Claude Artifact

Workflow Metadata

name: GitHub Actions Demo

- Purpose: Sets the name of the workflow as it will appear in the GitHub Actions interface
- This name helps identify the specific workflow when reviewing action runs

run-name: ${{ github.actor }} is testing out GitHub Actions 🚀

- Dynamically sets the name of each workflow run
- `github.actor` inserts the username of the person who triggered the workflow
- Adds a rocket emoji for visual flair

on: [push]

- Specifies the event that triggers this workflow
- In this case, the workflow will run automatically whenever code is pushed to the repository
- Supports multiple trigger events if needed (e.g., [push, pull_request])

jobs:

- Defines the collection of jobs to be run in this workflow
- Each workflow must have at least one job

Explore-GitHub-Actions:

- Name of the job (can be customized)
- Represents a single unit of work in the workflow

runs-on: ubuntu-latest

- Specifies the type of machine to run the job
- Uses the latest Ubuntu Linux runner hosted by GitHub
- Provides a clean, consistent environment for executing workflow steps

steps:

- Lists individual tasks to be executed in sequential order
- Each step can be a shell command or an action from the GitHub Marketplace

First Echo Step:

- `run: echo "🎉 The job was automatically triggered by a ${{ github.event_name }} event."`
- Prints a message with an emoji
- `github.event_name` dynamically shows what triggered the workflow (e.g., "push")

Second Echo Step:

- `run: echo "🐧 This job is now running on a ${{ runner.os }} server hosted by GitHub!"`
- Displays the operating system of the runner
- Uses `runner.os` to dynamically show the OS (e.g., "Linux")

Third Echo Step:

- `run: echo "🔎 The name of your branch is ${{ github.ref }} and your repository is ${{ github.repository }}."`
- Prints the current branch name and full repository name
- Uses `github.ref` and `github.repository` context variables

Check out repository code:

```yaml
```

```
- name: Check out repository code
  uses: actions/checkout@v4
```

- Uses the official GitHub Actions checkout action
- Clones the repository code to the runner
- `@v4` specifies version 4 of the action

Subsequent Echo Steps:

- Provide informational messages about the workflow's progress
- Use various GitHub context variables to provide dynamic information

List files step:

```yaml
```

```
- name: List files in the repository
  run: |
    ls ${{ github.workspace }}
```

- Uses the `ls` command to list files
- `github.workspace` is the path to the repository's root directory
- The `|` allows for multi-line shell commands

Final Status Echo:

- `run: echo "🍏 This job's status is ${{ job.status }}.""`
- Prints the current status of the job
- `job.status` will show "success" or "failure"

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