

Winter Semester 2023-24
Application Development and Deployment
Architecture

LAB FAT

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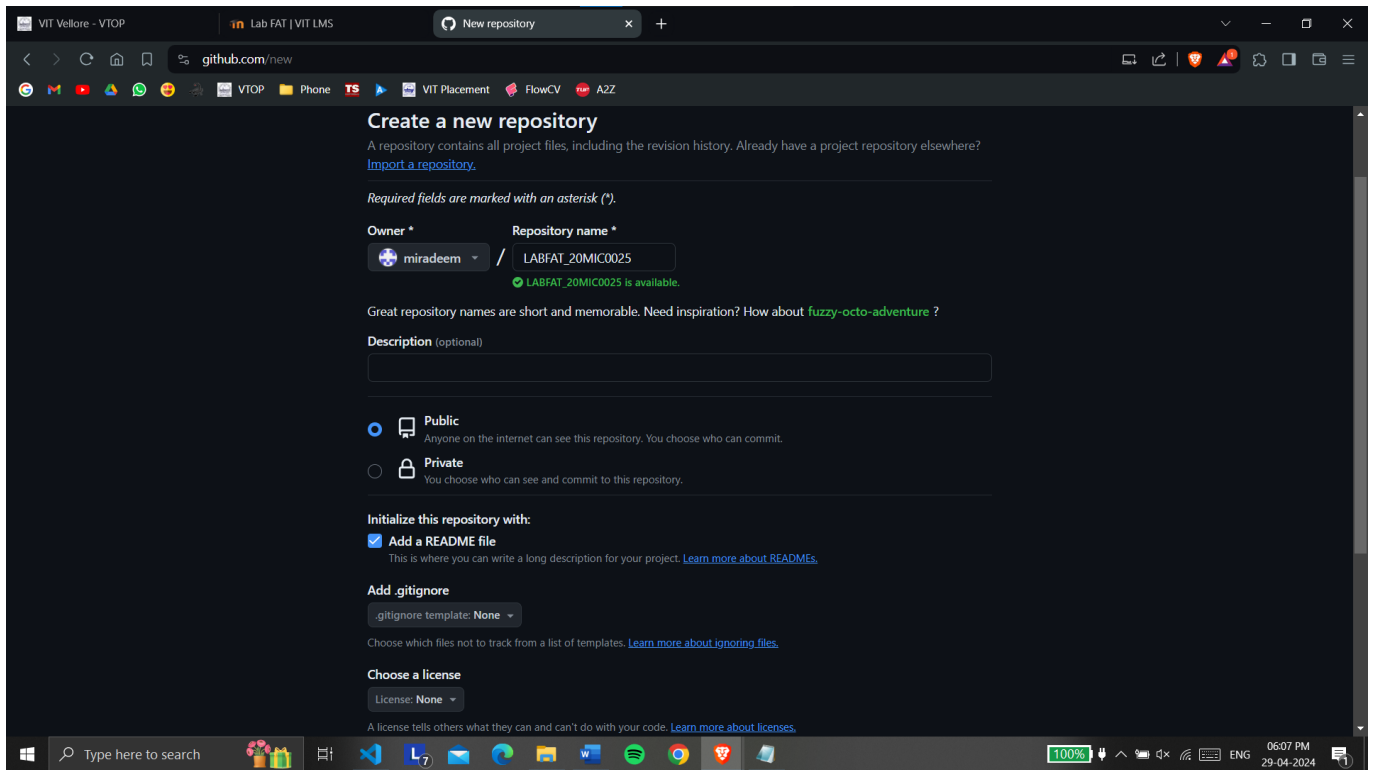
Course Code: CSI3025
Slot: G1 (L35+L36)

Q. Implement a CI/CD pipeline with the following real-world scenario:

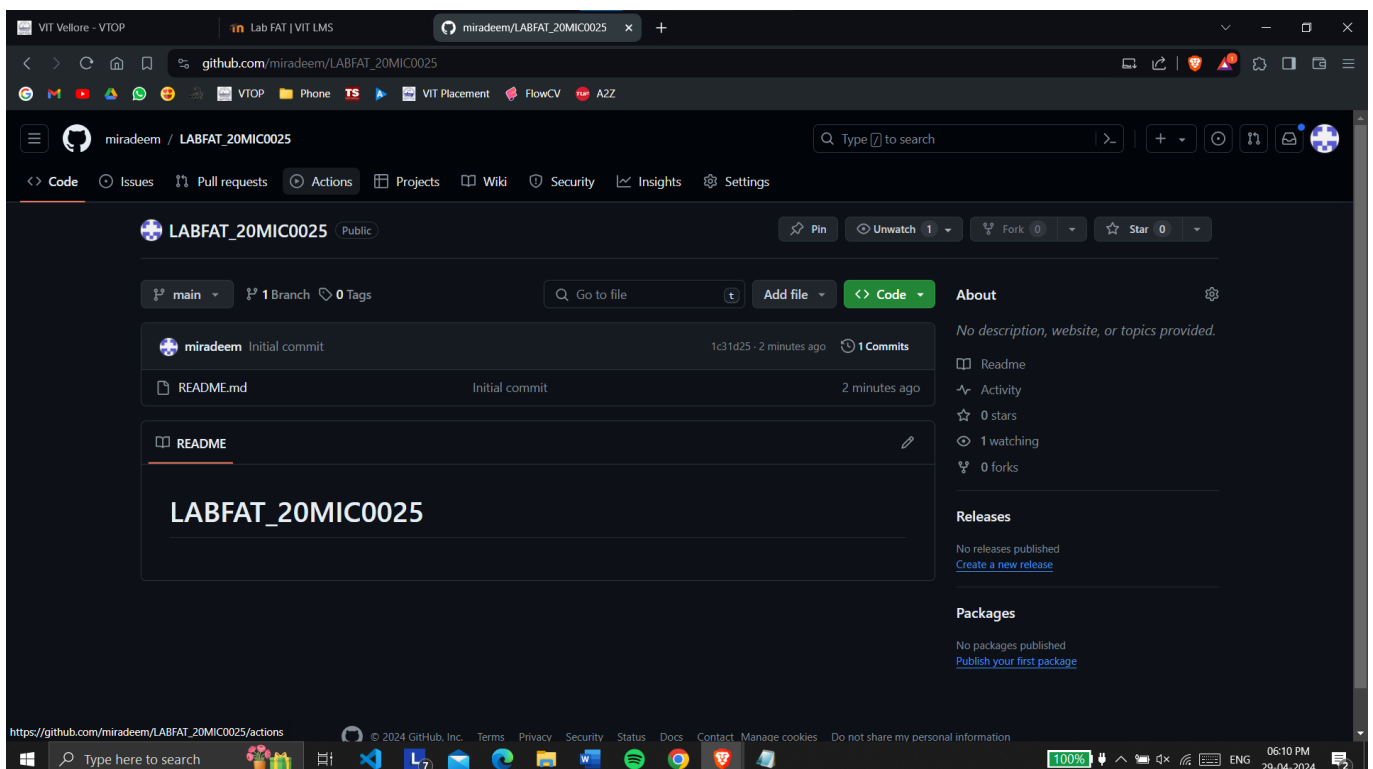
Scenario: You're writing documentation using Markdown files.

Task: Create a workflow that runs on push to any branch and uses an action like actions/markdown-toc to automatically generate a table of contents for your documentation.

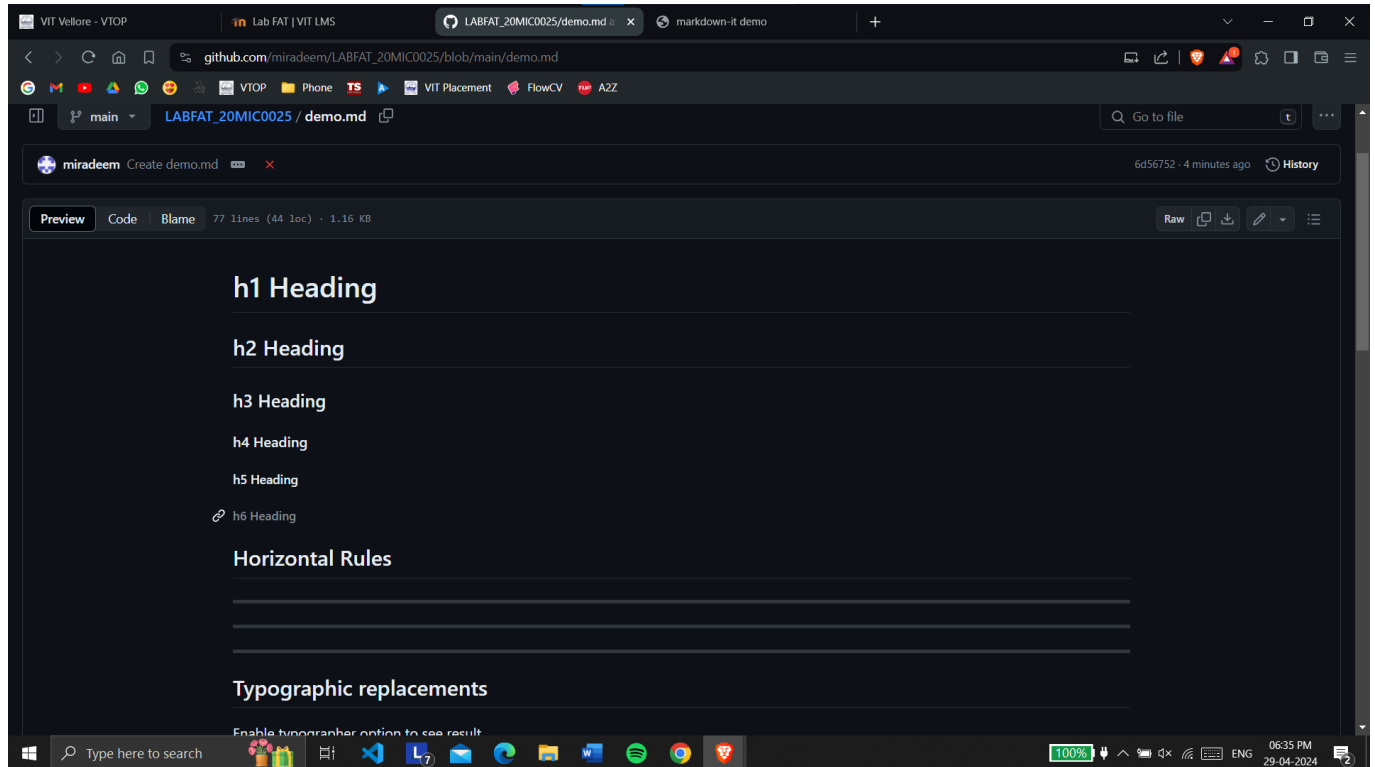
Create new repo:



Go to Actions page in the repo:

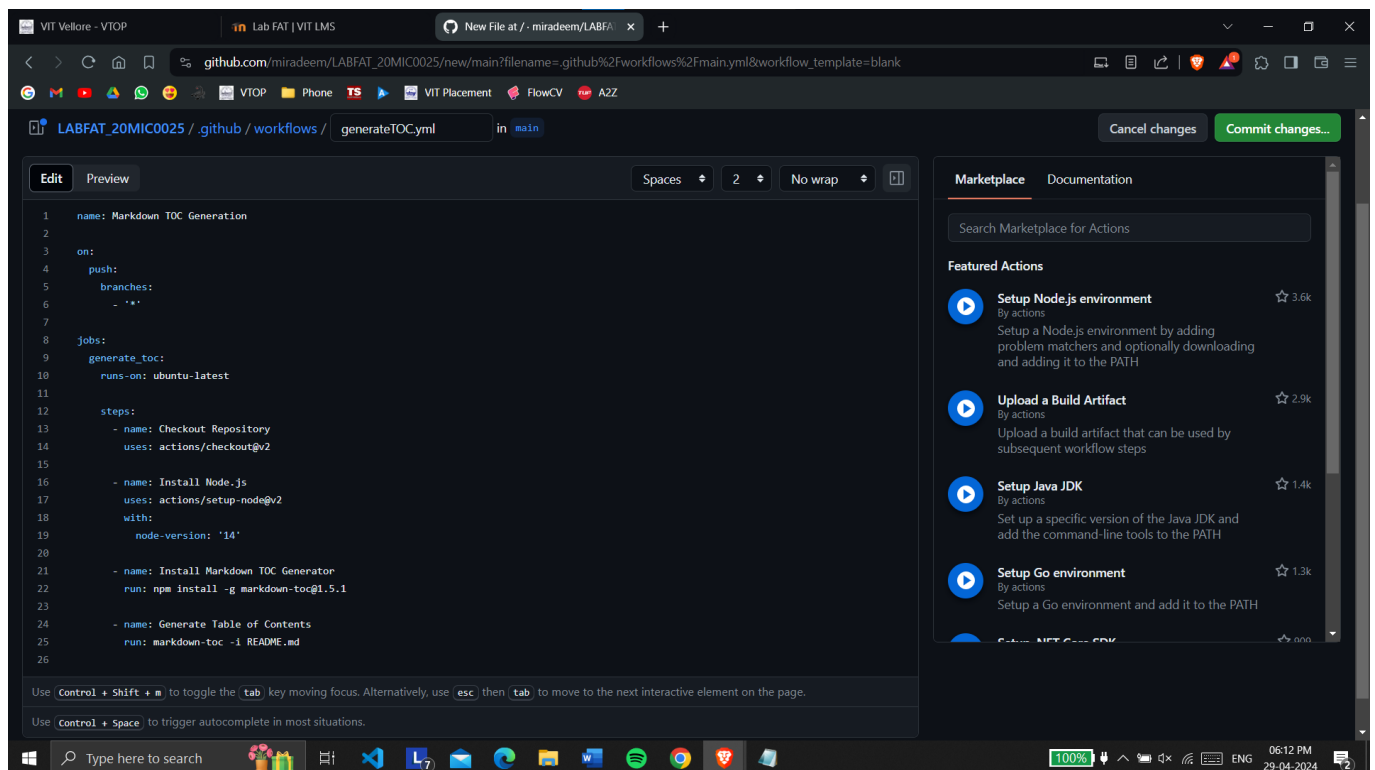


Create a sample markdown (.md) file in the main branch of your repo:



I have named this file as demo.md and it is present in the main branch of the repo.

Create a new YML file in .github/workflows:



Write the following code in the editor:

yaml code:

```
name: Markdown TOC Generation

on:
  push:
    branches:
      - '*'

jobs:
  generate_toc:
    runs-on: ubuntu-latest

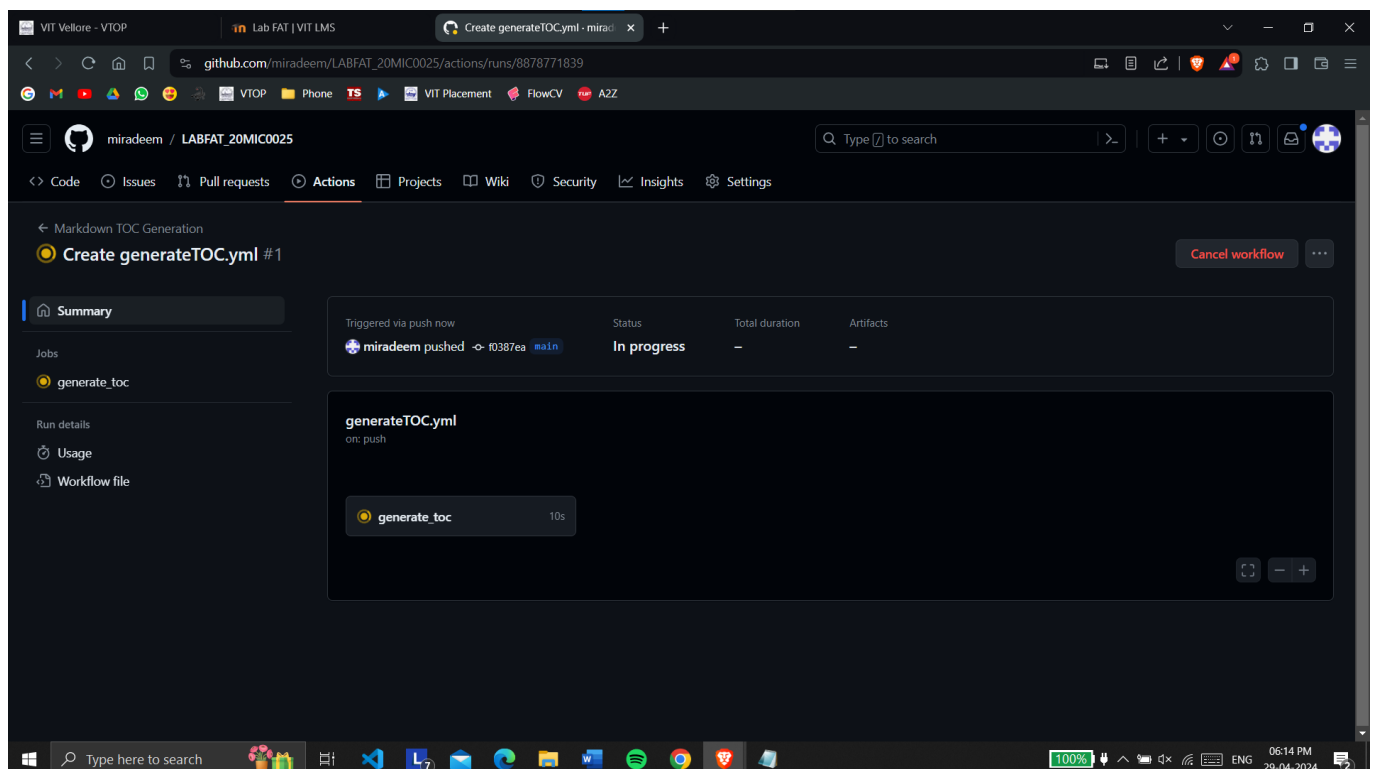
    steps:
      - name: Checkout Repository
        uses: actions/checkout@v2

      - name: Setup Node.js
        uses: actions/setup-node@v2
        with:
          node-version: '20'

      - name: Install Markdown TOC Generator
        run: npm install -g markdown-toc@1.2.0

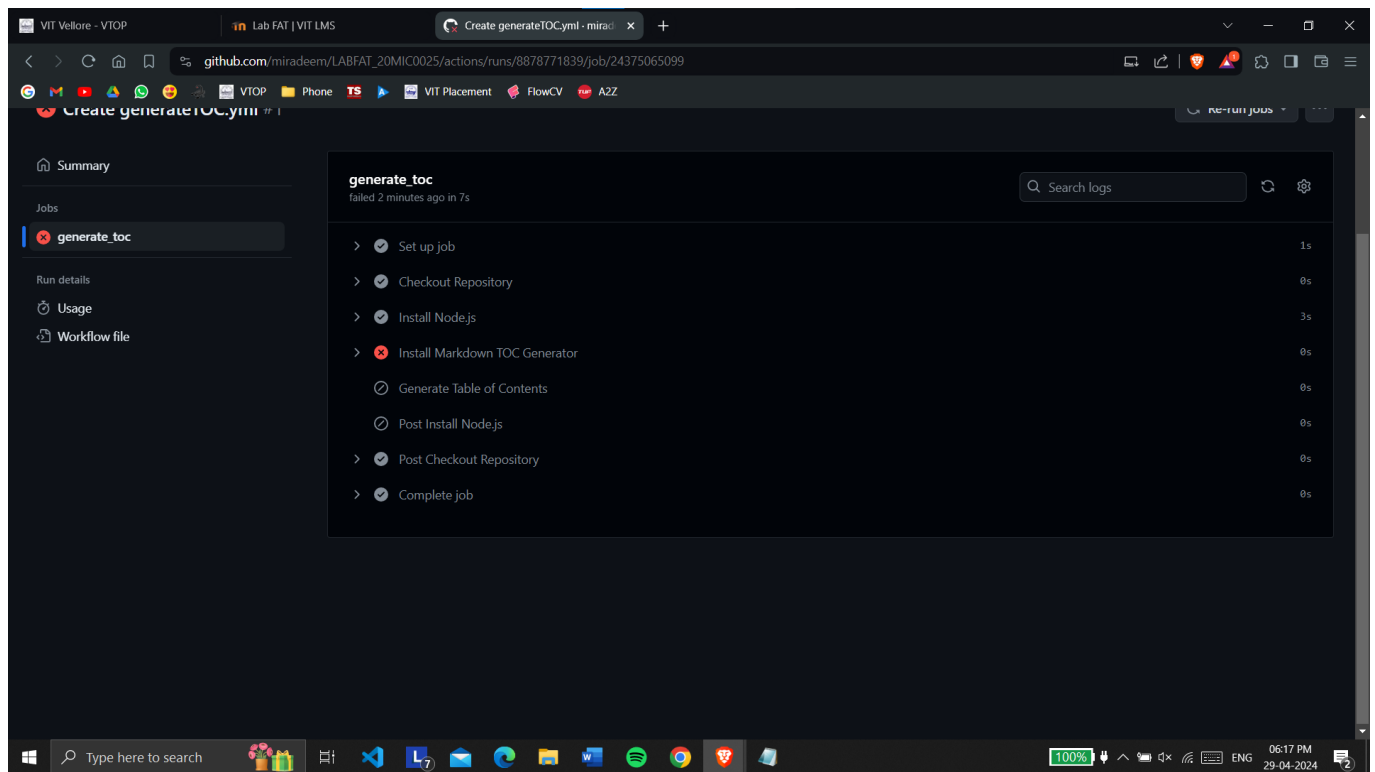
      - name: Generate Table of Contents
        run: markdown-toc -i demo.md
```

Once the code is complete, Click on Commit Changes and go to Actions:

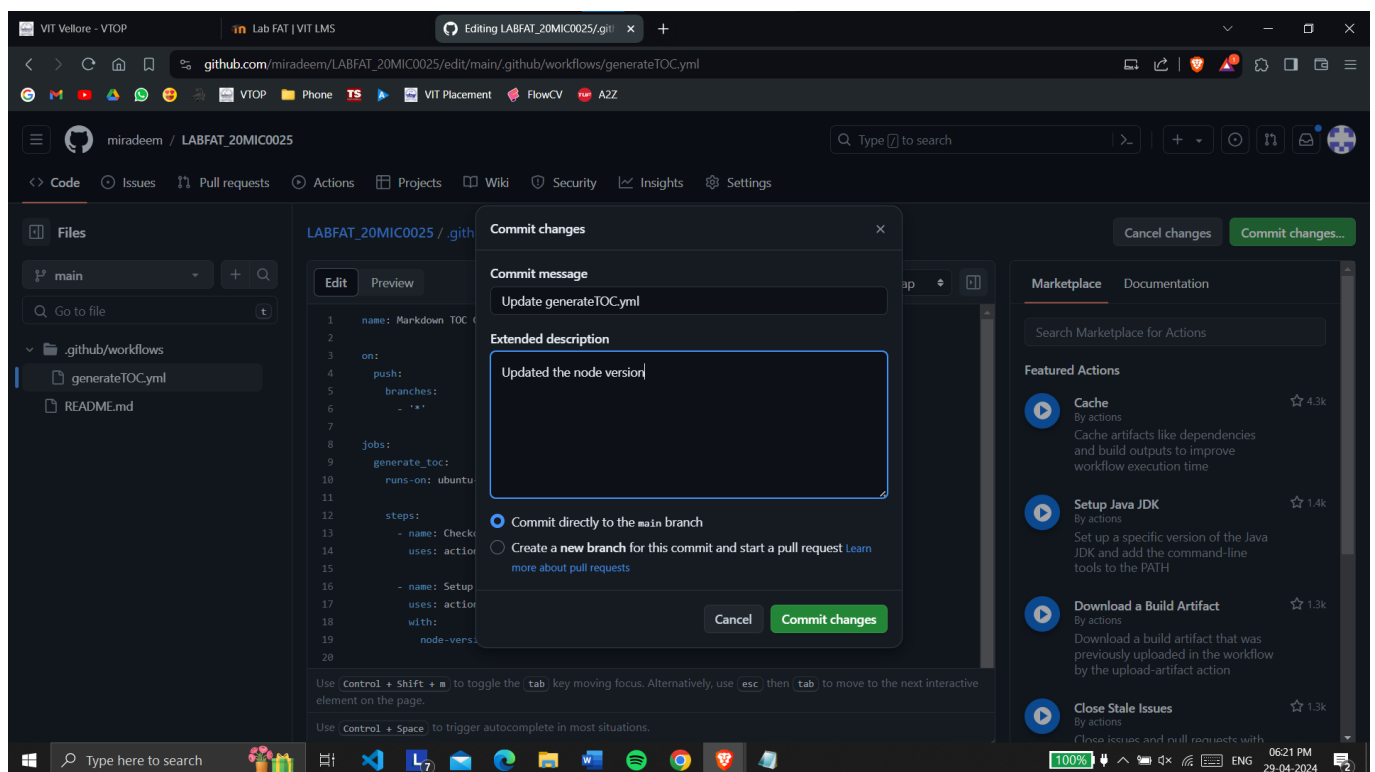


The workflow execution will start and it may take some time.

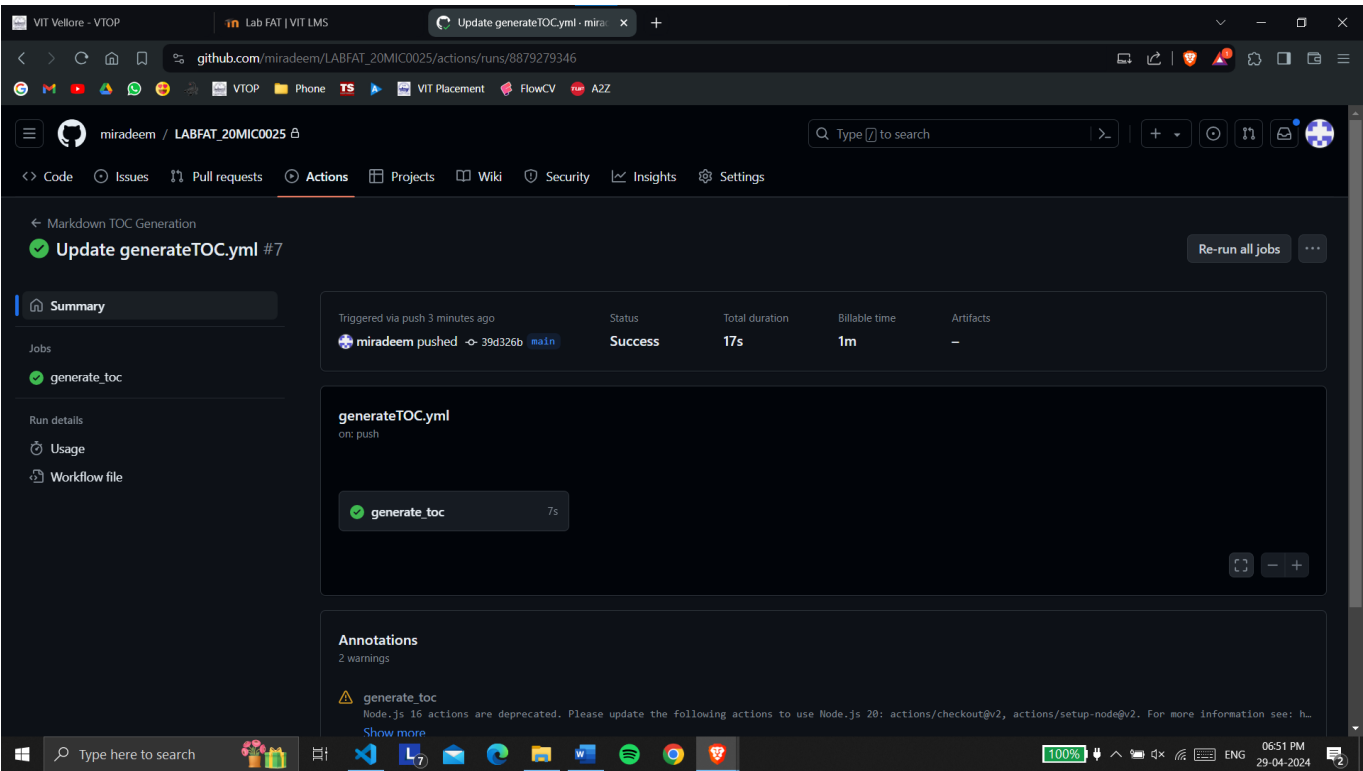
The following tasks will be performed and their status will be shown upon completion:



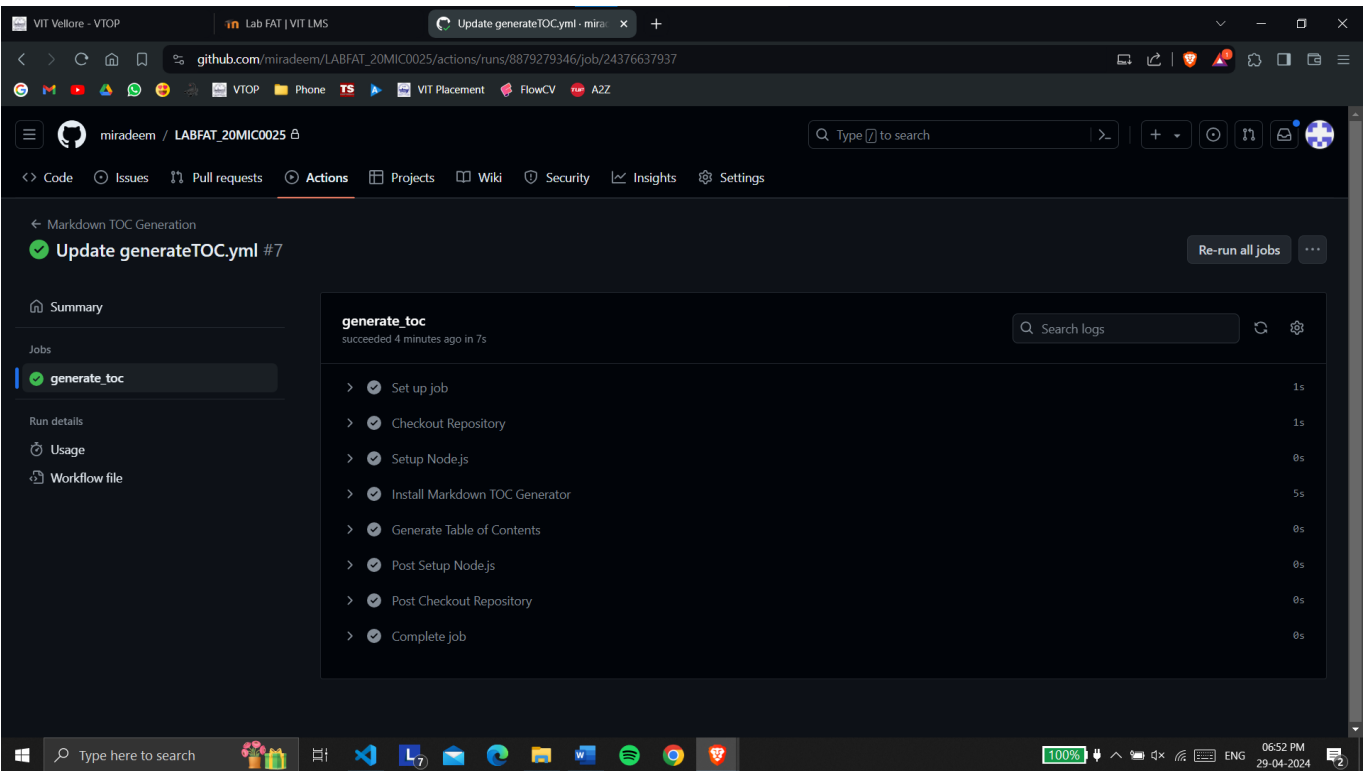
This error may be due to some version discontinuation. I have searched for the latest version and changed the yml code accordingly:



Once you identify the error and resolve it, commit the changes of the yml file and go back to Actions page:



Now as we can see, the workflow has successfully completed.



GITHUB LINK: https://github.com/miradeem/LABFAT_20MIC0025

This is a private repo. I have sent you a collaborator access link. Kindly accept it to view the repo and all its contents.