

PR Status API Tool

















Introduction

What is a PR

- Pull request(PR) contains code level changes implemented in the local environment of the user, for fixing bugs across many versions of CRM application
- These changes need to be pushed to Server for the fix to be effective in the application

What are the current challenges

- If the Build of the PR doesn't succeed then the changes do not get pushed. Hence they need to be monitored regularly and steps need to be taken if they fail or expire.
- This process manually takes a long time and decreases the efficiency of the workforce. Hence there arises a need for automated tool to perform this task



Overview

How the tool works

- The Pull Request Status tool is created to automate the process of getting the PR status(Abandoned/Completed/Active) from the pull requests and update the excel sheets accordingly
- This tool takes input in two ways. One is in the form of excel sheets with predefined schema, containing PR URLs. And other is TFS Query Link.
- If user enters query link, tool creates a new excel sheet with Buglds and corresponding PR Links and PR status of that particular query link. And this newly created excel file will be saved file path provided by the user.
- If user enters excel sheet with Bug IDs and PR Links on Completion the tool updates the input file by appending the build status against each PR.



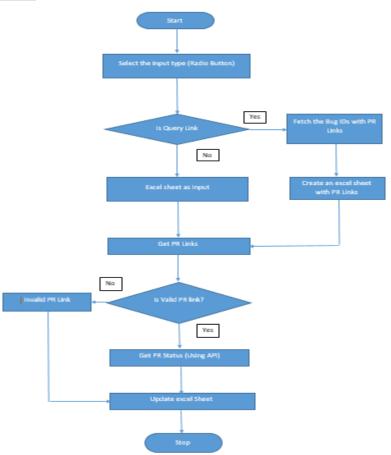
Business Benefits

Advantages of using the tool along with effort and time savings

- Average time taken for Manual checking of status in TFS
- ❖ PR Status = 2 minutes
- If a bulk port is having 100 PRs then the average effort taken by the FTE = 100 * 2.5 minutes = 4.2 person hours
- PR Status API tool will be able to do the same in less than one minute for a PR
- This tool gives the status of the build against each PR thus by simplifies the status reporting.



Workflow diagram

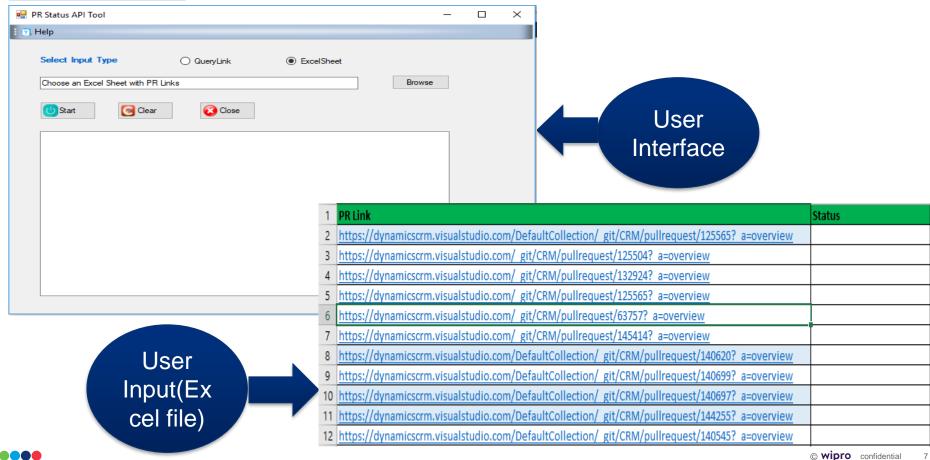


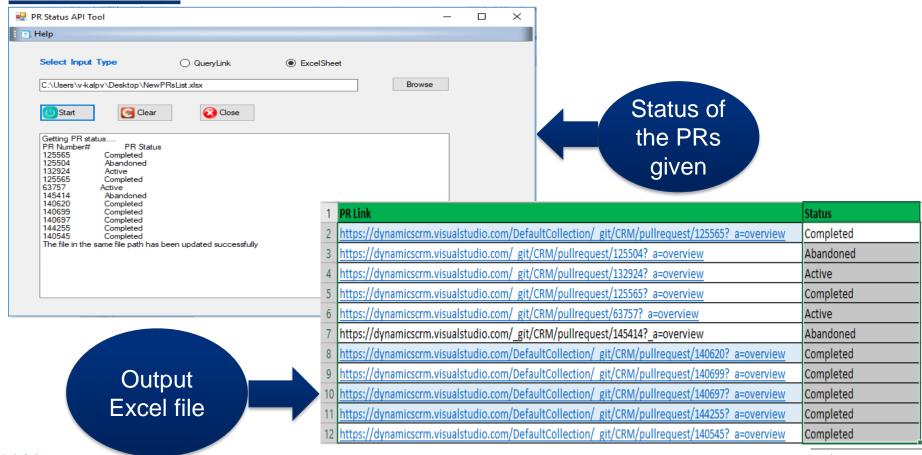
Expected PR status:

- Abandoned
- Active
- Completed



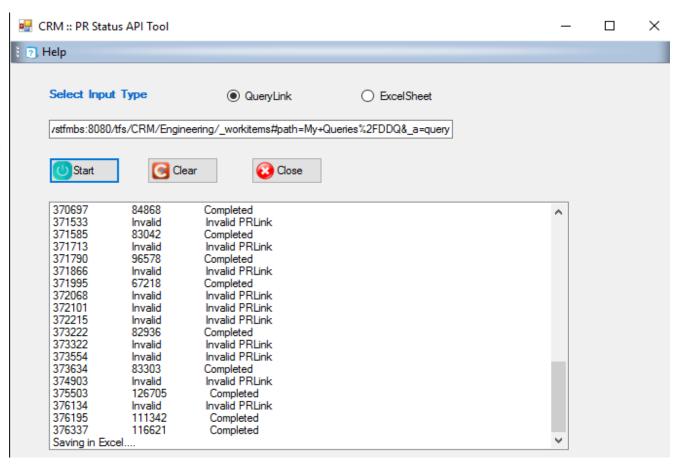
Tool Demo



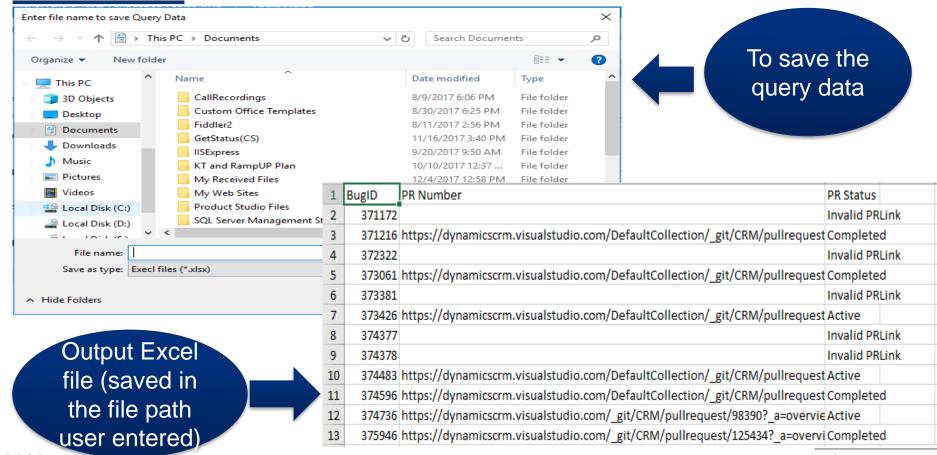


If User Input is Query Link

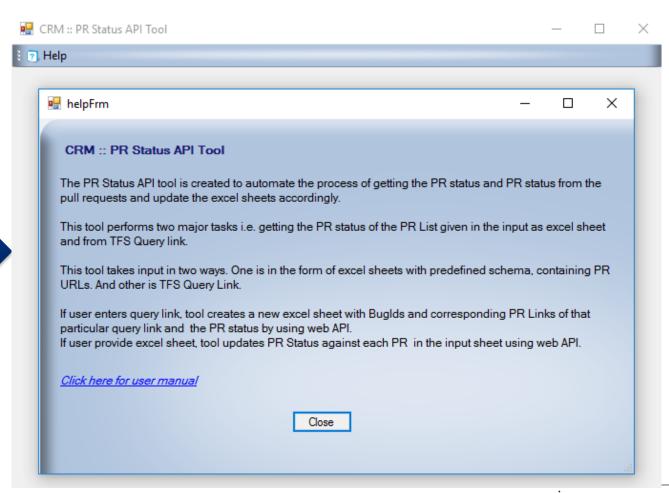








User can
understand the
tool functionality
with "Help" option
in the tool



Limitations

Constraints and Limitations of the current version of the tool

- The Input has to be in a predefined format.(Excel sheet should contain BugID, PRLink and Status columns)
- It only gives PR status but not Build status.



Next Steps

Plans for the consecutive versions

• The build status can also be given as output.



Summary

About the tool in a nutshell

- Helps the FTE in getting the status of the PR to track builds in an effective manner.
- Some predefined libraries and REST APIs to make the process more efficient and accurate.
- It reduces the effort in checking the status of the PR



