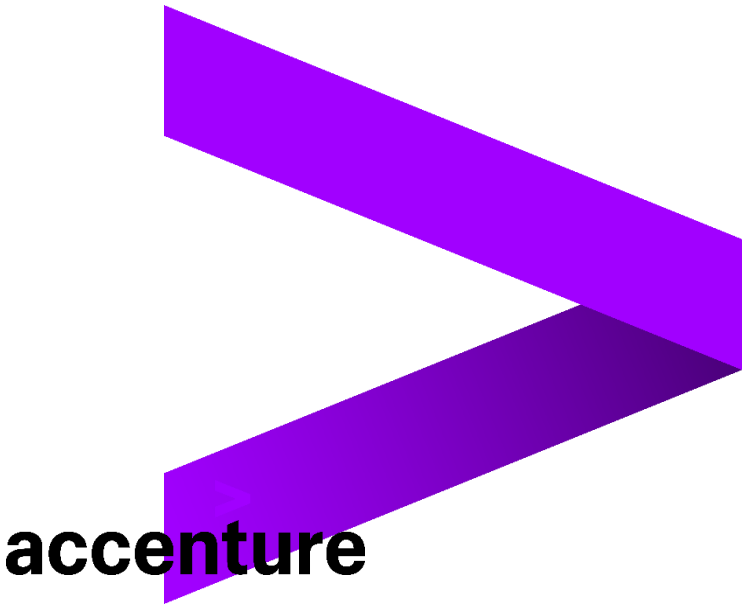
accenture

Learning and Knowledge Management

Working with Github and Git – Activity 1



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Version	Revision Date	Description	Author	Reviewed by	Approved by
V1.0	21-Apr-23	Initial Version	Rakhi Parashar	Rathna Perumalsamy	CPCL, Sreenivasa Rao

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Exercise: Working with Github and Git

Prerequisite:

1. Working knowledge of Git and SCM

Walkthrough:

1. Install Git
2. Create project in Github server
3. Import Project and observe webhooks is created.
4. Running Git commands using gitbash.

Steps:

1. Install Git

1	Following are the steps to install Git: a. Click on Git Download for Windows from the below URL b. https://git-scm.com/downloads c. Once download is complete, go to downloads folder and go for right click Run as administrator option git.exe software. d. Select Accenture Business permissions. e. Keep remaining options as default and click Install button. f. If Git installation is completed successfully, then follow these steps. g. Navigate and select Git Bash

2. Import project on Github server

1	Signin to the Github server a. You are required to signup to Github at **https://github.com/** b. While signup, please provide your mail id as an email address. c. (Confirmation link will be sent). d. Once the account is created, login to the account.
2	Click on new project

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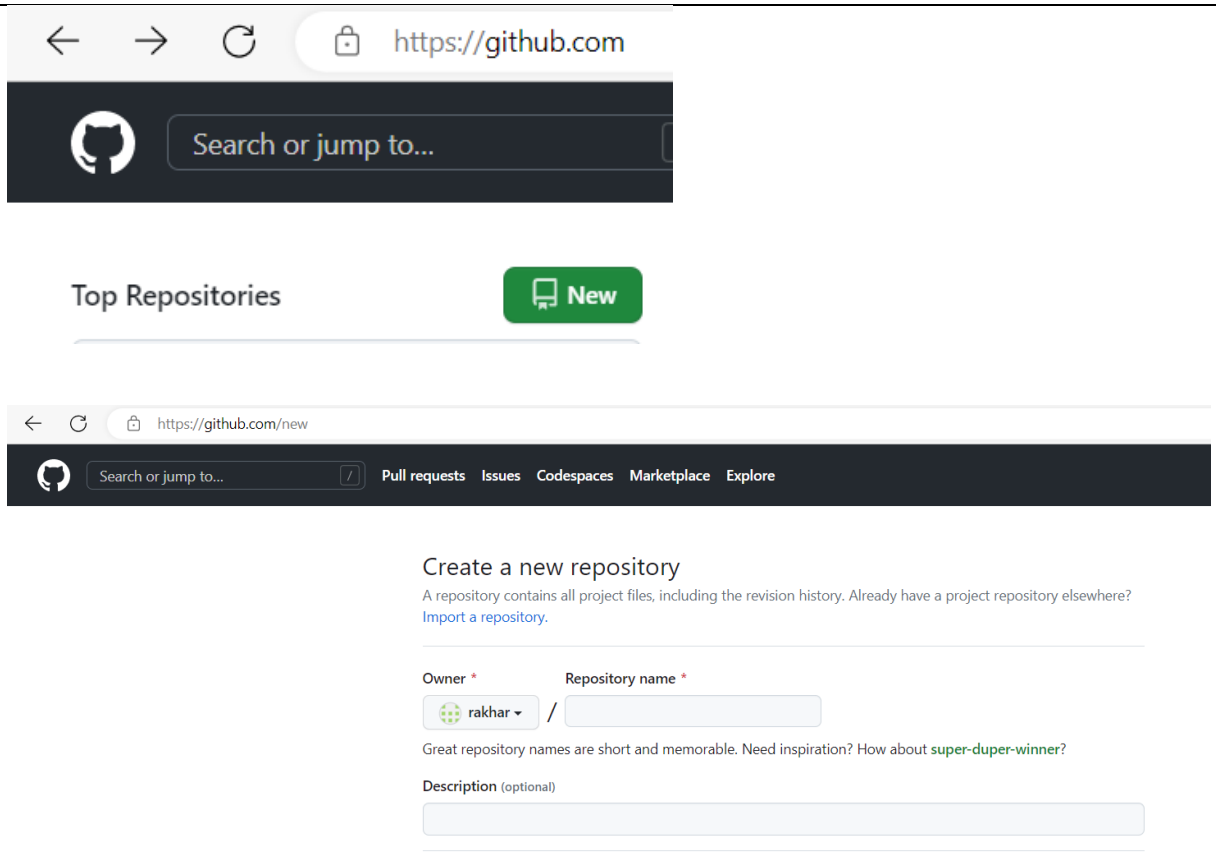
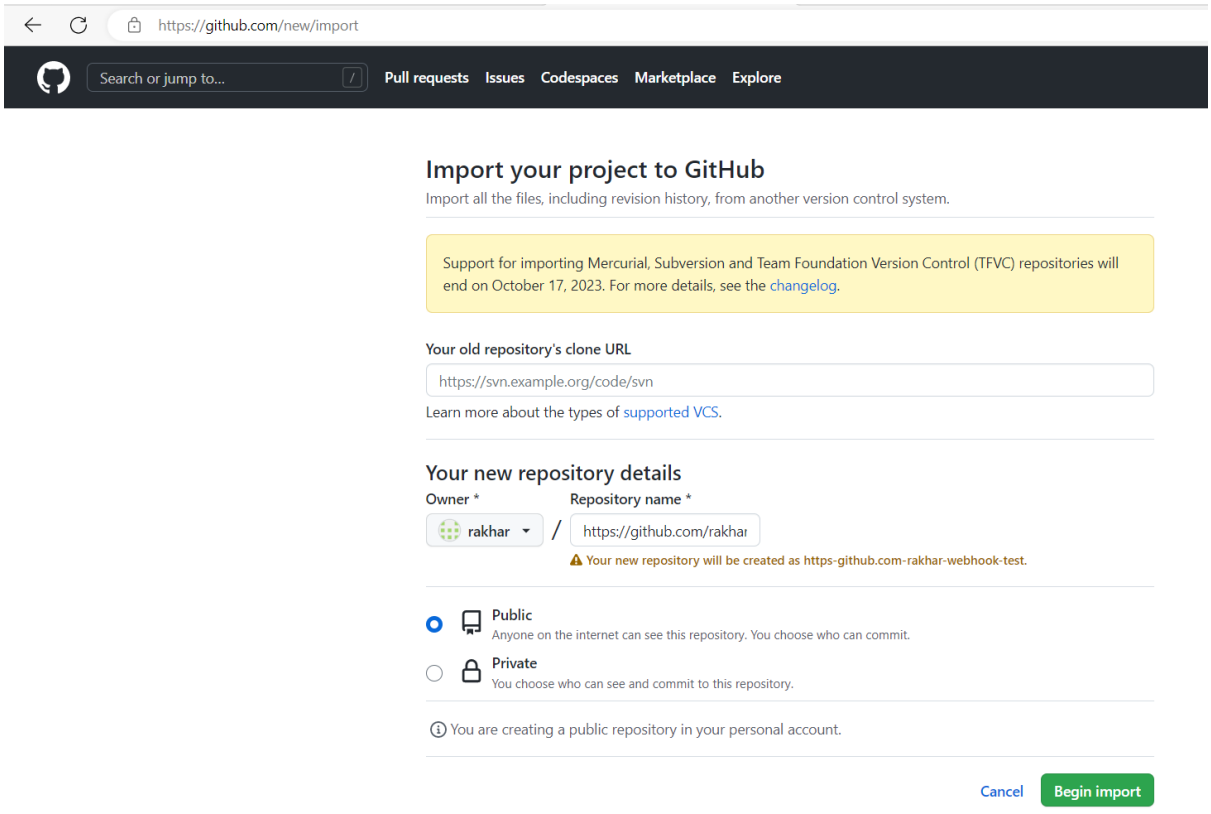


Provide the below URL and click on Begin Import.

`https://github.com/rakhar/webhook-test.git`



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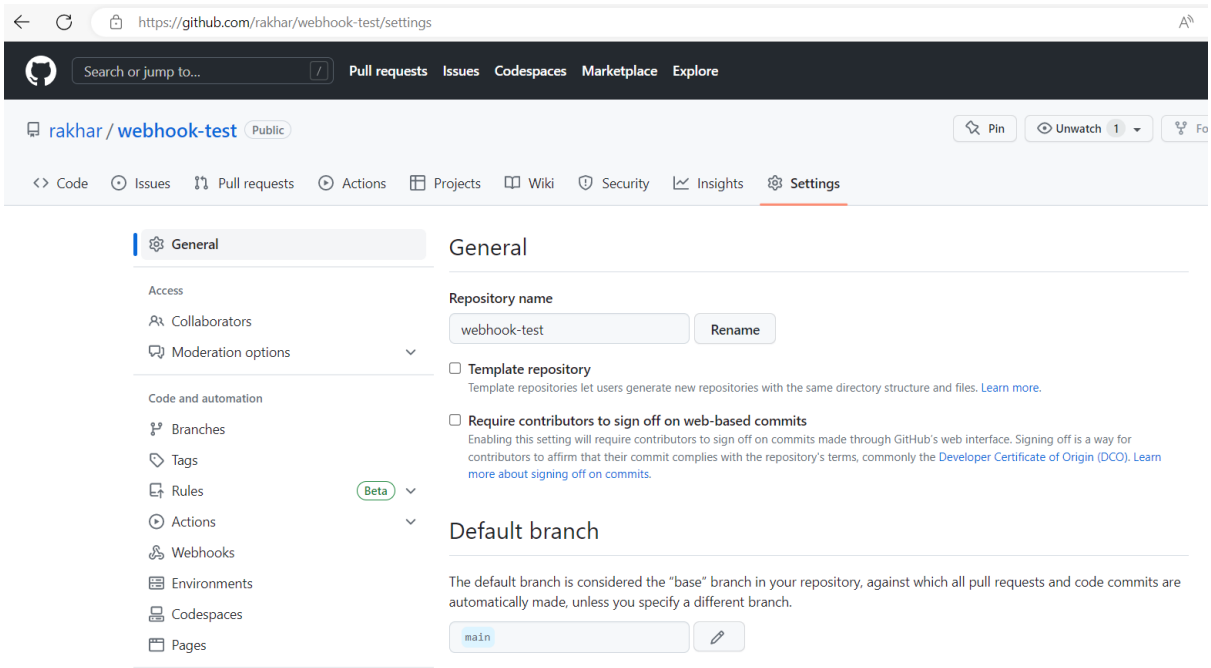
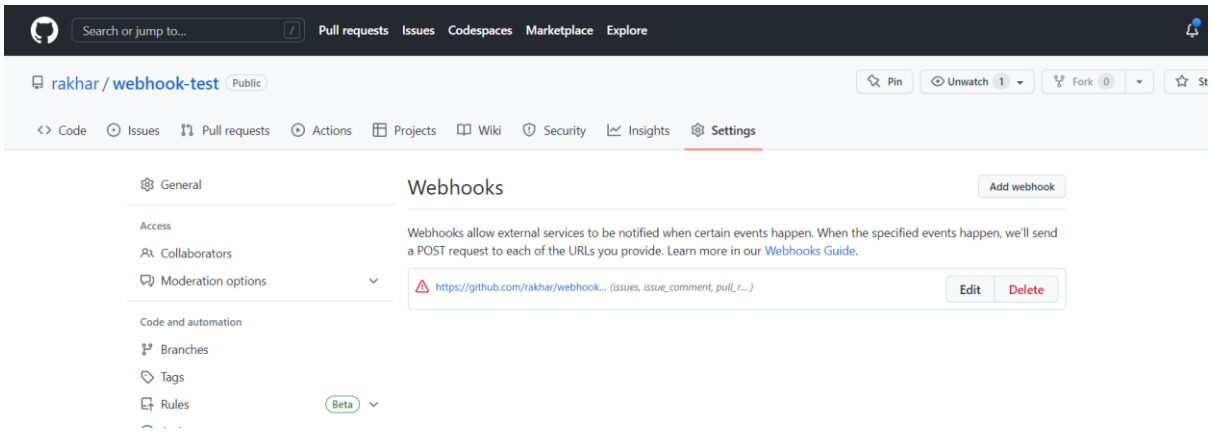
3	Goto settings:  Click on Webhooks and then click on Add webhook: 

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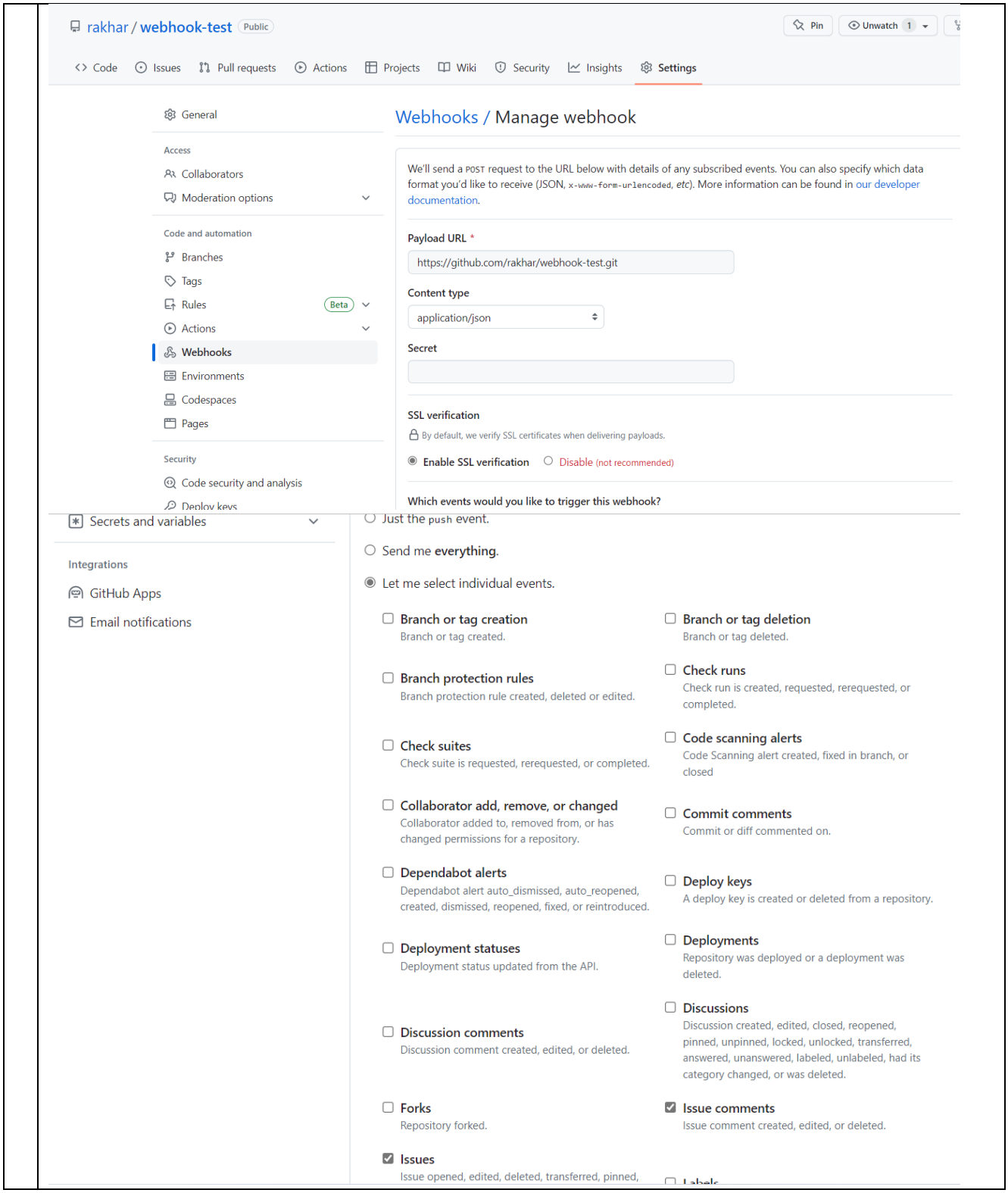

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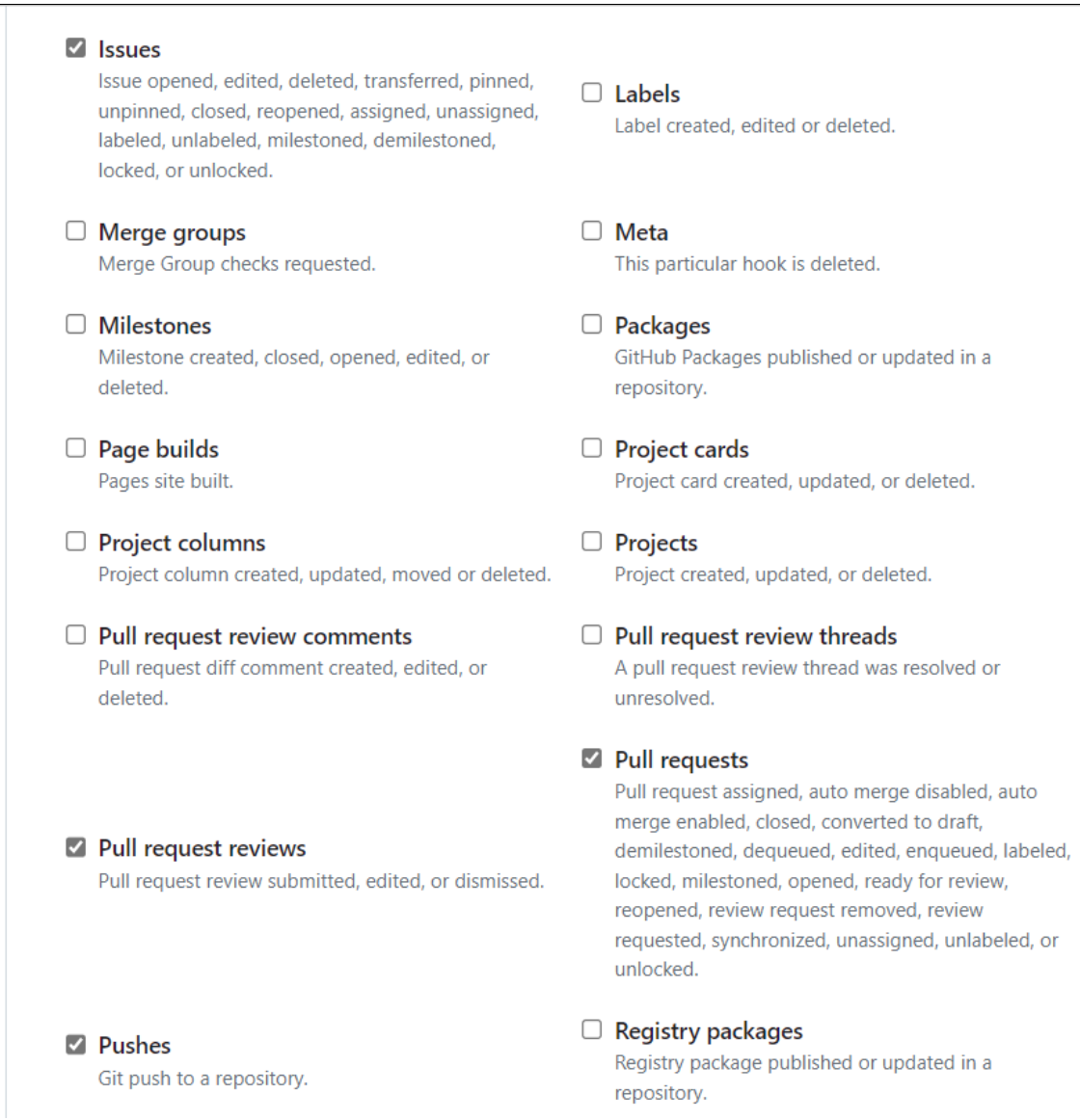

Make sure above check boxes are selected and then add webhook.

4	Also in Settings, under Actions make sure you select as below:

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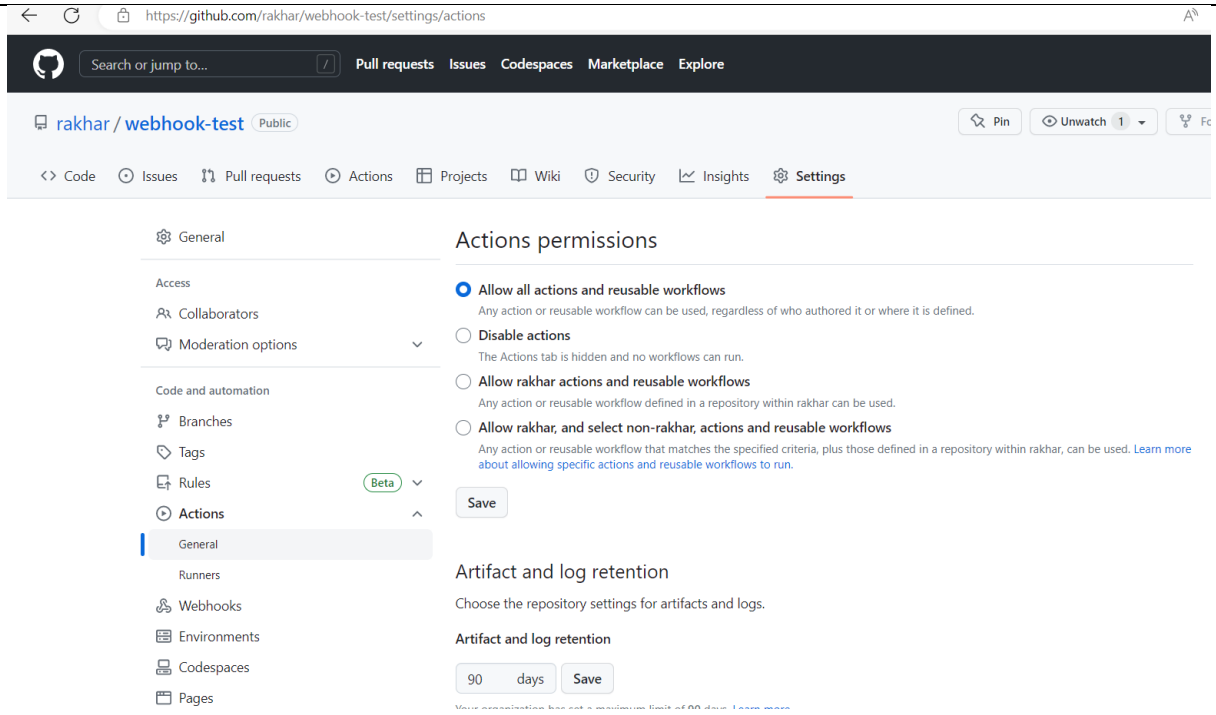
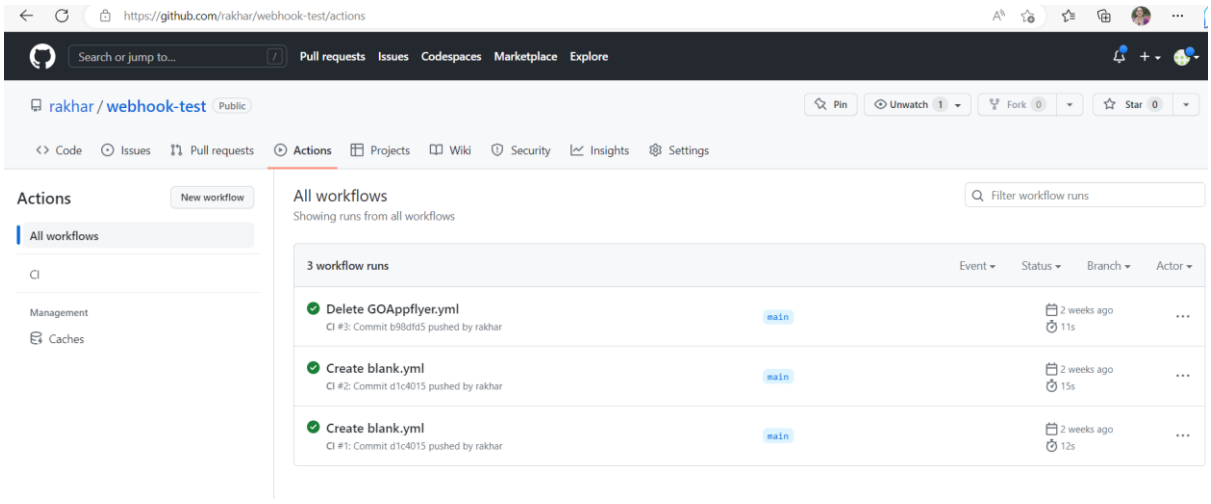


Now make any change in Readme or any file and commit. Observe the Github Pipeline triggered automatically.



3. Running Git Commands based:

1	//Updating Config list git config --list git config --global user.name “[name]” git config --global user.email “[email address]”
2	// View total no. of branches git branch

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	// to create a develop branch git branch develop
3	//Checkout branch or switching to a branch or //moving to any new branch. git checkout develop

4	//Adding new files:
	touch filename
	
	//How to make changes using vi
	vi filename
	press i
	type ur lines of code
	press escape key
	press :wq
	enter key

5.	//To see the status of the tracked files in staging area git status

6.	//git add command will add any modifications of source code or any new additions to staging area.
	git add filename
	git add .
	//To untrack the modifications done and added to staging you can use restore or reset. i.e to revert back.
	git restore --staged testfile.txt
	
	git add .
	git commit -m “comments”
	git log
	git reset --hard commitID

7.	//To see logs for the commits done so far. git log git show commitID
8.	//Will show modifications done in source code Git diff git diff --staged

9.	//Will pull the modifications done by anyone in same project to your local
	Git pull
	//Merging changes and pushing to remote
	git merge branchname
	git push

10.	//Stash command helps you to save or park your changes for temporary purpose and continue making further changes, whenever we are ready we can bring back the saved/parked changes and do the commit and push to remote repository. It follows LIFO. git stash save git stash list git stash drop git stash pop git stash list git stash pop stash@{1}

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	git stash pop stash@{0}
11.	//Use tags for your multiple releases git tag -a <tag-name> -m "tagging message" (creates an annotated tag) git push origin tagname git tag git show tagname
12.	git revert

	//rm - Remove file from git project repository, clean – Remove untracked files or directory from your git
	//repository
	git rm filename
	git clean -n
	git clean -fd

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