

Lesson 10 Demo 02

Creating a Conditional Workflow

Objective: To create a conditional workflow to specify when a particular job or step should run

Tools required: GitHub Actions

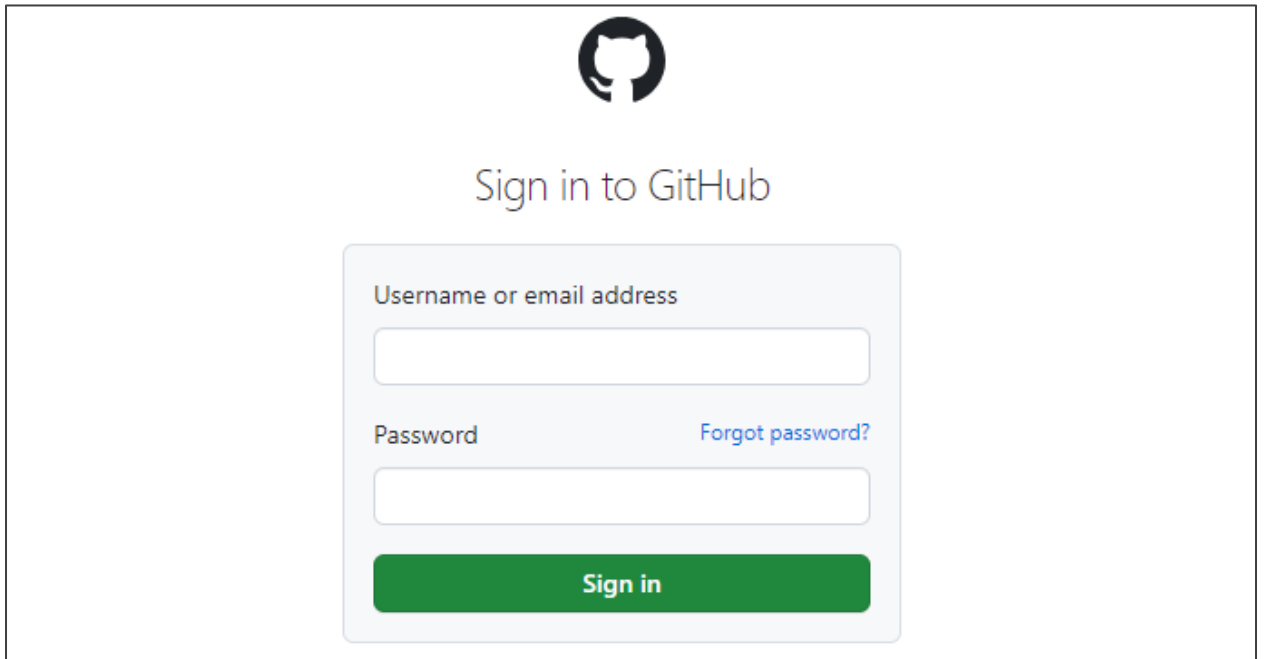
Prerequisites: None

Steps to be followed:

1. Create a new GitHub repository
2. Create and execute a new conditional workflow file

Step 1: Create a new GitHub repository

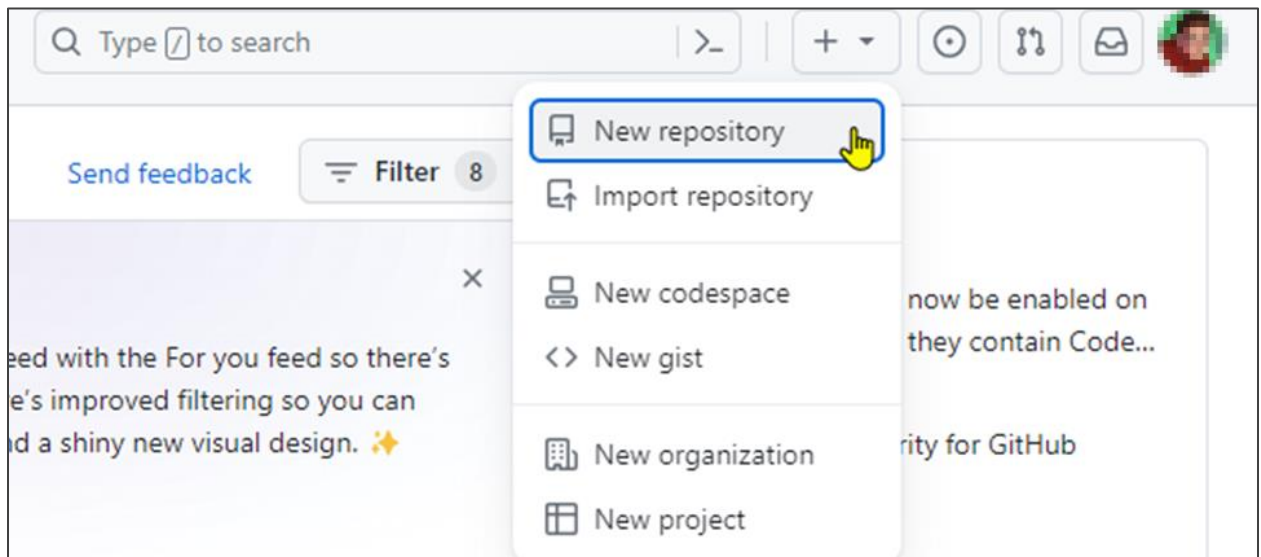
1.1 Open the browser in your lab, go to **github.com**, and log in to your account



The image shows the GitHub sign-in page. At the top center is the GitHub logo (an octocat). Below it, the text "Sign in to GitHub" is displayed. Underneath is a light gray rounded rectangle containing the login form. The form has two input fields: "Username or email address" and "Password". To the right of the password field is a blue link that says "Forgot password?". At the bottom of the form is a green button with the text "Sign in" in white.

Note: If you do not have a GitHub account, visit the official website at <https://github.com/signup> and create a new account

- 1.2 Click on the + icon from the upper-right corner of the page and select **New repository** from the drop-down menu




- 1.3 Enter the name and description for the GitHub repository

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

Required fields are marked with an asterisk ().*

Owner *

 /

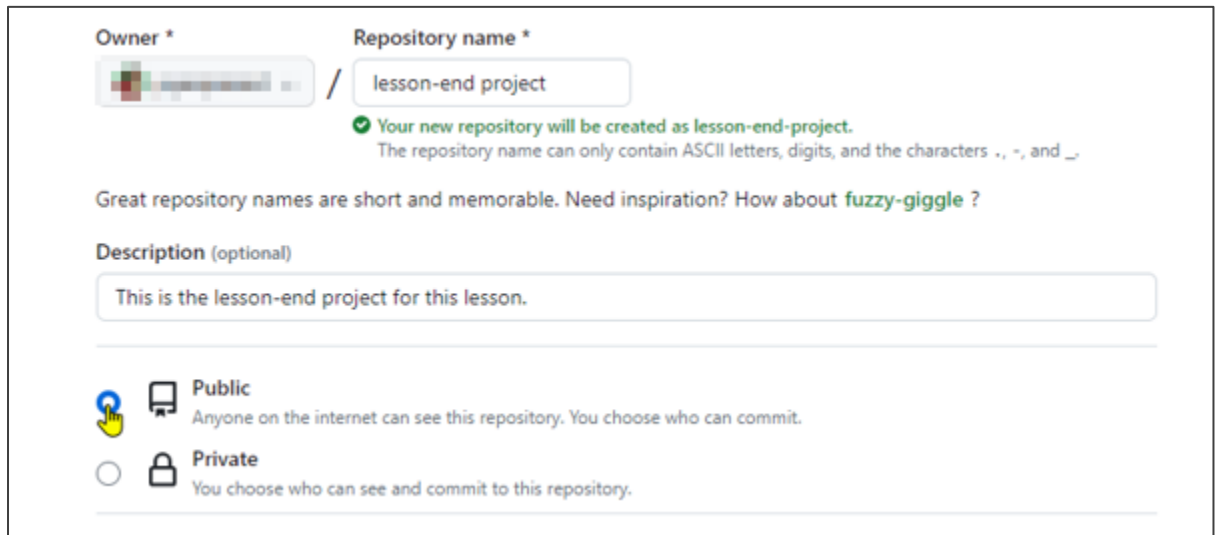
Repository name *

✔ Your new repository will be created as lesson-end-project.
The repository name can only contain ASCII letters, digits, and the characters ., -, and _.

Great repository names are short and memorable. Need inspiration? How about **fuzzy-giggle** ?

Description (optional)

1.4 Choose **Public** for the repository type





Owner * / Repository name * lesson-end project

✓ Your new repository will be created as lesson-end-project.
The repository name can only contain ASCII letters, digits, and the characters -, ., and _.

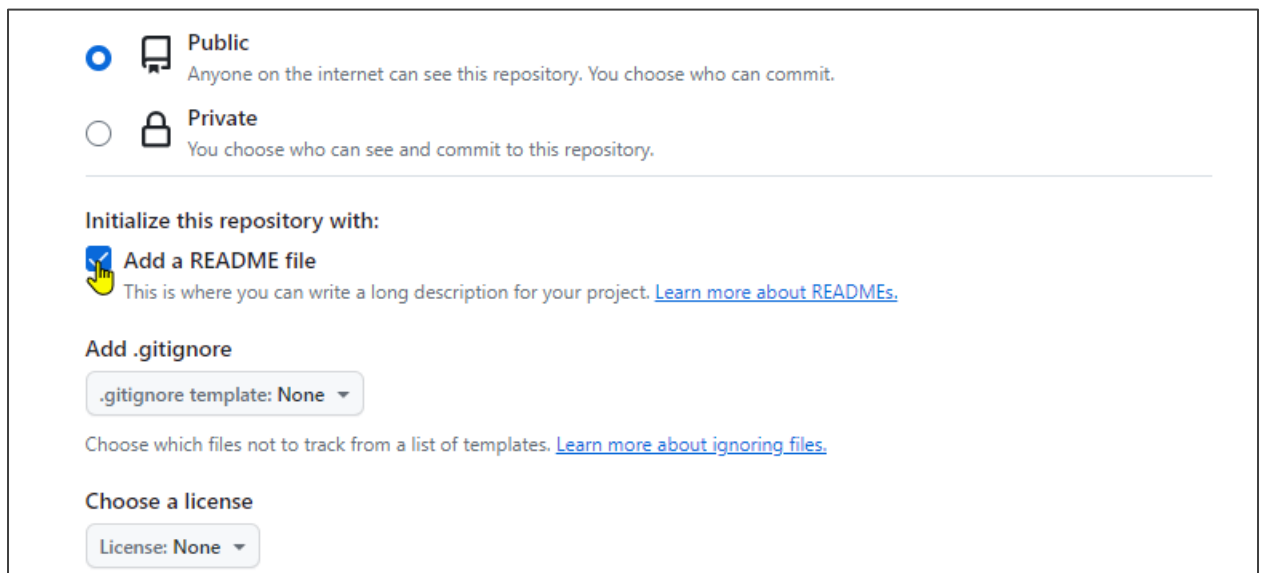
Great repository names are short and memorable. Need inspiration? How about [fuzzy-giggle](#) ?


Description (optional)
This is the lesson-end project for this lesson.


☒  **Public**
Anyone on the internet can see this repository. You choose who can commit.

☐  **Private**
You choose who can see and commit to this repository.


1.5 Select **Initialize this repository with a README** to include a README file for the repository



☒  **Public**
Anyone on the internet can see this repository. You choose who can commit.

☐  **Private**
You choose who can see and commit to this repository.

Initialize this repository with:

☒  **Add a README file**
This is where you can write a long description for your project. [Learn more about READMEs.](#)

Add .gitignore
.gitignore template: None ▾

Choose which files not to track from a list of templates. [Learn more about ignoring files.](#)

Choose a license
License: None ▾

1.6 Click on the **Create repository** button


Initialize this repository with:

☒ **Add a README file**
This is where you can write a long description for your project. [Learn more about READMEs.](#)

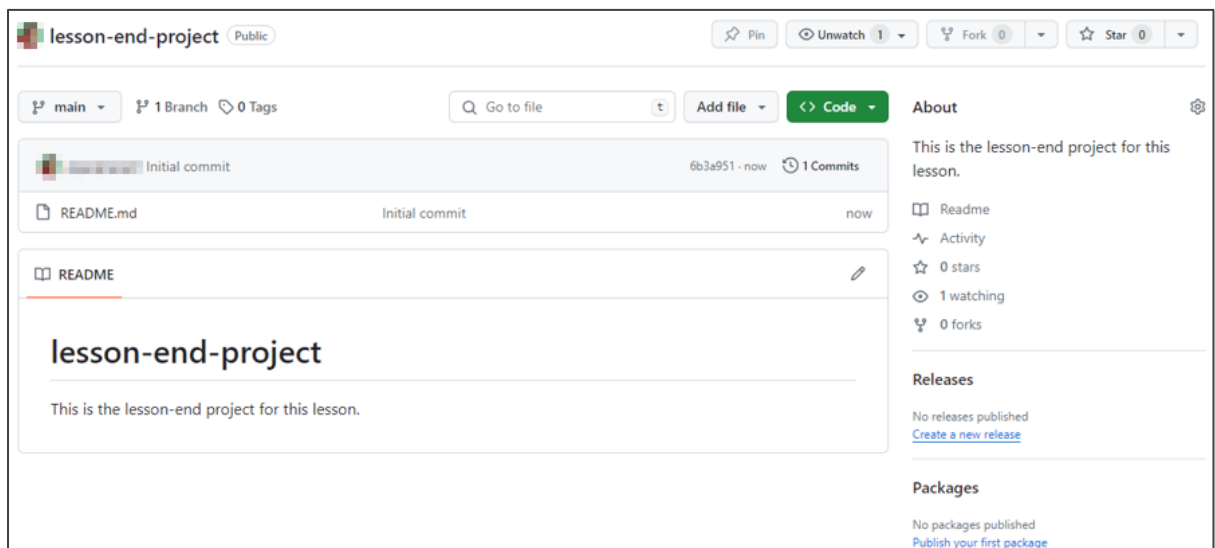
Add .gitignore
.gitignore template: **None** ▾
Choose which files not to track from a list of templates. [Learn more about ignoring files.](#)

Choose a license
License: **None** ▾
A license tells others what they can and can't do with your code. [Learn more about licenses.](#)

This will set **main** as the default branch. Change the default name in your [settings](#).

 You are creating a public repository in your personal account.

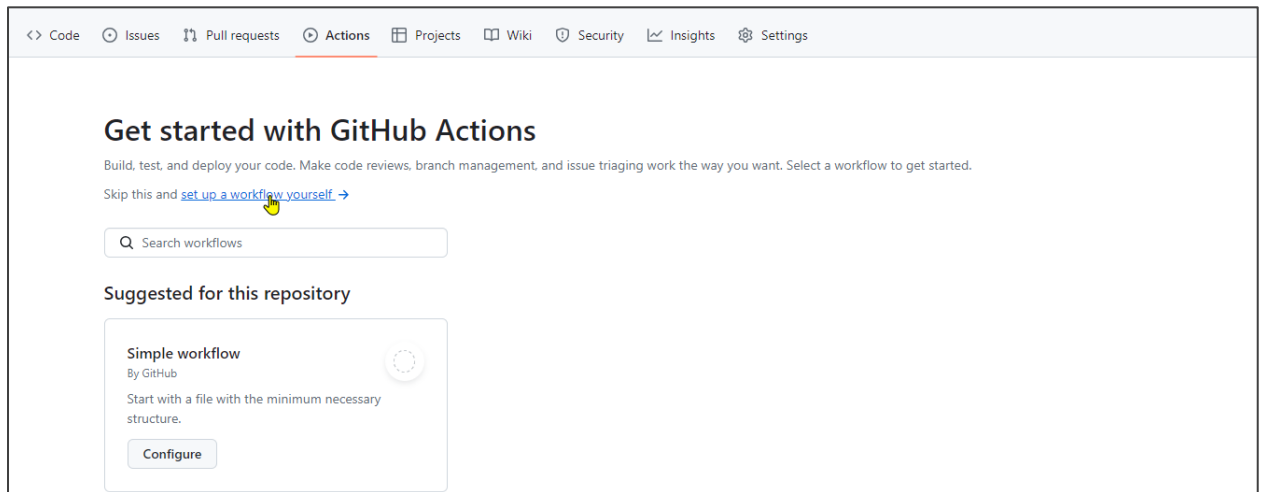
Create repository



The repository is created.

Step 2: Create and execute a new conditional workflow file

2.1 Navigate to the **Actions** tab and click on **set up a workflow yourself** to create a **.github/workflows** directory



2.2 Create a new workflow file **conditional3.yml** with the below code, and then click on **Commit changes**:

name: Conditional Workflow Execution

on:

push:

branches:

- main
- feature/*

jobs:

production-deploy:

if: startsWith(github.ref, 'refs/heads/feature/') || github.ref == 'refs/heads/main'

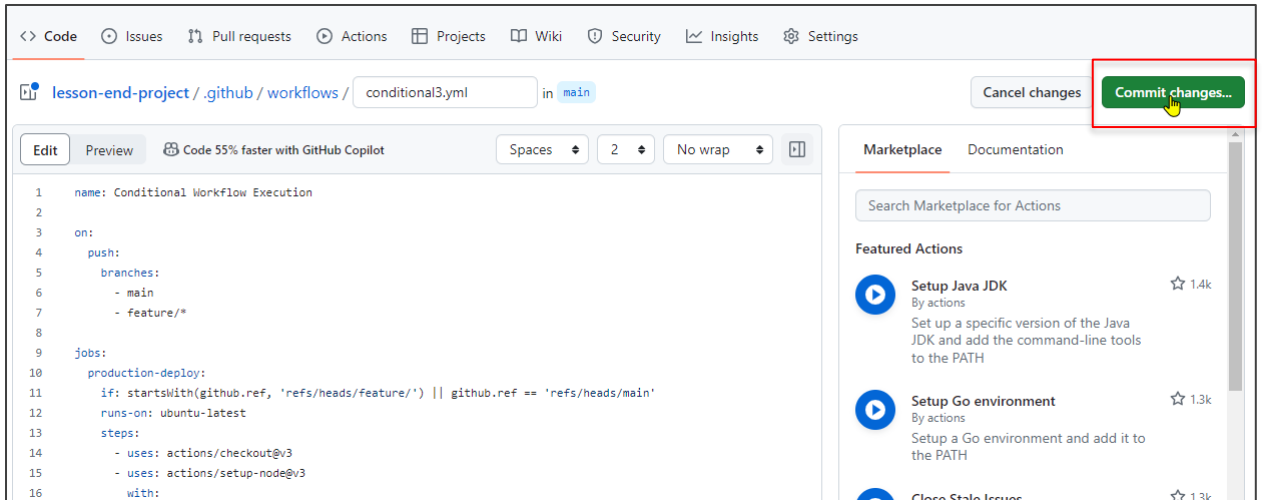
runs-on: ubuntu-latest

steps:

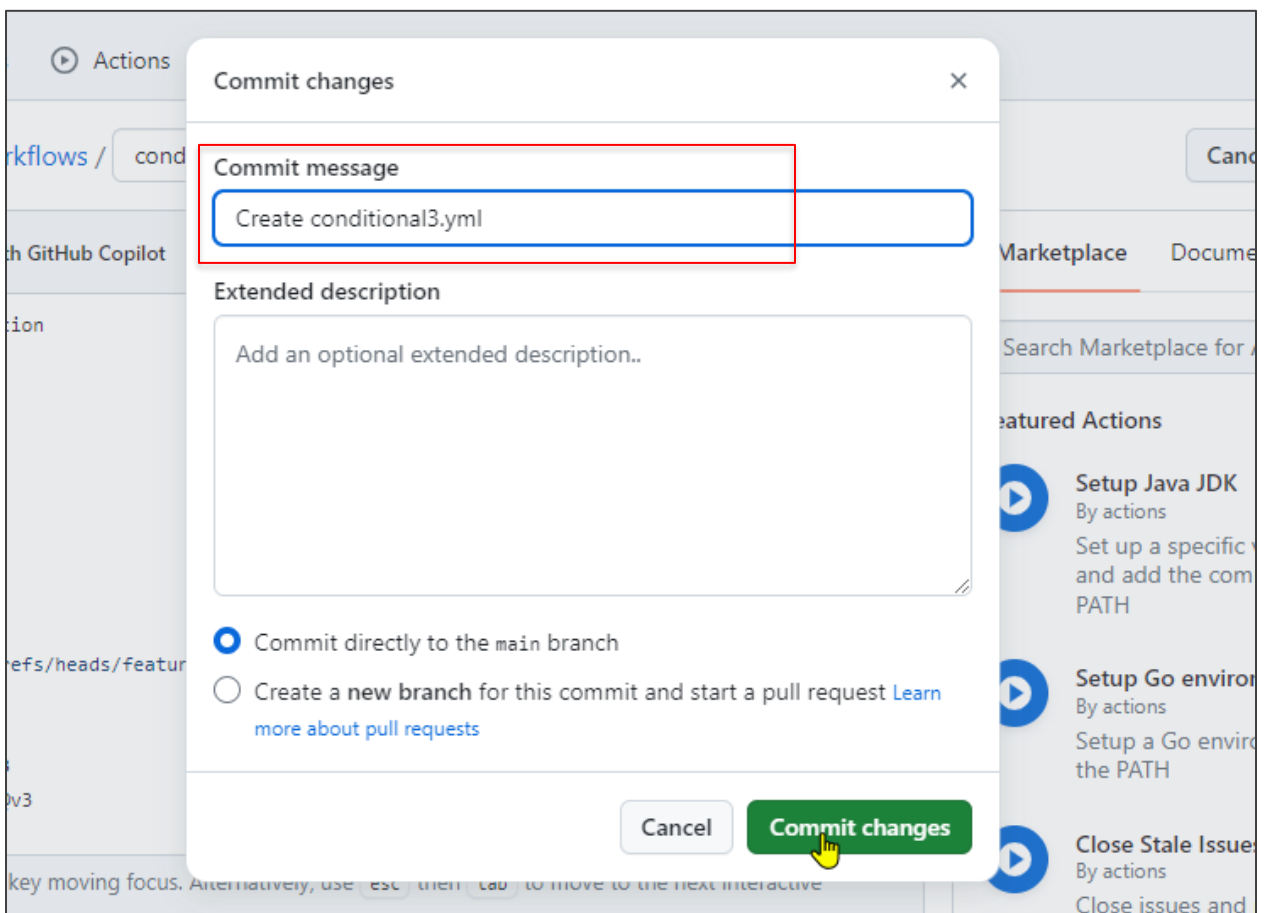
- **uses: actions/checkout@v3**
- **uses: actions/setup-node@v3**

with:

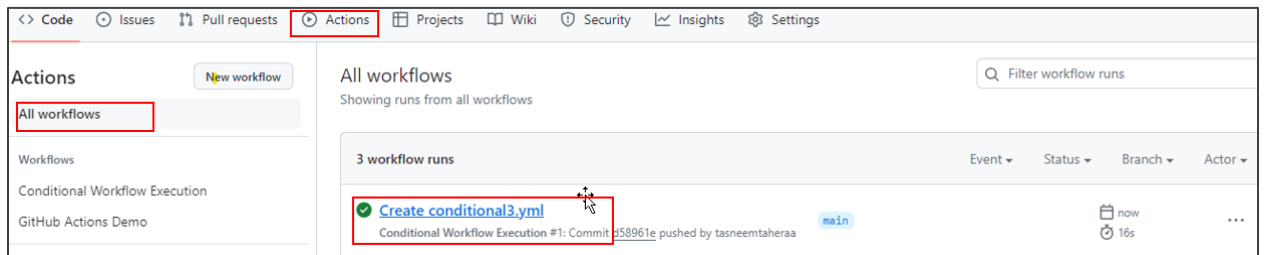
node-version: '14'



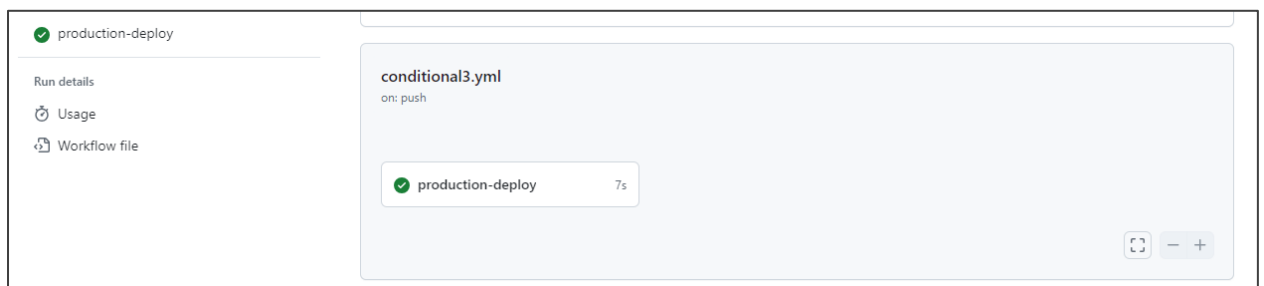
2.3 Add the **Commit message** as **Create conditional3.yml** and click on **Commit changes** to save the workflow file in the code repository



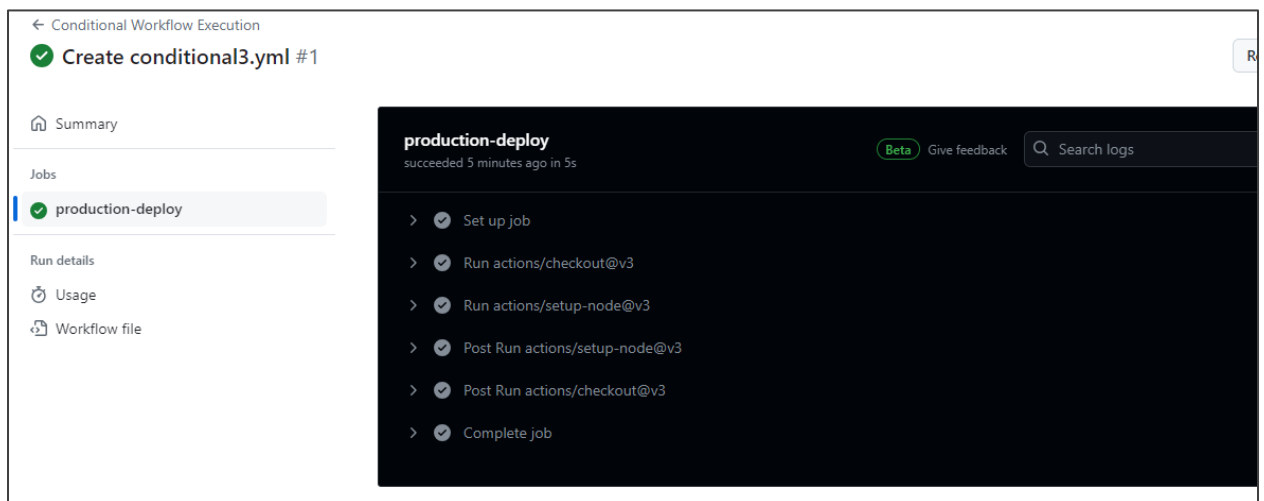
2.4 Navigate to the **Actions** tab in the repository to access the workflow execution and click on the **Create conditional3.yml** workflow



2.5 Click on **production-deploy** to see the output



The following **production-deploy** screen will appear:



2.6 Expand the output under the **production-deploy**

The screenshot shows the GitHub Actions interface for a workflow named 'Create conditional3.yml #1'. The 'production-deploy' job is selected and expanded, showing its logs. The logs indicate that the job succeeded 9 minutes ago in 5s. The workflow steps are as follows:

- Set up job** (1s):
 - 1 Current runner version: '2.315.0'
 - 2 ▶ Operating System
 - 6 ▶ Runner Image
 - 11 ▶ Runner Image Provisioner
 - 13 ▶ GITHUB_TOKEN Permissions
 - 17 Secret source: Actions
 - 18 Prepare workflow directory
 - 19 Prepare all required actions
 - 20 Getting action download info
 - 21 Download action repository 'actions/checkout@v3' (SHA:f43a0e5ff2bd294095638e18286ca9a3d1956744)
 - 22 Download action repository 'actions/setup-node@v3' (SHA:1a4442cacd436585916779262731d5b162bc6ec7)
 - 23 Complete job name: production-deploy
- Run actions/checkout@v3** (8s):
 - 1 ▶ Run actions/checkout@v3
 - 14 Syncing repository: tasneemtaheraa/Lesson-end-project
 - 15 ▶ Getting Git version info
 - 19 Temporarily overriding HOME='/home/runner/work/_temp/643a25a3-6abc-463b-b7d8-6038693195cd' before making global git config changes
 - 20 Adding repository directory to the temporary git global config as a safe directory

By following these steps, you have successfully created the conditional workflow to specify when a particular job or step should run.