



BHARATIYA VIDYA BHAVAN'S
SARDAR PATEL INSTITUTE OF TECHNOLOGY
Munshi Nagar, Andheri (W), Mumbai - 400058
DEPARTMENT OF MASTER OF COMPUTER APPLICATION

Academic Year – 2022-23

Class: F.Y.MCA Semester: I Subject: **Software Engineering Lab**

Subject In charge: Nikhita Mangaonkar Course Code: MC503

Name: Aditya Salunke **UID:** 2022510053

EXPERIMENT NO: 10

EXPERIMENT TITLE: Use of CI tools

Objective:

- 1.To understand the use of CI tools
2. To create different versions of software
3. To maintain it through tools

DATE TURN 1:

PRACTICAL EVALUATION:

PI1: On Time	PI2:Performance	PI3: Documentation	PI5 : Lab Ethics	Marks Per Experiment
0.5	3	1	0.5	5



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Install Git

Set global username and email address

```
mca_dept@mca MINGW64 ~
$ git --version
git version 2.39.1.windows.1

mca_dept@mca MINGW64 ~
$ git config --list
http.sslcainfo=C:/Program Files/Git/mingw64/ssl/certs/ca-bundle.crt
http.sslbackend=openssl
diff.astextplain.textconv=astextplain
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
credential.helper=manager
core.autocrlf=true
core.fscache=true
core.symlinks=false
pull.rebase=false
credential.https://dev.azure.com.usehttppath=true
init.defaultbranch=master
user.name=user name
user.email=user@gmail.com

mca_dept@mca MINGW64 ~
$ git config --global user.name "Aditya Salunke"

mca_dept@mca MINGW64 ~
$ git config --global user.email "adisal15@gmail.com"

mca_dept@mca MINGW64 ~
$ git config --list
http.sslcainfo=C:/Program Files/Git/mingw64/ssl/certs/ca-bundle.crt
http.sslbackend=openssl
diff.astextplain.textconv=astextplain
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
credential.helper=manager
core.autocrlf=true
core.fscache=true
core.symlinks=false
pull.rebase=false
credential.https://dev.azure.com.usehttppath=true
init.defaultbranch=master
user.name=Aditya Salunke
user.email=adisal15@gmail.com
```



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Create a new project in azure devops

Create a project to get started

Project name *

Visibility

Public ☒ Anyone on the internet can view the project. Certain features like TFVC are not supported.

Private ☐ Only people you give access to will be able to view this project.

Public projects are disabled for your organization. You can turn on public visibility with [organization policies](#).

+ Create project

Invite member that you want to add in your project

Invite members to Project front end

Search and add users to your Project front end

Users

chaitanyashetty47@gmail.com X

arshitasallagani1451@gmail.com X +

Add to team(s)

Project front end Team

chaitanyashetty47@gmail.com, arshitasallagani1451@gmail.com has not been assigned an access level, we will attempt to assign Stakeholder. [Learn more](#)

Activate Windows
Go to PC settings to activate Windows.

Cancel Add



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Set the access level in your project

The screenshot shows the Azure DevOps 'Users' page for organization SPIT13-02-23. A modal dialog titled 'Change access level' is open, showing the user 'arshitasallagani1451@gmail.com' with an 'Access level' dropdown set to 'Basic' and 'Last Accessed' as 'Never'. The background shows a list of users with columns for Name, Access Level, and Last Accessed.

Name	Access Level	Last Accessed
aditya Salunke adisa15@gmail.com	Basic	
arshitasallagani1451@gmail.com arshitasallagani1451@gmail.com	Stakeholder	
chaitanyashetty47@gmail.com chaitanyashetty47@gmail.com	Basic	

The screenshot shows the same Azure DevOps 'Users' page after the access level change. A success message at the bottom states: 'Success: Change arshitasallagani1451@gmail.com'. The user 'arshitasallagani1451@gmail.com' now has an 'Access Level' of 'Basic' and a 'Last Accessed' timestamp of '2/13/2023'.

Name	Access Level	Date Added	Last Accessed
aditya Salunke adisa15@gmail.com	Basic	2/13/2023	2/13/2023
arshitasallagani1451@gmail.com arshitasallagani1451@gmail.com	Basic	2/13/2023	Never
chaitanyashetty47@gmail.com chaitanyashetty47@gmail.com	Basic	2/13/2023	Never



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Copy the organization link and paste it into your LOCAL folder

And copy the files you want to upload to azure project

```
C:\Users\mca_dept\Downloads\google-homepage--main(1)\google-homepage--main\Project%20front%20end>git clone https://SPIT13-02-23@dev.azure.com/SPIT13-02-23/Project%20front%20end/_git/Project%20front%20end
```

```
Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.

C:\Users\mca_dept\Downloads\google-homepage--main(1)\google-homepage--main\Project%20front%20end>git add .
warning: in the working copy of 'Google.com.files/google-icon-logo-svg-vector.svg', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'Google.com.files/google-icon-logo.eps', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'Google.com.files/google.css', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'README.md', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'google.css', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'index.html', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'reset.css', LF will be replaced by CRLF the next time Git touches it

C:\Users\mca_dept\Downloads\google-homepage--main(1)\google-homepage--main\Project%20front%20end>git commit -m "Adding code base"
[master (root-commit) 25c88dal Adding code base
17 files changed, 637 insertions(+
create mode 100644 Google.com.files/150-1509470_circles-3-dots-menu-icon.png
create mode 100644 Google.com.files/google-icon-logo-13.jpg
create mode 100644 Google.com.files/google-icon-logo-svg-vector.svg
create mode 100644 Google.com.files/google-icon-logo.eps
create mode 100644 Google.com.files/google-microphone.png
create mode 100644 Google.com.files/google-search.png
create mode 100644 Google.com.files/google.css
create mode 100644 Google.com.files/googleSearch.png
create mode 100644 Google.com.files/google icon.png
create mode 100644 Google.com.files/google logo.png
create mode 100644 Google.com.files/search_black_24dp.svg
create mode 100644 README.md
create mode 100644 google.css
create mode 100644 googlelogo.png
create mode 100644 index.html
create mode 100644 reset.css
create mode 100644 user.jpg

C:\Users\mca_dept\Downloads\google-homepage--main(1)\google-homepage--main\Project%20front%20end>git push -u origin --all
Enumerating objects: 19, done.
Counting objects: 100% (19/19), done.
Delta compression using up to 4 threads
Compressing objects: 100% (19/19), done.
Writing objects: 100% (19/19), 87.49 KiB | 12.50 MiB/s, done.
Total 19 (delta 0), reused 0 (delta 0), pack-reused 0
remote: Analyzing objects... (19/19) (6 ms)
remote: Storing packfile... done (48 ms)
remote: Storing index... done (29 ms)
To https://dev.azure.com/SPIT13-02-23/Project%20front%20end/_git/Project%20front%20end
 * [new branch]      master -> master
branch 'master' set up to track 'origin/master'.

C:\Users\mca_dept\Downloads\google-homepage--main(1)\google-homepage--main\Project%20front%20end>
```



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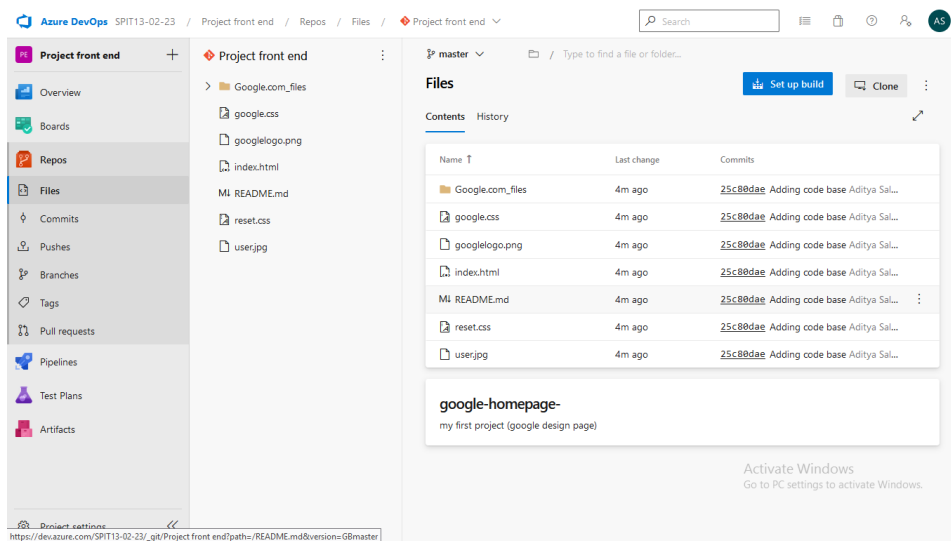
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File has been added





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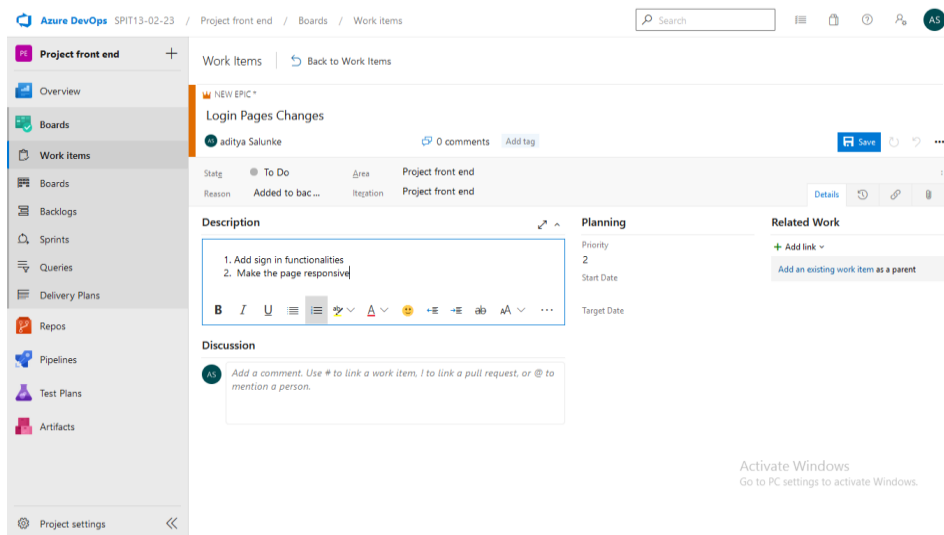
Semester: I

Subject: **Software Engineering Lab**

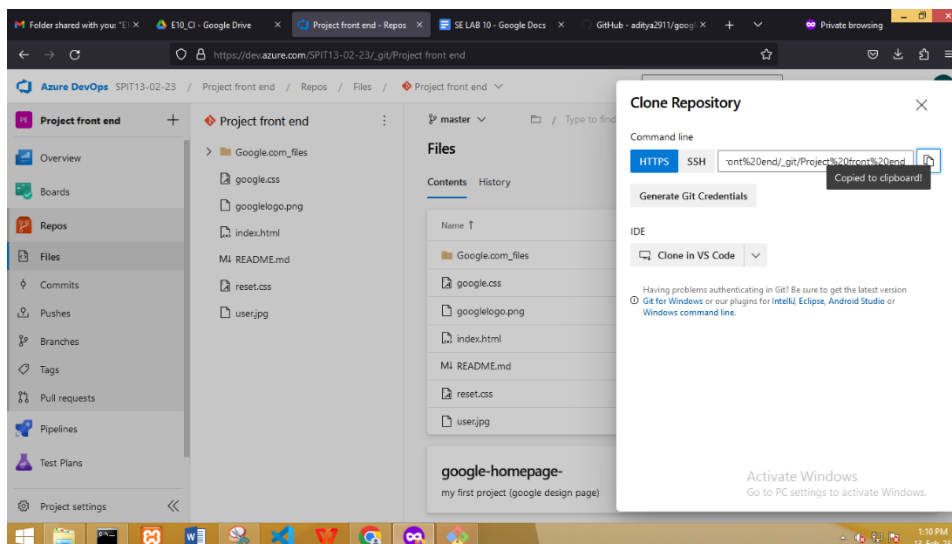
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Assign Task to your developer



Developer would clone the codebase





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Developer would make changes in the code base and push it to a branch

```
Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.

C:\Users\mca_dept\Desktop\New LAB 10 PROJECT>GIT INIT
fatal: cannot handle INIT as a builtin

C:\Users\mca_dept\Desktop\New LAB 10 PROJECT>git init
Initialized empty Git repository in C:/Users/mca_dept/Desktop/New LAB 10 PROJECT/.git/

C:\Users\mca_dept\Desktop\New LAB 10 PROJECT>git clone https://SPIT13-02-23@dev.azure.com/SPIT13-02-23/Project%20front%20end/_git/Project%20front%20end
Cloning into 'Project%20front%20end'...
remote: Azure Repos
remote: Found 19 objects to send. (22 ms)
Unpacking objects: 100% (19/19), 87.47 KiB | 122.00 KiB/s, done.

C:\Users\mca_dept\Desktop\New LAB 10 PROJECT>

Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.

C:\Users\mca_dept\Desktop\New LAB 10 PROJECT\Project%20front%20end>git branch
* master

C:\Users\mca_dept\Desktop\New LAB 10 PROJECT\Project%20front%20end>git branch Epic_1

C:\Users\mca_dept\Desktop\New LAB 10 PROJECT\Project%20front%20end>git checkout Epic_1
Switched to branch 'Epic_1'

C:\Users\mca_dept\Desktop\New LAB 10 PROJECT\Project%20front%20end>git branch
* Epic_1
  master

C:\Users\mca_dept\Desktop\New LAB 10 PROJECT\Project%20front%20end>git add .

C:\Users\mca_dept\Desktop\New LAB 10 PROJECT\Project%20front%20end>git status
On branch Epic_1
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   index.html

C:\Users\mca_dept\Desktop\New LAB 10 PROJECT\Project%20front%20end>git commit -m "Epic 1 changes"
[Epic_1 65909f0] Epic 1 changes
1 file changed, 2 insertions(+), 1 deletion(-)

C:\Users\mca_dept\Desktop\New LAB 10 PROJECT\Project%20front%20end>git push origin Epic_1
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 312 bytes | 312.00 KiB/s, done.
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Analyzing objects... (3/3) (6 ms)
remote: Storing packfile... done (39 ms)
remote: Storing index... done (26 ms)
To https://dev.azure.com/SPIT13-02-23/Project%20front%20end/_git/Project%20front%20end
 * [new branch]      Epic_1 -> Epic_1

C:\Users\mca_dept\Desktop\New LAB 10 PROJECT\Project%20front%20end>
```




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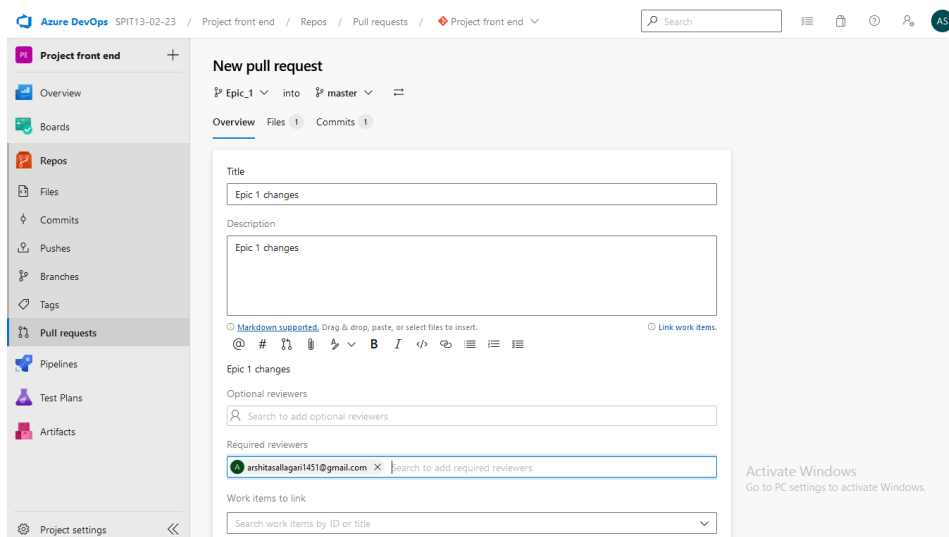
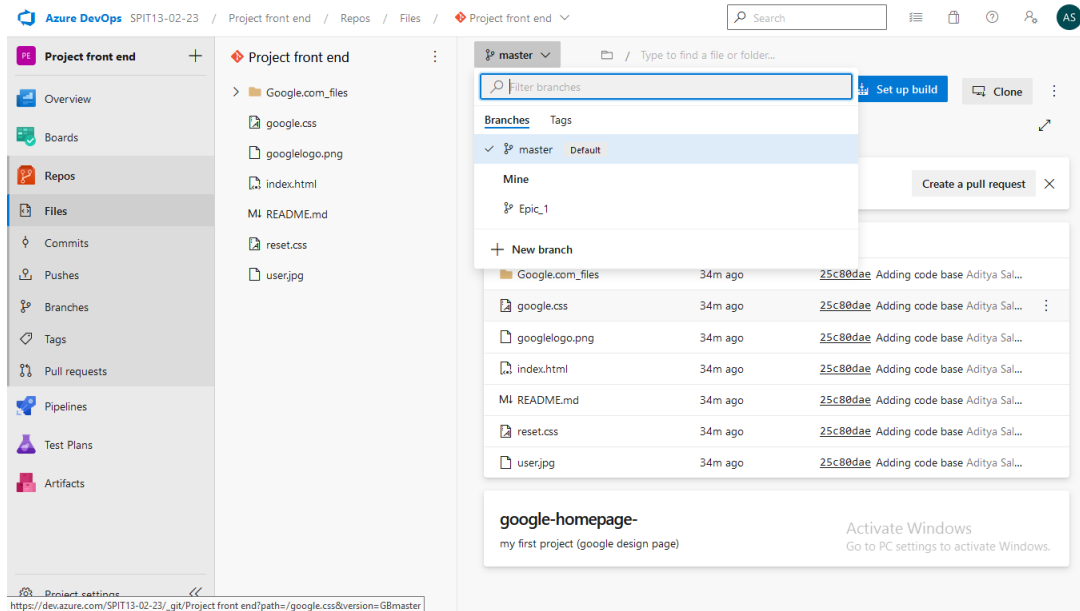
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Admin would check the developer codebase and finally merge into master branch.





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The screenshot shows the Azure DevOps web interface. The left sidebar contains navigation links: Project front end, Overview, Boards, Repos, Files, Commits, Pushes, Branches, Tags, Pull requests (selected), Pipelines, Test Plans, and Artifacts. The main area is titled 'New pull request' and shows a comparison between 'Epic_1' and 'master'. It indicates '1 changed file' and displays the 'index.html' file with a diff view. The code shows HTML for a Google logo and a navigation bar. At the bottom, there is a watermark that says 'Activate Windows Go to PC settings to activate Windows.'

The screenshot shows the 'Epic 1 changes' pull request details in Azure DevOps. The left sidebar is the same as the previous screenshot. The main area shows the pull request status as 'Active' and 'aditya Salunke Epic_1 into master'. It includes sections for 'Overview', 'Files', 'Updates', and 'Commits'. The 'Overview' section shows a message from 'aditya Salunke must approve' and a 'No merge conflicts' status. There is a 'Description' field with the text 'Epic 1 changes'. On the right, there are sections for 'Reviewers' (with a required reviewer 'aditya Salunke'), 'Tags' (no tags), and 'Work items' (no work items). At the bottom, there is a comment box and a list of recent activity, including 'aditya Salunke created the pull request'. A watermark at the bottom right says 'Activate Windows Go to PC settings to activate Windows.'



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