Lesson 10 Demo 03

Creating an Event-Based Workflow

Objective: To create an event-based workflow using the GitHub Actions trigger to automatically initiate continuous integration processes whenever new code is pushed to the repository

Tools required: GitHub Actions

Prerequisites: None

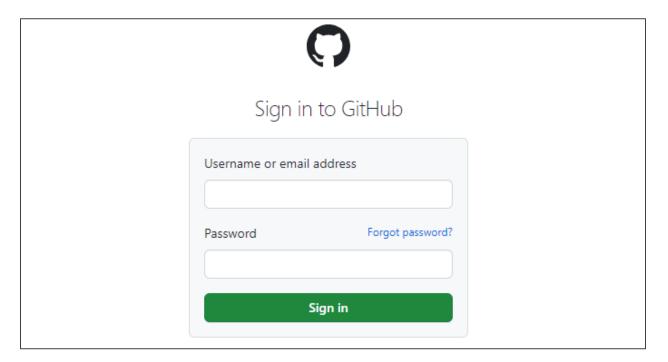
Steps to be followed:

1. Create a new GitHub repository

2. Create and execute a new workflow file using the GitHub Actions trigger

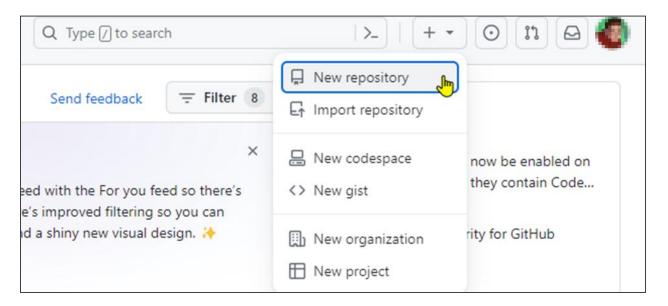
Step 1: Create a new GitHub repository

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

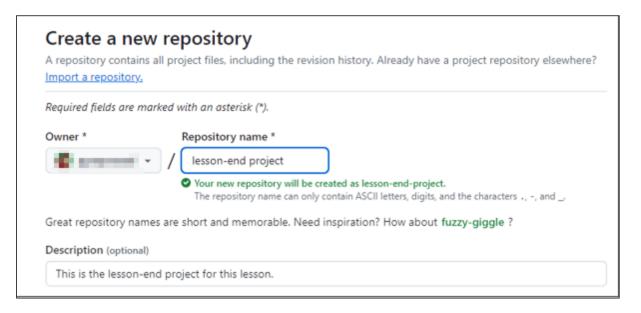


Note: If you do not have a GitHub account, visit the official website at https://github.com/signup and create a new account

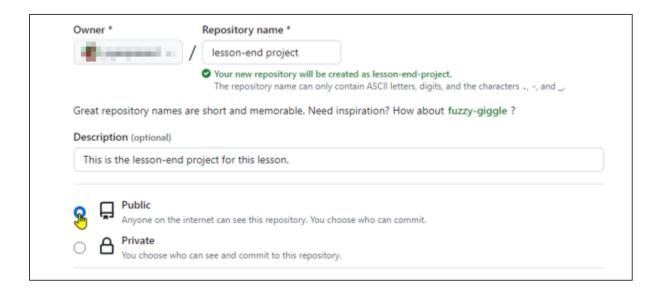
1.2 Click on the + icon from the upper-right corner of the page and select **New repository** from the drop-down menu



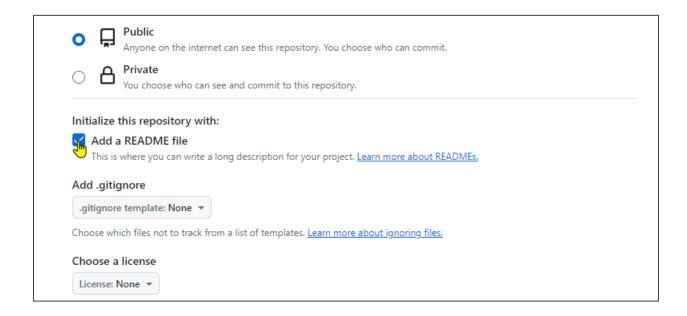
1.3 Enter the name and description of the GitHub repository



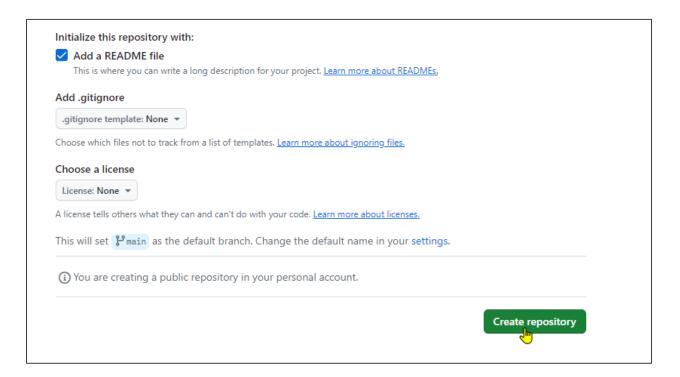
1.4 Choose **Public** for the repository type

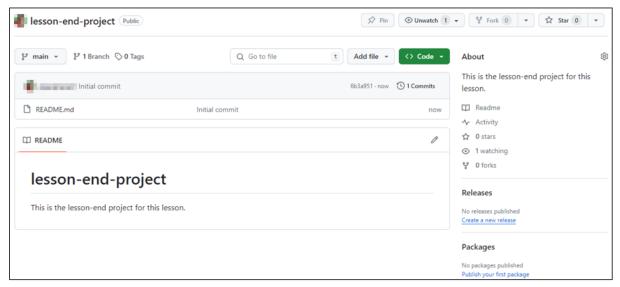


1.5 Select **Add a README file** to include a README file for the repository



1.6 Click on the Create repository button

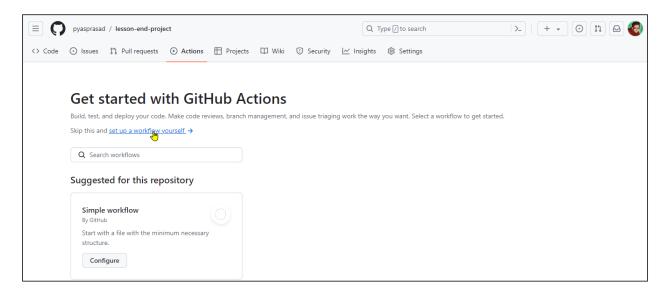




The remote GitHub repository is created.

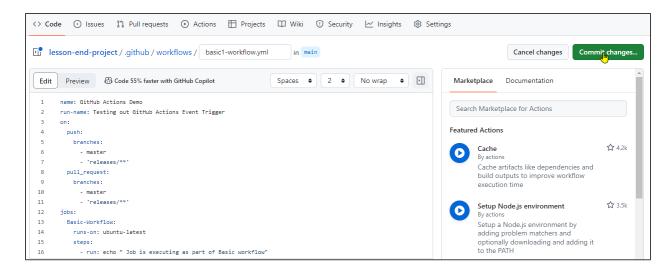
Step 2: Create and execute a new workflow file using the GitHub Actions trigger

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

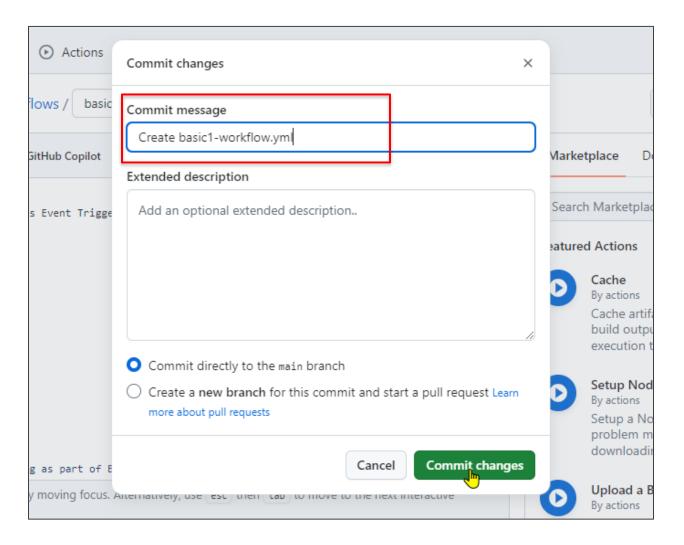


2.2 Create a new workflow file **basic1-workflow.yml** with the below code, and then click on **Commit changes**:

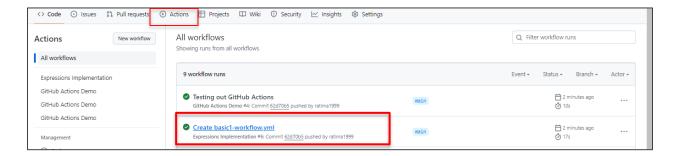
name: GitHub Actions Demo run-name: Testing out GitHub Actions Event Trigger on: push: branches: - master - 'releases/**' pull_request: branches: - master - 'releases/**' jobs: **Basic-Workflow:** runs-on: ubuntu-latest steps: - run: echo " Job is executing as part of Basic workflow"



2.3 Add Commit message as Create basic1-workflow.yml and click on Commit changes to save the workflow file in the code repository



2.4 Navigate to the **Actions** tab, and under **All workflows**, click on the **Create basic1-workflow.yml** workflow to execute the workflow



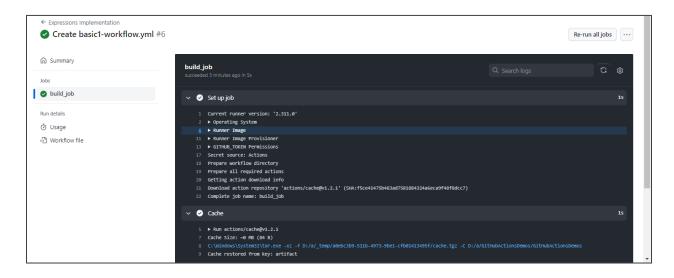
2.5 Click on the **build_job** to see the output

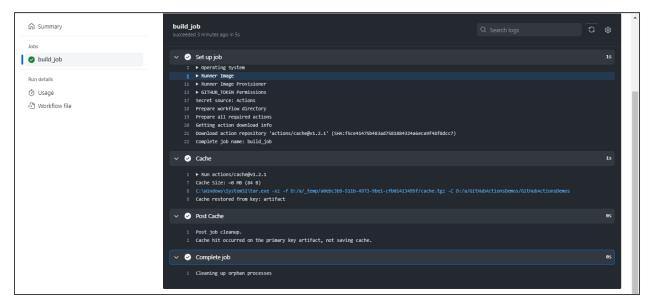


The following **build_job** screen will appear:



2.6 Expand the **output** located under **build_job**





By following these steps, you have successfully created an event-based workflow using the GitHub Actions trigger to automatically initiate continuous integration processes whenever new code is pushed to the repository.