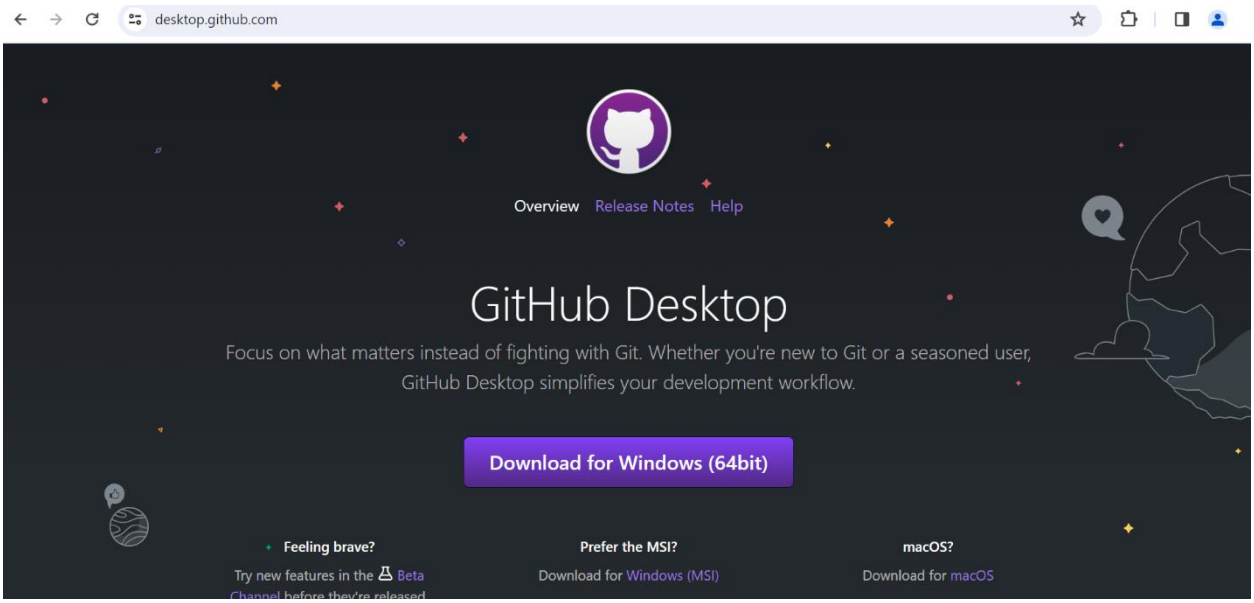
For installing Plugin:

5. Click on File-> settings->click on plugins and search with hyper robot framework in search and select the plugin and click on install.



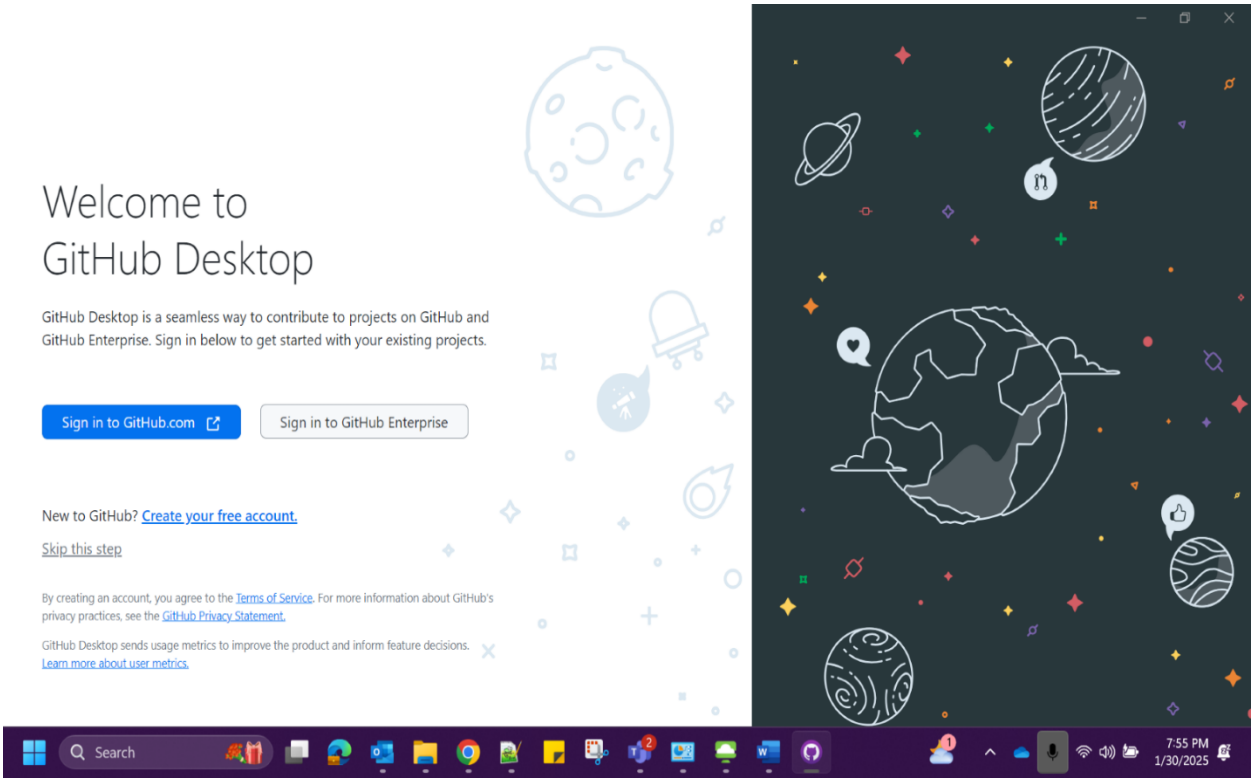
Need to install GitHub Desktop from browser

1. Click on Download for Windows

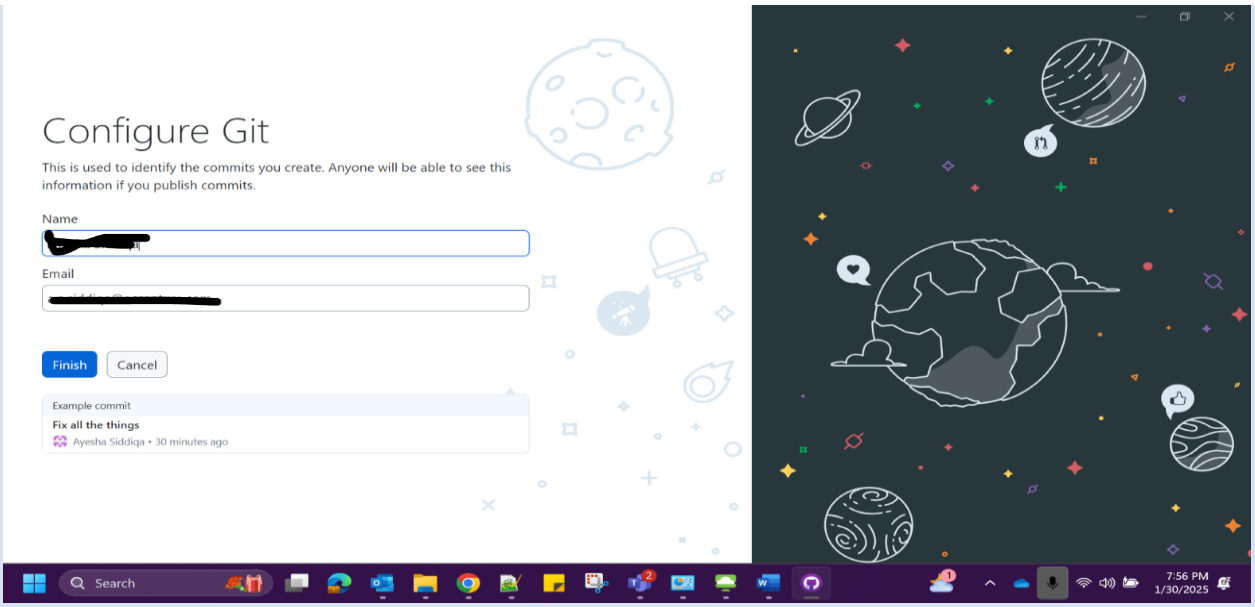


2. Open GitHub desktop after installed and below is the screen looks like:

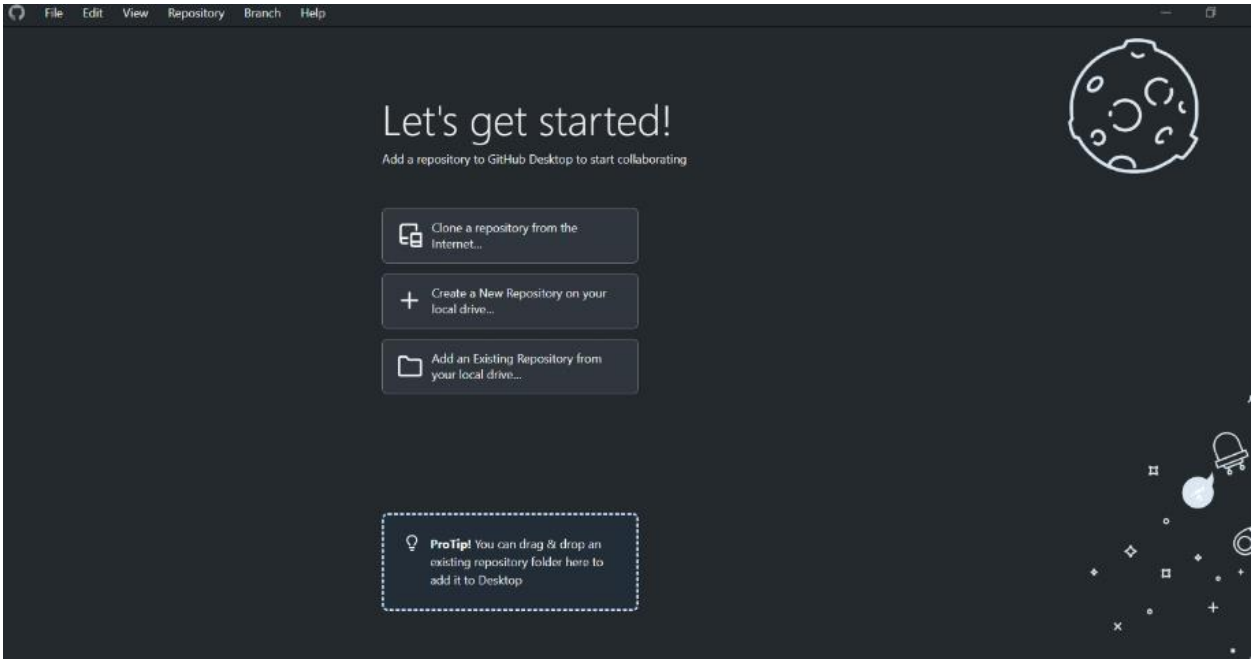
Click on “Skip this step”



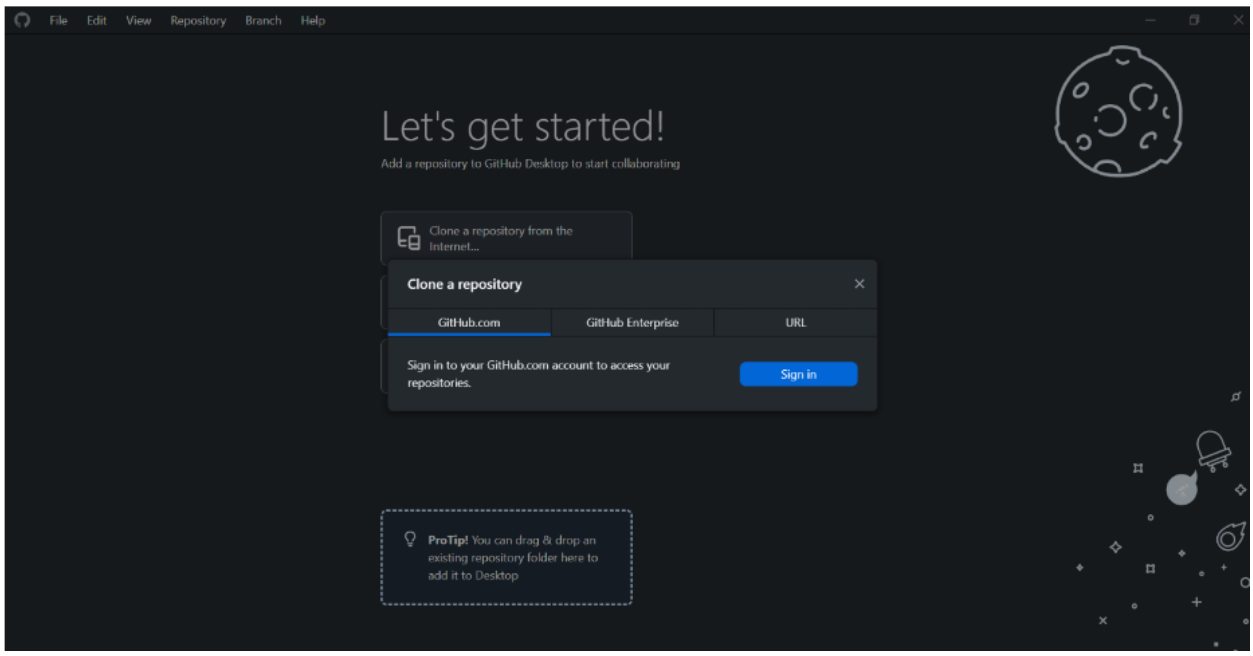
3. Give your name and KC email address and click on Finish



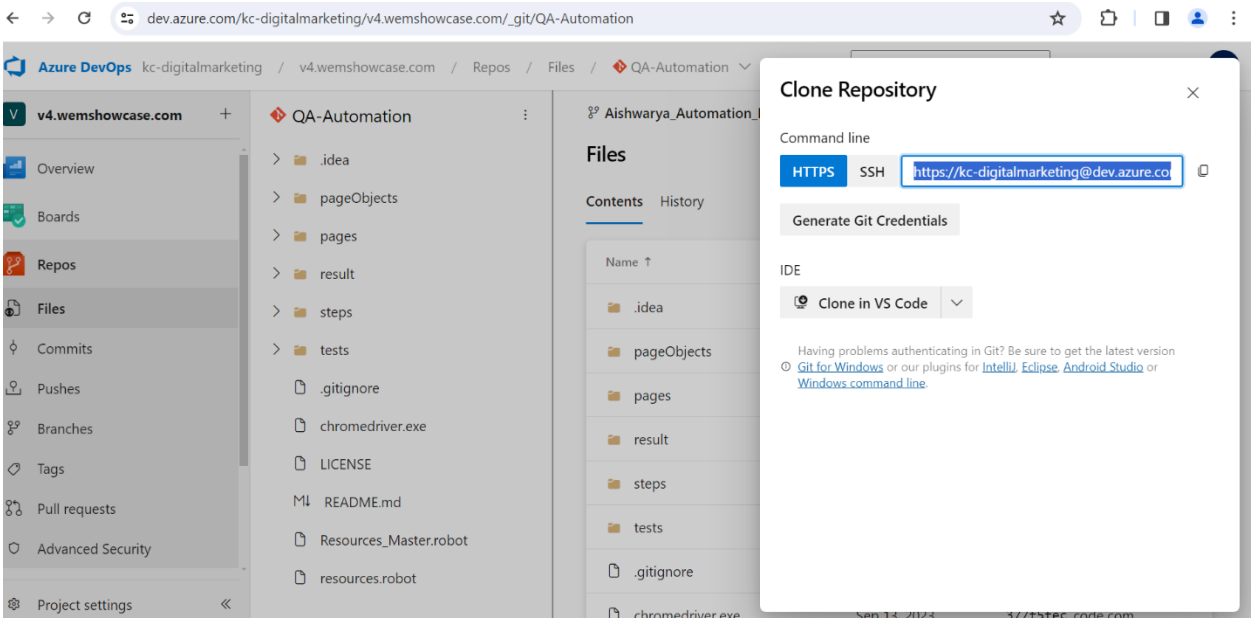
4. Click on “Clone a repository from the internet”



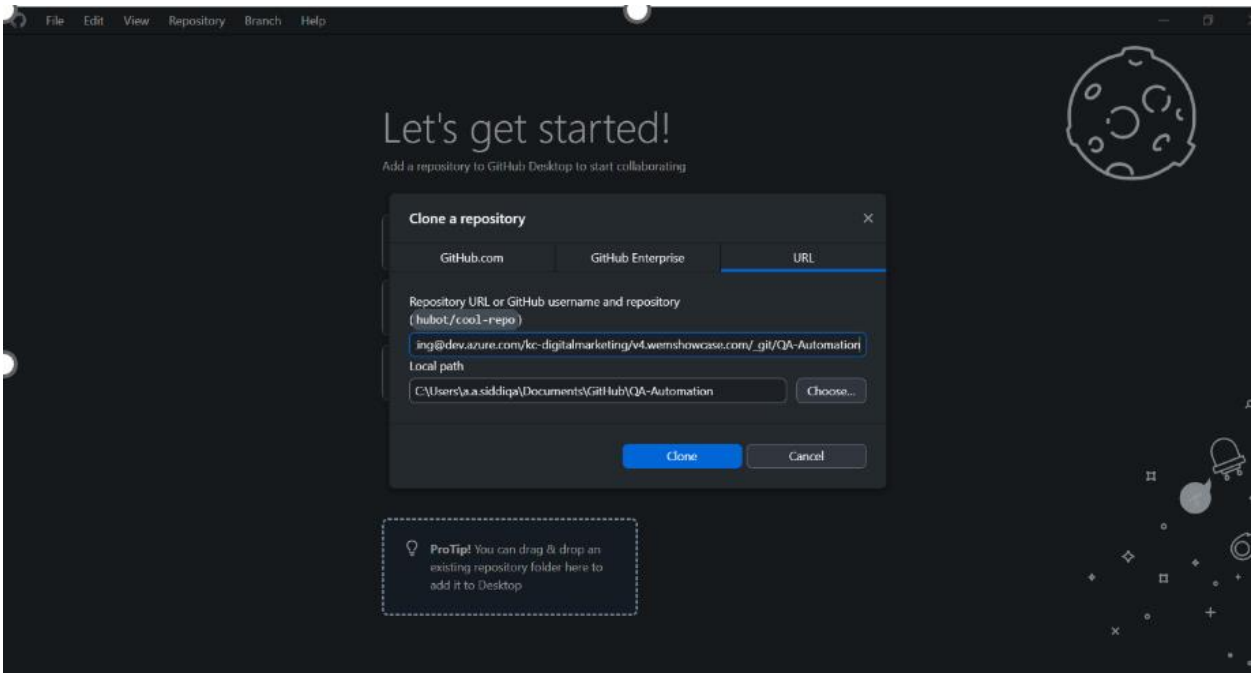
5. Click on “URL”



6. Go to QA automation repository and copy the URL from clone repository

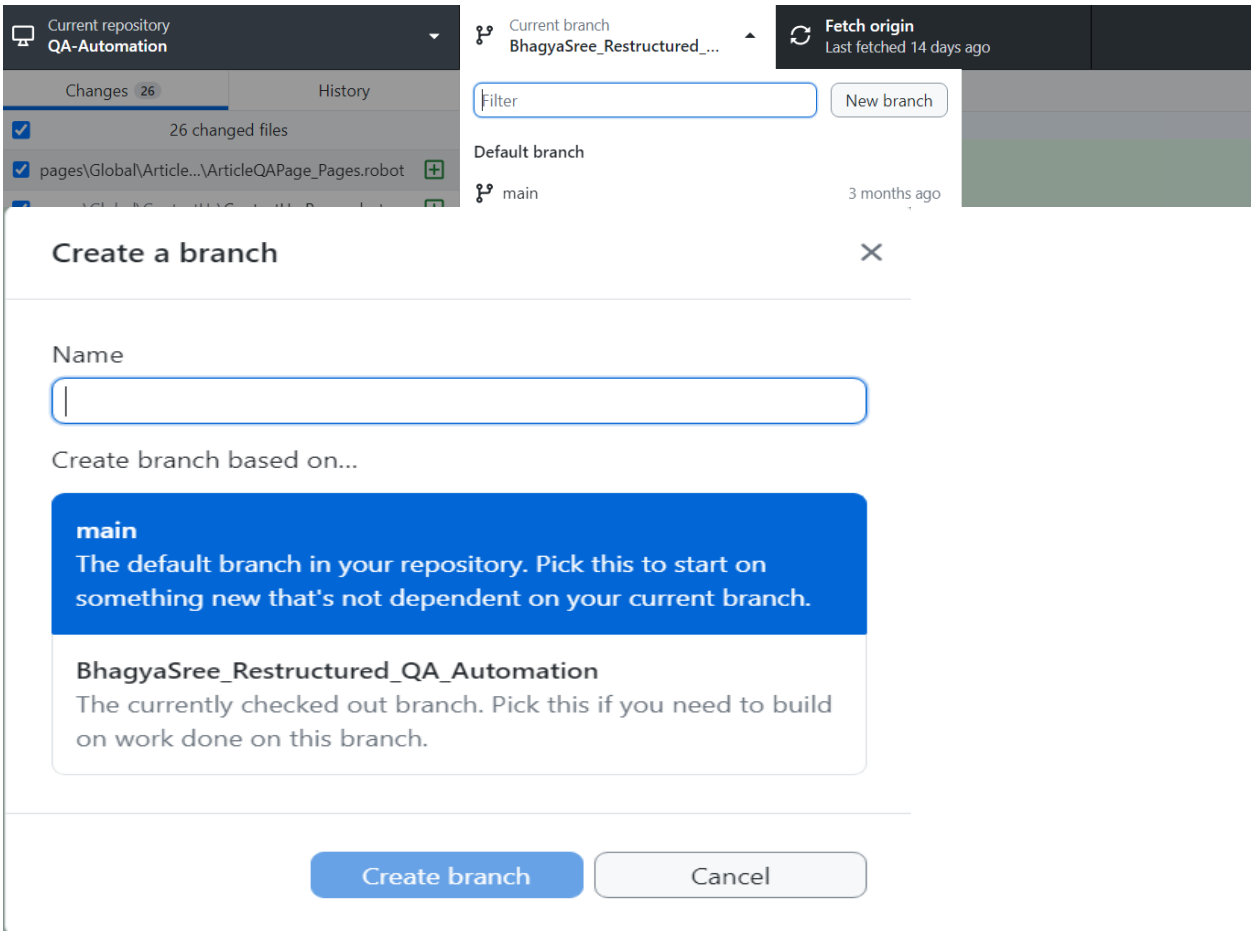


7. Go to GitHub desktop, paste the copied URL from the QA Automation repo and choose the path where automation project should be placed and click on clone.



Branch Creation

1. For creating a branch, Current branch should be PI5_AutomationSolution_interim should be selected.
2. Click on branch --> new branch (create your own branch).
3. Enter your branch name in name section



4. Now click create branch (Created New branch should be based on PI5_AutomationSolution_interim branch)
5. Then open PyCharm
6. Click file ->open-> C:\Users\QID\Documents\GitHub\QA-Automation (your project location)
7. Click on ok
8. And check the Framework got updated below your branch name

Note:

Also chrome driver exe file should be updated with same chrome version in your project location (eg: C:\Users\Q16764\Documents\Git Automation\QA-Automation) and C:\Program Files\Google\Chrome\Application.

Pre-Requisites before executing the testcase:

Before Starting execution in Local or in pipeline, we need to disable :

1.reCaptcha,

2.SFMC,

3.Brite Verify, etc..

- SFMC integration so that email shouldn't get triggered
- Brite Verify integration to avoid calls to brite verify API
- reCAPTCHA so that Load Test script can submit the form

Smoke Suite Execution:

Note: -- include and -- exclude is a keyword, Smoke and Wem is a Tag name

To run parallel execution in local:

1.If you want to run only Smoke Suite Testcase, use below command:

pabot --testlevelsplit --variable SiteIdentifier:Wem_V4_NA_US_EN --include Smoke .\tests\Global -> This Command will execute entire testcase which has smoke tag within global folder

2.If you want to run entire Regression testcase, use below command:

pabot --testlevelsplit --variable SiteIdentifier:Wem_V4_NA_US_EN .\tests\Global -> This Command will execute entire testcase within global folder

3. If you want to exclude any testcase for particular region which is not applicable:

pabot --testlevelsplit --variable SiteIdentifier:Wem_V4_NA_US_EN --include Smoke --exclude Wem .\tests\Global –> This command will execute the testcase which has only the smoke tag and exclude the wem tag within the global folder

To run single testcase / Component level execution in local:

1.If you want to run single testcase, use below command:

robot --variable SiteIdentifier:Wem_V4_NA_US_EN .\tests\Global\Component name\Component Name_TC001.robot – This command will execute single testcase for that particular component.

robot --variable SiteIdentifier:Wem_V4_NA_US_EN .\tests\Global\Component name – This command will execute entire testcase in that component.

Setting Up Pipeline

One execution is done in local, Create the pipeline /Variable Group specific to Sector
For example: QA-Adultcare , QA-Femcare

Example Link: https://dev.azure.com/kc-digitalmarketing/v4.wemshowcase.com/_library?itemType=VariableGroups&view=VariableGroupView&variableGroupId=10678&path=QA-AdultCare

Point Of Contact:

Pipeline Related Queries: manikanta.v@kcc.com
Server Team/Devops team: DL015142@kcc.com / praveen.kumar3@kcc.com

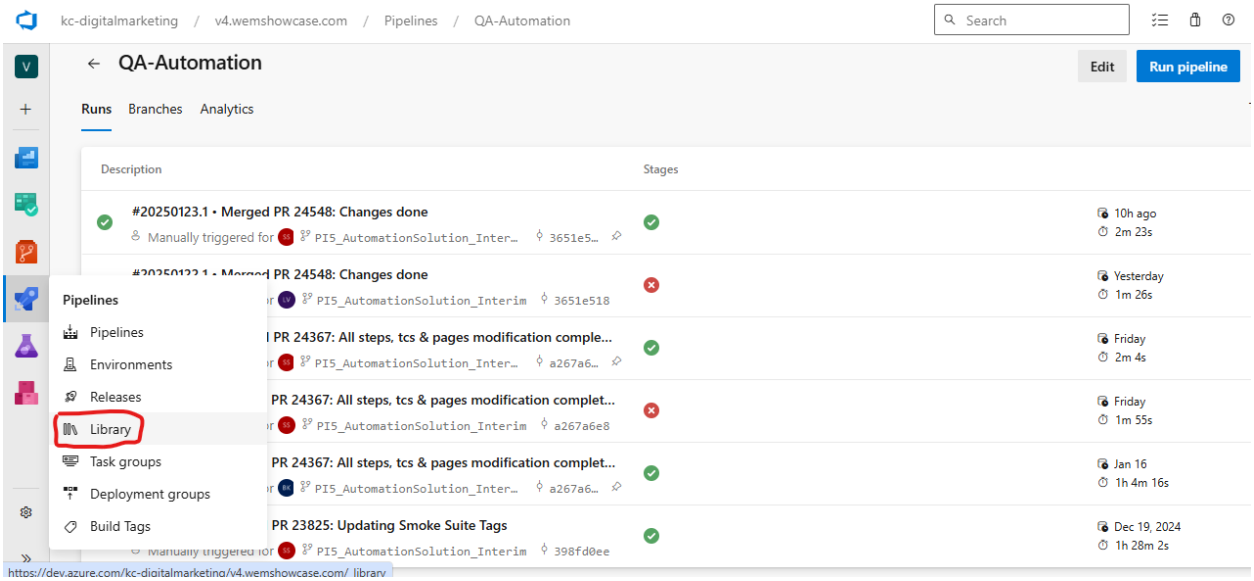
GWS /Cloud Fare Team: lokesh.vm2@kcc.com

Network security Team: Computer.Security.Network@kcc.com / leandro.bertucci@kcc.com / ahmadsufi.ahmadkhairuddin@kcc.com

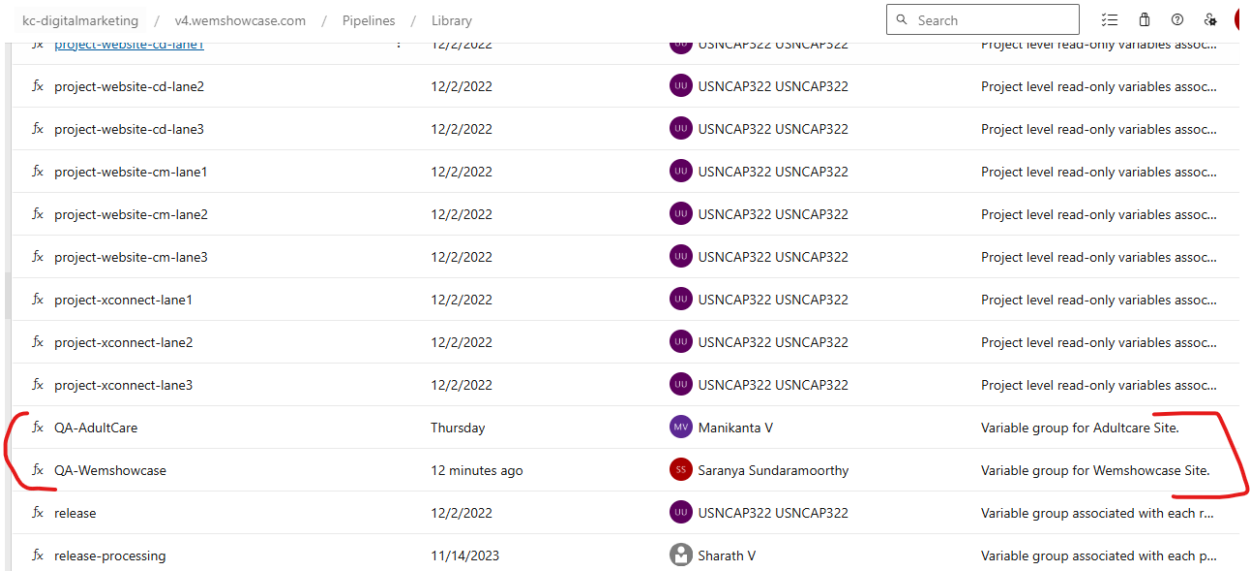
Executing the Testcases in Pipeline

1. Go to QA-Automation Build

2. In Left pane mouseover Pipeline and click Library



3. Select the Respective Sector Build for execution. (For Example: To execute for Wem Url Select the QA-Wemshowcase Variable Group.)



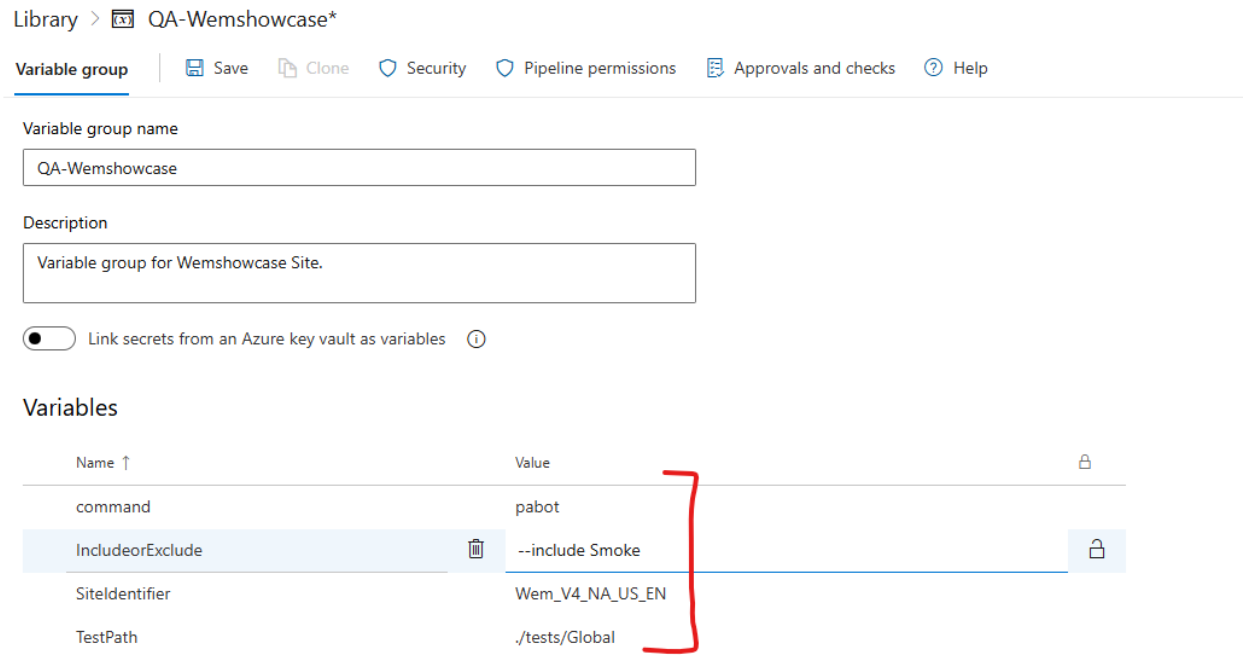
4. After Selecting the Variable Group, you need to update the required parameters below:

I: Command: If you want to execute testcase one by one update “robot”

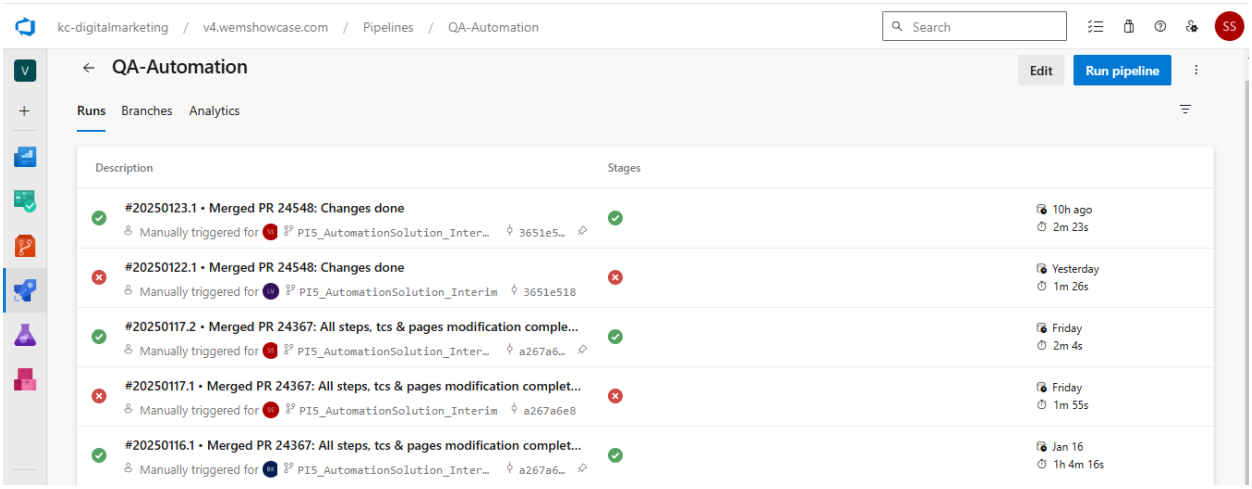
II: IncudeorExculde: This is for Executing the Smoke suite or entire regression suite. If you want to execute only smoke suite. Update like –include Smoke. If you want to execute entire suite, leave that row as blank.

III: SiteIdentifier: Update the siteidentifier. For ex: WEM_V4_NA_US_EN

IV: TestPath: If you want to run entire suite under Global Folder, Add like, ./tests/Global. If you want to run any specific component like home page. ./test/Global/Homepage



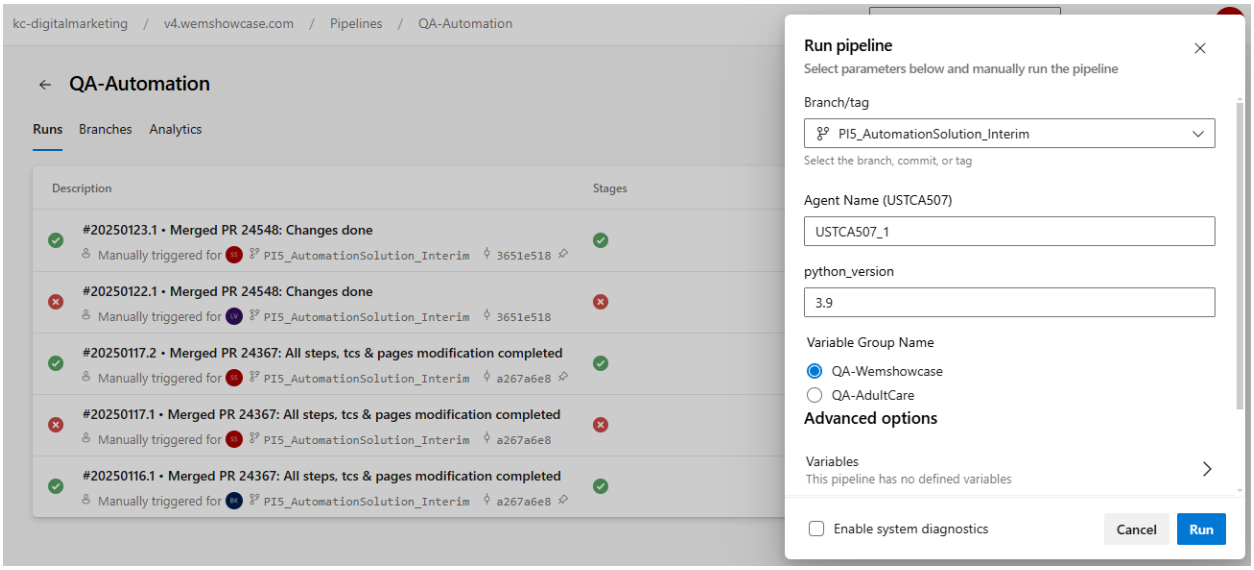
5. Click on Save. Then your changes will be saved. Once everything parameter updates are done. Go back to QA build execution. (i.e. QA-Automation)



6. Click on Run Pipeline

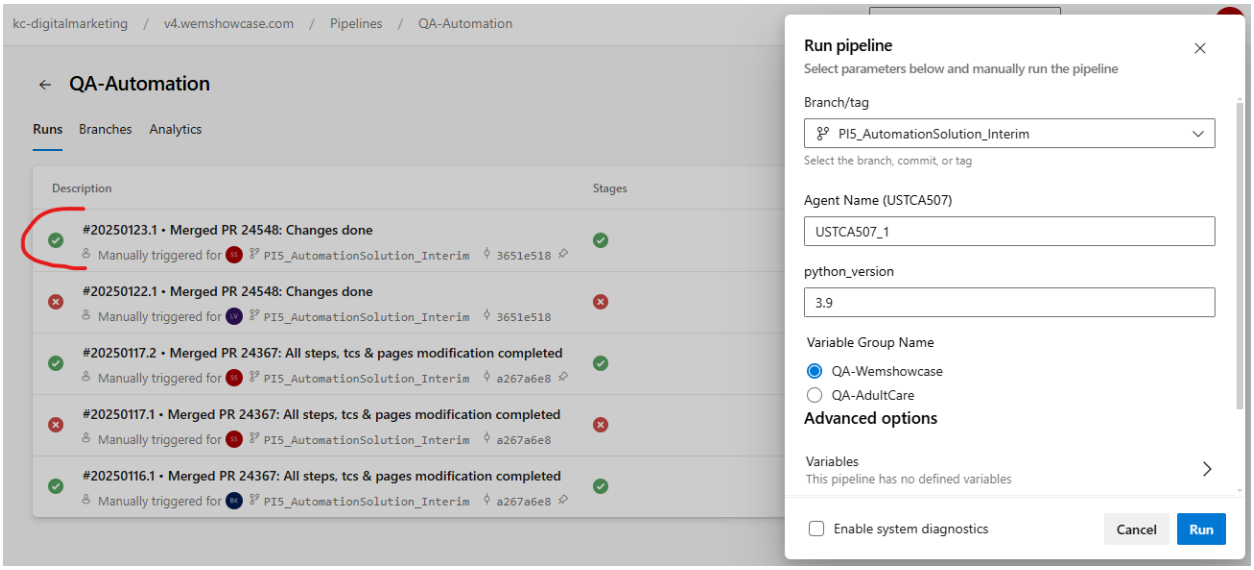
7. Give all the parameters as mentioned in the screenshot below:
   Branch Name: PI5_AutomationSolution_Interim
   Agent Name: USTCA507_1
   Python_Version – 3.9

Variable Group – In which sector, you need to run the execution. Need to select that variable group in variable group section.

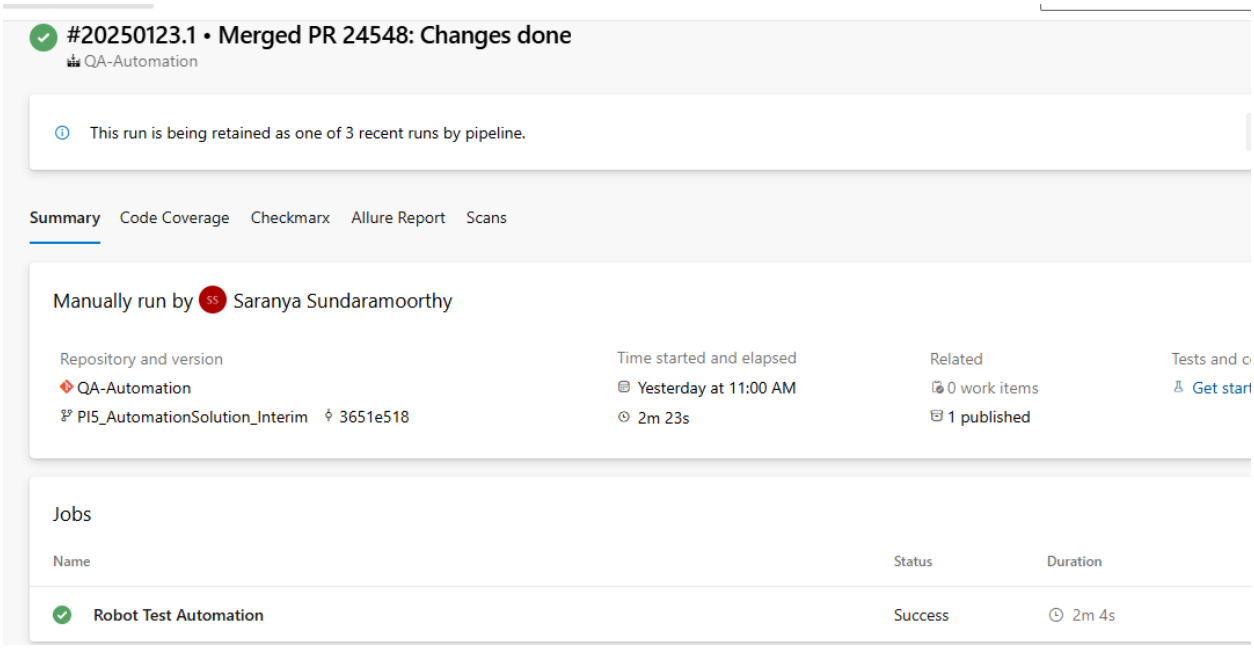


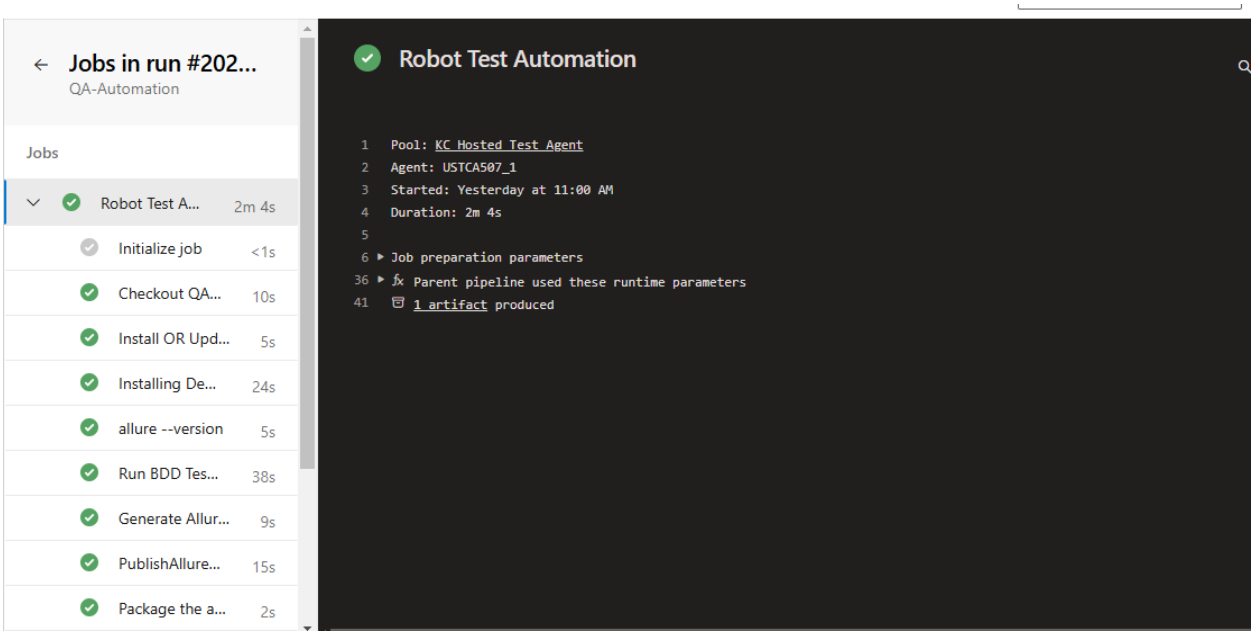
8. Click on Run

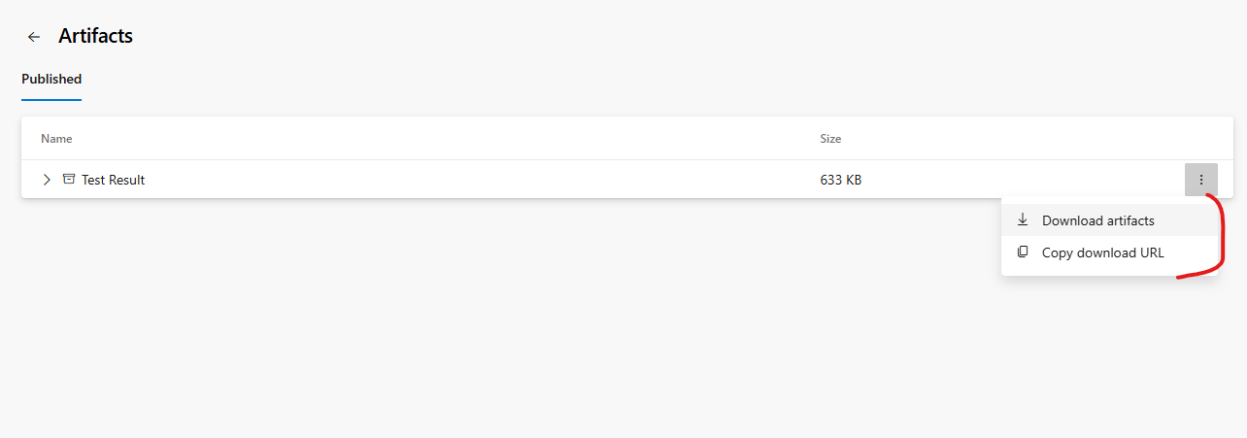
9. Once Execution Started, Click on the very first build.



10. Then Click on Robot Automation Job, to check the step-by-step execution.





11.Once Execution is done. You can click on 1 Published artifact in the above screenshot to get the Execution Report.

12. From three dots in right side, you can download the artifacts.