



BHARATIYA VIDYA BHAVAN'S
SARDAR PATEL INSTITUTE OF TECHNOLOGY
MUNSHI NAGAR, ANDHERI (WEST), MUMBAI – 400 058.
(Autonomous College Affiliated to University of Mumbai)
MASTER OF COMPUTER APPLICATIONS

Academic Year – 2022-23

Class: F.Y.MCA

Semester: I

Subject: **Software Engineering Lab**

Subject In charge: Nikhita Mangaonkar

Course Code: MC503

ROLL NO. : 05

BATCH: A

NAME: Tanmay Prashant Chavan

EXPERIMENT NO: 10

EXPERIMENT TITLE: Set up CI/CD workflow with github or azure

Objective:

1. Set up CI/CD pipelining to the current project.

Screenshots:



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1. Initialize github repo

Firefox Web Browser

SPIT-TanmayChavan2403/peerLearning — Mozilla Firefox

SPIT-TanmayChavan2403 x Customize and apply bac x Firebase CLI x Moodle Submissions - Go x E10_2022510005 - Googl x +

https://github.com/SPIT-TanmayChavan2403/peerLearning

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SPIT-TanmayChavan2403 / peerLearning Public

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master 1 branch 0 tags

Go to file Add file <> Code

SPIT-TanmayChavan2403 Set up complete for workflow ✓ bfffb14 6 minutes ago 10 commits

.firebase	Added firebase config files	26 minutes ago
.github/workflows	Set up complete for workflow	6 minutes ago
.vscode	Initial commit	2 hours ago
src	First commit	1 hour ago
.editorconfig	Initial commit	2 hours ago
.firebase	Added firebase config files	26 minutes ago
.gitignore	Added firebase config files	26 minutes ago
README.md	Initial commit	2 hours ago
angular.json	Added workFlow file	1 hour ago

About

No description, website, or topics provided.

Readme

0 stars

1 watching

0 forks

Releases

No releases published

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Packages



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2. Create new file (workflow file)

The screenshot shows a GitHub repository page for `SPIT-TanmayChavan2403/peerLearning`. The repository is public and has 10 commits. The 'Add file' dropdown menu is open, showing the option to 'Create new file'. The repository contains several files and folders, including `.firebase`, `.github/workflows`, `.vscode`, `src`, `.editorconfig`, `.firebase`, `.gitignore`, `README.md`, and `angular.json`. The 'About' section on the right indicates that there is no description, website, or topics provided for this repository.



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3. Create directory **.github/workflows/**filename.yml and set up the workflow commands which are **events, jobs, runner, steps, actions**. This one is for **push** events so when code is pushed to the master branch the workflow will start.

```
1 # This file was auto-generated by the Firebase CLI
2 # https://github.com/firebase/firebase-tools
3
4 name: Deploy to Firebase Hosting on merge
5 'on':
6   push:
7     branches:
8       - master
9 jobs:
10   build_and_deploy:
11     runs-on: ubuntu-latest
12     steps:
13       - uses: actions/checkout@v2
14       - run: npm ci && npm run build
15       - uses: FirebaseExtended/action-hosting-deploy@v0
16         with:
17           repoToken: '${{ secrets.GITHUB_TOKEN }}'
18           firebaseServiceAccount: '${{ secrets.FIREBASE_SERVICE_ACCOUNT_WTPEERLEARNING }}'
19           channelId: live
20           projectId: wtpeerlearning
```



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4. Set-up another workflow for **pull request** action which means, whenever we initiate pull_request workflow will start.

The screenshot shows a GitHub repository named 'peerLearning' by user 'SPIT-TanmayChavan2403'. The file being edited is 'firebase-hosting-pull-request.yml' in the 'master' branch. The workflow configuration is as follows:

```
1 # This file was auto-generated by the Firebase CLI
2 # https://github.com/firebase/firebase-tools
3
4 name: Deploy to Firebase Hosting on PR
5 'on': pull_request
6 jobs:
7   build_and_preview:
8     if: '${{ github.event.pull_request.head.repo.full_name == github.repository }}'
9     runs-on: ubuntu-latest
10    steps:
11      - uses: actions/checkout@v2
12      - run: npm ci && npm run build
13      - uses: FirebaseExtended/action-hosting-deploy@v0
14        with:
15          repoToken: '${{ secrets.GITHUB_TOKEN }}'
16          firebaseServiceAccount: '${{ secrets.FIREBASE_SERVICE_ACCOUNT_WTPEERLEARNING }}'
17          projectId: wtpeerlearning
```

On the right side, the 'Marketplace' tab is active, showing 'Featured Actions' such as 'Cache', 'Setup Go environment', and 'Close Stale Issues'.



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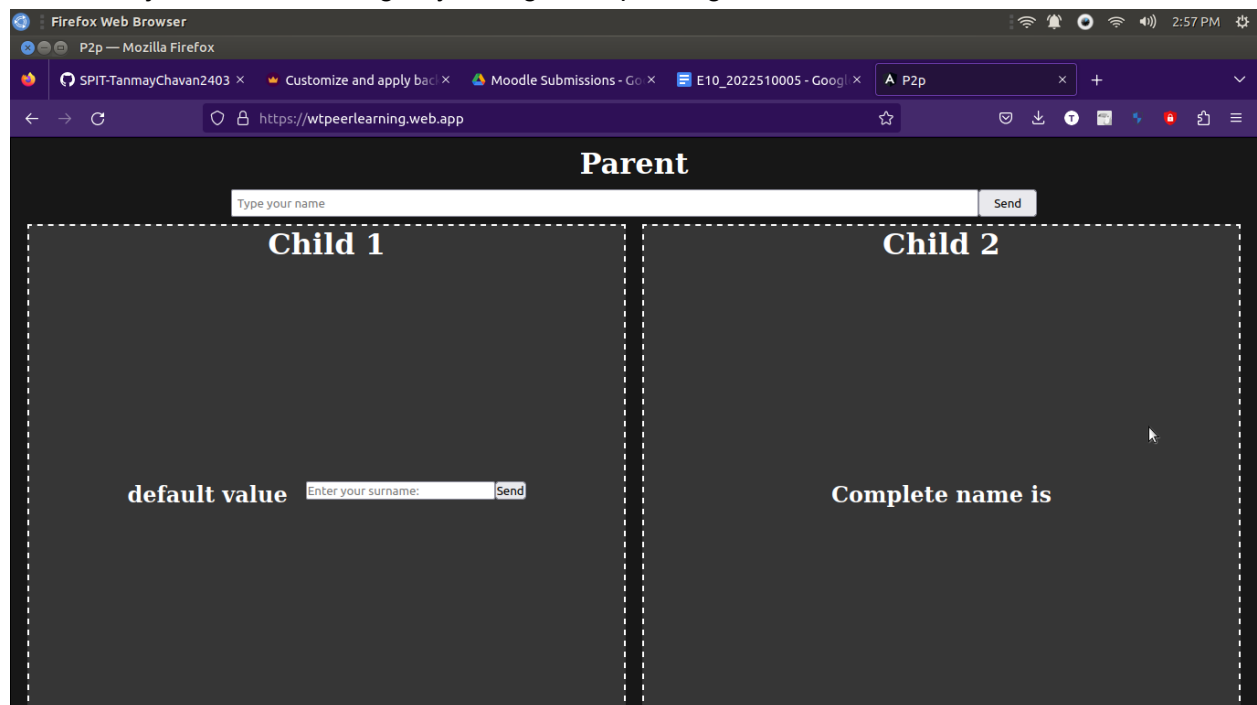
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5. Project, before making any change and pushing.





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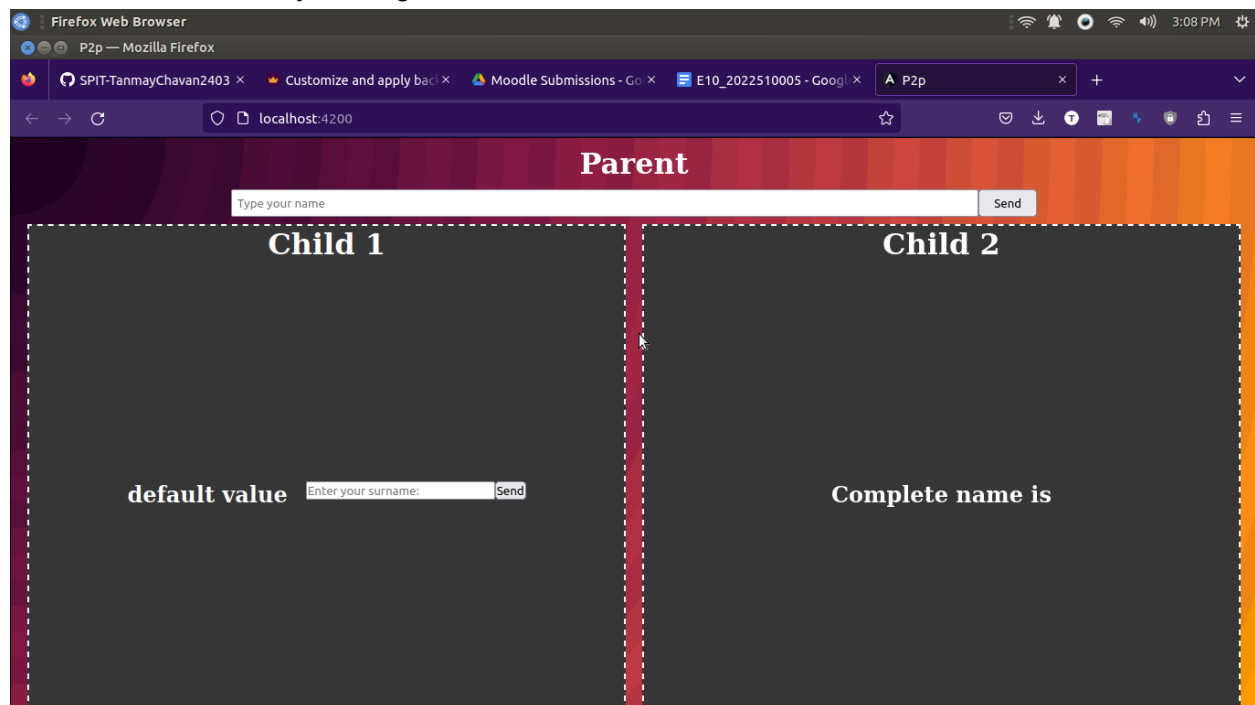
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6. Now changing the background as shown in the picture below, **it's on localhost** as it can be confirmed by looking at url.





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7. You can confirm the change in the picture below, git status shows which files have been changed and I have simply added **line 8 to line 13** to change the background.

The screenshot shows the Visual Studio Code interface. The Explorer panel on the left shows the project structure with files like .firebase, .github, .vscode, build, dist, node_modules, src, app, assets, favicon.ico, index.html, main.ts, and styles.css. The main editor shows the content of styles.css, which includes a comment about adding global styles and a body selector with background properties. The terminal window at the bottom shows the output of the 'git status' command, indicating that the branch is up to date with 'origin/master' and that there are changes not staged for commit in the file 'src/styles.css'.

```
p2p > src > # styles.css > ...
1  /* You can add global styles to this file, and also import other style files */
2  *{
3    margin: 0px;
4    padding: 0px;
5    box-sizing: border-box;
6  }
7
8  body{
9    background-color: #ff9d00;
10   background-image: url("data:image/svg+xml,%3Csvg xmlns='http://www.w3.org/2000/svg' width='1
11   background-attachment: fixed;
12   background-size: cover;
13 }
14
15
16 *** PLEASE DO NOT REMOVE THIS COMMENT ***
```

```
hackytech@Hackytech:/media/hackytech/Data/MCA/First Year/Sem 1/Practicals/WT/Peer learning/p2p$ git status
On branch master
Your branch is up to date with 'origin/master'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modified:   src/styles.css

no changes added to commit (use "git add" and/or "git commit -a")
hackytech@Hackytech:/media/hackytech/Data/MCA/First Year/Sem 1/Practicals/WT/Peer learning/p2p$
```




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8. Updates are pushed to master branch

```
Visual Studio Code File Edit Selection View Go Run Terminal Help
styles.css - Peer learning - Visual Studio Code

EXPLORER
OPEN EDITORS
# styles.css p2p/src
PEER LEARNING
> .firebase
> .github
> .vscode
> build
> dist
> node_modules
> src
> app
> assets
> favicon.ico
> index.html
> main.ts
# styles.css
.editorconfig
.firebase
.gitignore
.angular.json
.firebase.json
.package-lock.json
.package.json
README.md
tsconfig.app.json
tsconfig.json
tsconfig.spec.json

OUTLINE
TIMELINE

TERMINAL
bash - p2p
hackytech@Hackytech:/media/hackytech/Data/MCA/First Year/Sem 1/Practicals/WT/Peer learning/p2p$ git add .
hackytech@Hackytech:/media/hackytech/Data/MCA/First Year/Sem 1/Practicals/WT/Peer learning/p2p$ git commit -m "Updated background"
[master 8bef4a6] Updated background
1 file changed, 7 insertions(+), 1 deletion(-)
hackytech@Hackytech:/media/hackytech/Data/MCA/First Year/Sem 1/Practicals/WT/Peer learning/p2p$ git push -u origin master
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 2 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 910 bytes | 910.00 KiB/s, done.
Total 4 (delta 2), reused 0 (delta 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/SPIT-TanmayChavan2403/peerLearning.git
bfffbb14..8bef4a6 master -> master
Branch 'master' set up to track remote branch 'master' from 'origin'.
hackytech@Hackytech:/media/hackytech/Data/MCA/First Year/Sem 1/Practicals/WT/Peer learning/p2p$
```



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9. Github workflow is started successfully

The screenshot shows a Firefox browser window displaying a GitHub Actions workflow run. The URL is <https://github.com/SPIT-TanmayChavan2403/peerLearning/actions/runs/4155722726/jobs/7185>. The workflow is named 'build_and_deploy' and started 47s ago. The left sidebar shows the 'Summary' tab selected, with 'Jobs' listed below it. The 'build_and_deploy' job is highlighted. The main content area shows the job details, including a table of files and their sizes, and a list of logs.

	Names	Raw Size	Estimated Transfer Size
25	Initial Chunk Files		
26	main.f2c8bfe79970ee2a.js	90.52 kB	27.10 kB
27	polyfills.8829c722b8c4a60c.js	33.05 kB	10.63 kB
28	styles.79520fc9d5b10a39.css	1.45 kB	407 bytes
29	runtime.d61349bcb1557a2a.js	884 bytes	514 bytes
30			
31	Initial Total	125.88 kB	38.63 kB
32			
33	Build at:	2023-02-12T09:42:53.738Z	Hash: ce921c4f2efd1434 - Time: 17497ms

21 npm WARN deprecated uuid@3.4.0: Please upgrade to version 7 or higher. Older versions may use Math.random() in certain circumstances, which is known to be problematic. See <https://v8.dev/blog/math-random> for details.

22 npm WARN deprecated debug@4.1.1: Debug versions >=3.2.0 <3.2.7 || >=4 <4.3.1 have a low-severity ReDos regression when used in a Node.js environment. It is recommended you upgrade to 3.2.7 or 4.3.1. (<https://github.com/visionmedia/debug/issues/797>)

23 npm WARN deprecated har-validator@5.1.3: this library is no longer supported

24 npm WARN deprecated request@2.88.2: request has been deprecated, see <https://github.com/request/request/issues/3142>

○ Post Run actions/checkout@v2



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10. Workflow is completed successfully and is deployed to firebase

The screenshot shows a Firefox Web Browser window displaying a GitHub Actions workflow run. The browser's address bar shows the URL: <https://github.com/SPIT-TanmayChavan2403/peerLearning/actions/runs/4155722726/jobs/7188...>. The GitHub interface shows the 'Actions' tab selected, with a workflow named 'Deploy to Firebase Hosting on merge' running successfully. The workflow is titled 'Updated background #2' and has a green checkmark indicating success. The 'build_and_deploy' job is highlighted in the 'Jobs' section, showing it succeeded in 58s. The 'Run details' section for the 'build_and_deploy' job lists the following steps and their durations:

Step	Duration
Set up job	2s
Run actions/checkout@v2	0s
Run npm ci & npm run build	34s
Run FirebaseExtended/action-hosting-deploy@v0	18s
Post Run actions/checkout@v2	0s
Complete job	0s



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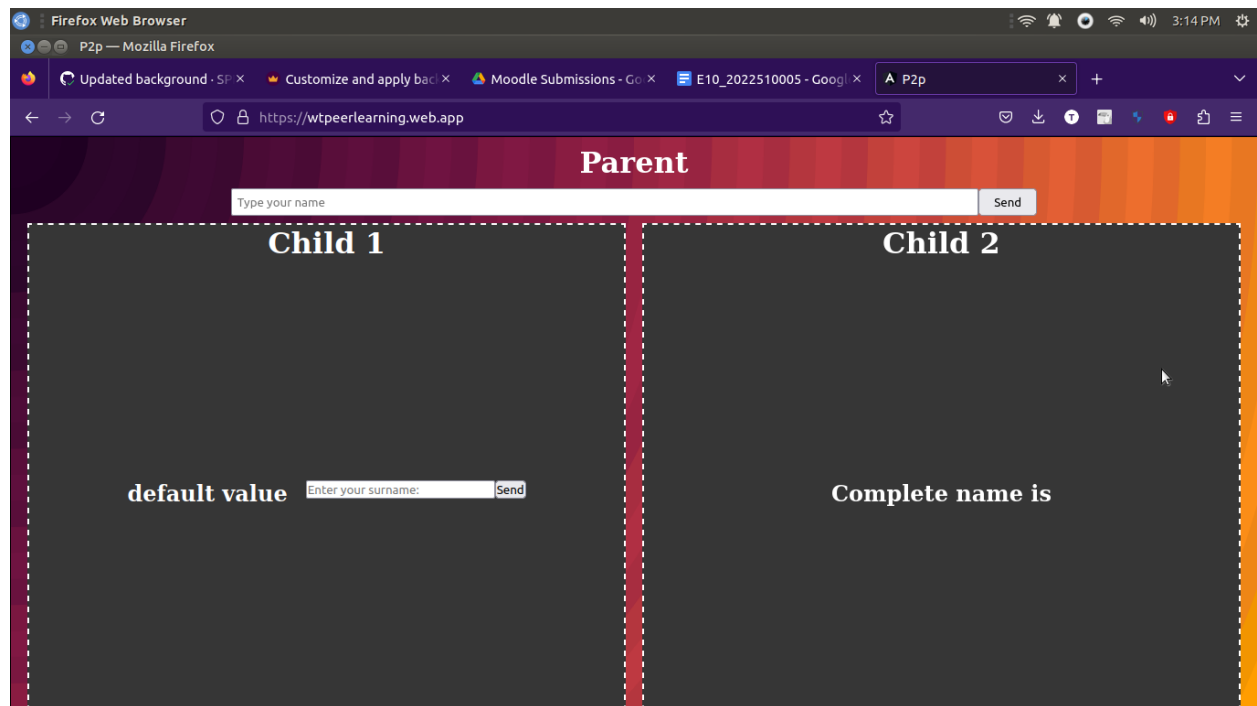
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11. Now if we check the [website on this link](#), we can see the change has been updated successfully.



Conclusion: Learned to set up workflow in github.