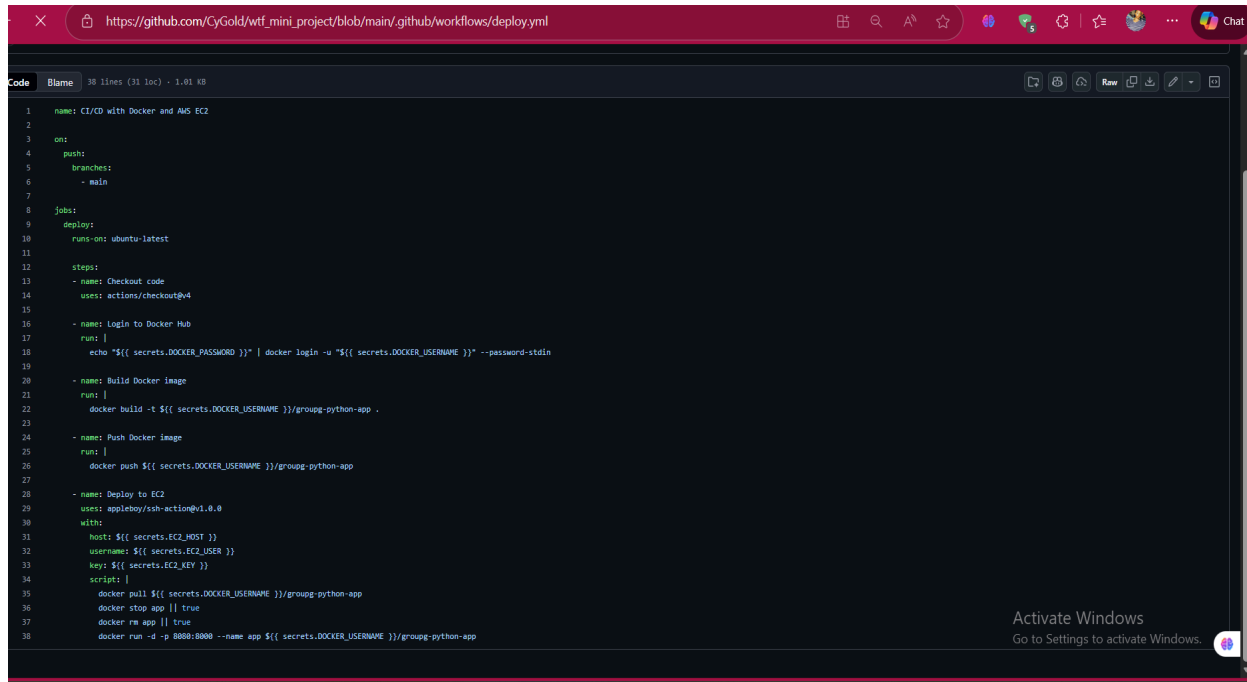


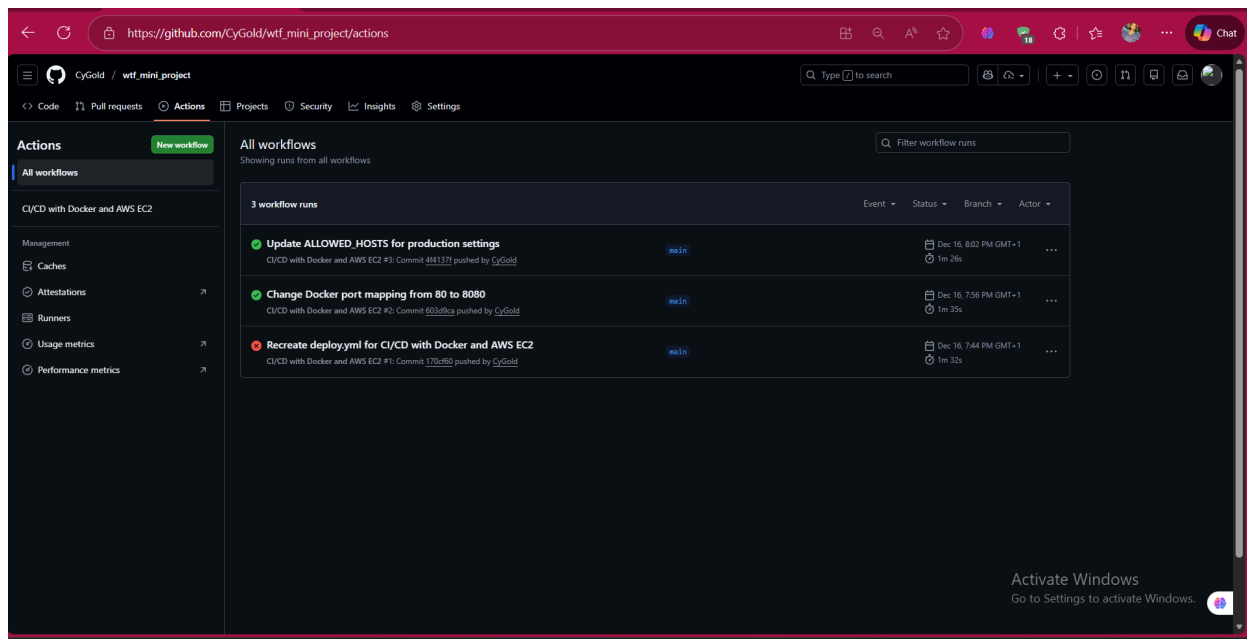
# NOV PROJECT-GROUP G



The screenshot shows a GitHub repository page for 'CyGold/wtf\_mini\_project'. The 'Code' tab is active, displaying a workflow file named 'deploy.yml'. The workflow is triggered on a push to the 'main' branch. It includes steps for checking out code, logging in to Docker Hub, building a Docker image, pushing it to Docker Hub, and deploying it to an EC2 instance using the 'appleboy/ssh-action'.

```
1 name: CI/CD with Docker and AWS EC2
2
3 on:
4   push:
5     branches:
6       - main
7
8 jobs:
9   deploy:
10    runs-on: ubuntu-latest
11
12    steps:
13      - name: Checkout code
14        uses: actions/checkout@v4
15
16      - name: Login to Docker Hub
17        run: |
18          echo "${{ secrets.DOCKER_PASSWORD }}" | docker login -u "${{ secrets.DOCKER_USERNAME }}" --password-stdin
19
20      - name: Build Docker Image
21        run: |
22          docker build -t "${{ secrets.DOCKER_USERNAME }}/group-python-app" .
23
24      - name: Push Docker image
25        run: |
26          docker push "${{ secrets.DOCKER_USERNAME }}/group-python-app"
27
28      - name: Deploy to EC2
29        uses: appleboy/ssh-action@v1.6.0
30        with:
31          host: "${{ secrets.EC2_HOST }}"
32          username: "${{ secrets.EC2_USER }}"
33          key: "${{ secrets.EC2_KEY }}"
34          script: |
35            docker pull "${{ secrets.DOCKER_USERNAME }}/group-python-app"
36            docker stop app || true
37            docker rm app || true
38            docker run -d -p 8080:8080 --name app "${{ secrets.DOCKER_USERNAME }}/group-python-app"
```

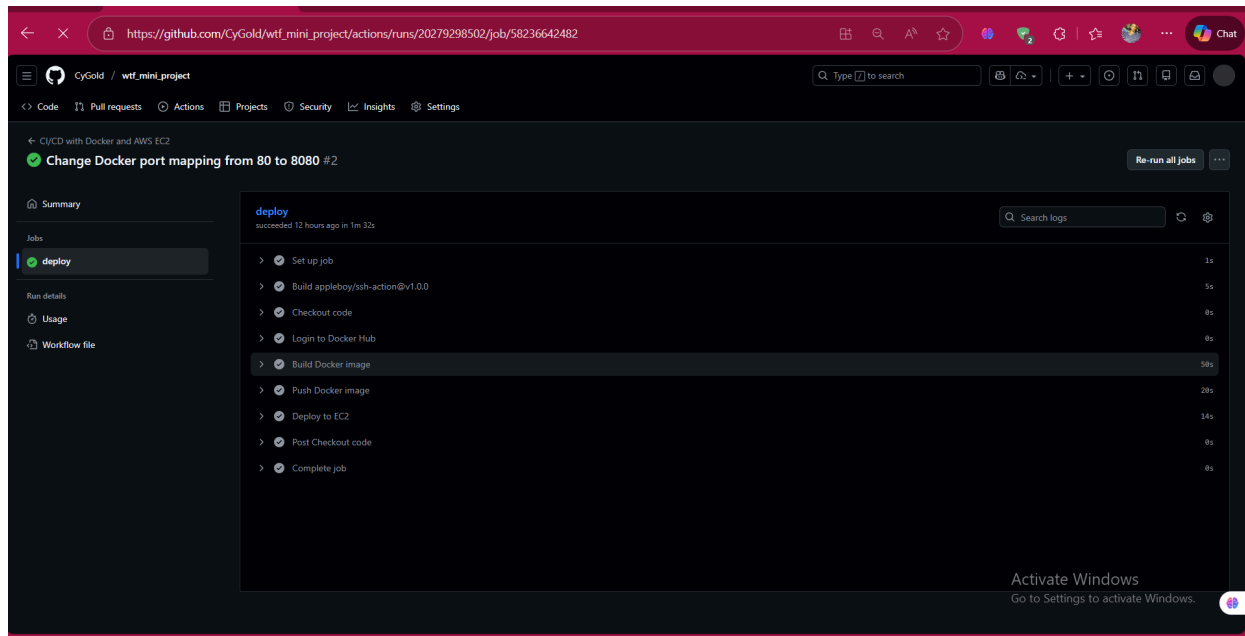
## Img1.0 GITHUB ACTIONS WORKFLOW YAML



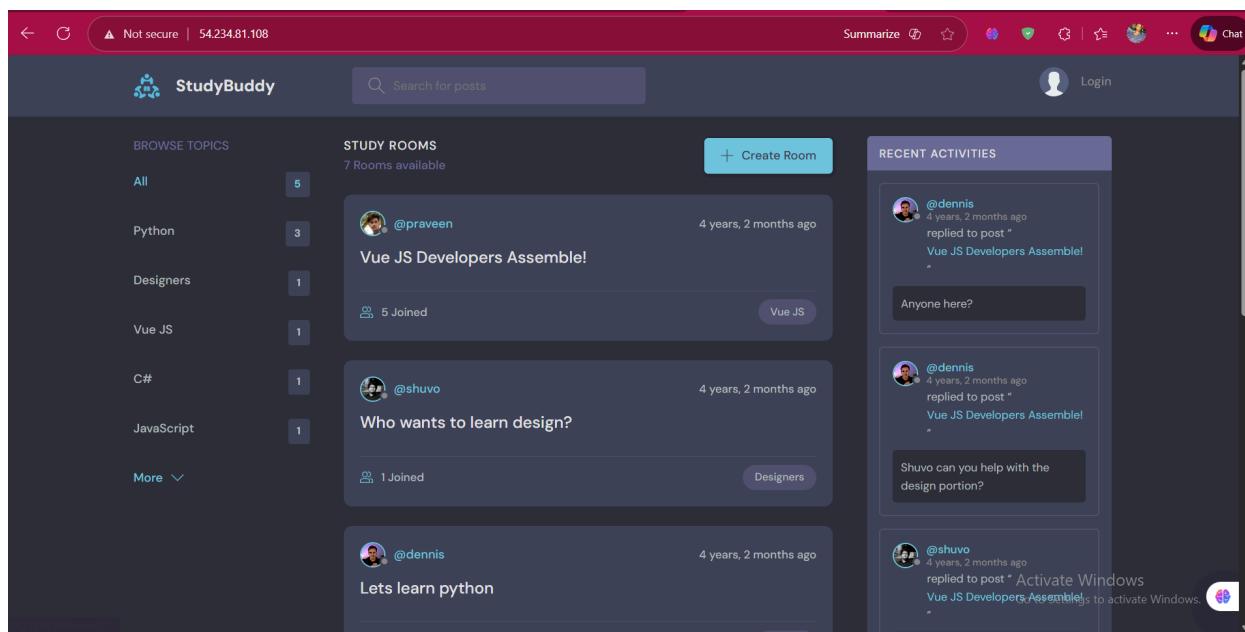
The screenshot shows the GitHub Actions interface for the 'CyGold/wtf\_mini\_project' repository. The 'Actions' tab is selected, displaying a list of workflow runs. The workflow is named 'CI/CD with Docker and AWS EC2'. The interface shows three workflow runs, with the most recent one being 'Recreate deploy.yml for CI/CD with Docker and AWS EC2'.

| Workflow Run  | Status  | Branch | Actor  | Event | Time   |
|---|---------|--------|--------|-------|--------|
| Update ALLOWED_HOSTS for production settings          | Success | main   | CyGold | Push  | 1m 26s |
| Change Docker port mapping from 80 to 8080            | Success | main   | CyGold | Push  | 1m 35s |
| Recreate deploy.yml for CI/CD with Docker and AWS EC2 | Failure | main   | CyGold | Push  | 1m 32s |

## IMG 2.0 ALL WORKFLOW DONE



IMG3.0 SUCCESSFUL WORKFLOW FOR CI/CD PIPELINE FOR AWS EC2, DOCKER AND DOCKER HUB



IMG4.0 STUDY BUDDY APPLICATION DEPLOYED

App Endpoint: <http://54.234.81.108:8080/>

EC2 Host: 54.234.81.108

Github Repository: [CyGold/wtf\\_mini\\_project](https://github.com/CyGold/wtf_mini_project): This repository holds our November mini-project

## PARTICIPANTS

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