

GitHub Actions Workflow Documentation Sample

This document provides an example of a GitHub Actions workflow, describing its purpose, structure, and key sections.

Overview

GitHub Actions enables you to automate, customize, and execute your software development workflows right in your GitHub repository. A workflow describes the automation process as a YAML file.

Sample Workflow File

Below is a sample workflow file named `.github/workflows/ci.yml`:

```
name: CI
on:
  push:
    branches: [ "main" ]
  pull_request:
    branches: [ "main" ]
jobs:
  build:
    runs-on: ubuntu-latest
    steps:
      - name: Checkout repository
        uses: actions/checkout@v4
      - name: Set up Node.js
        uses: actions/setup-node@v4
        with:
          node-version: '18'
      - name: Install dependencies
        run: npm install
      - name: Run tests
        run: npm test
```

Key Sections

- **name**: The name of the workflow as it will appear in GitHub Actions.
- **on**: Events that trigger the workflow, such as `push` and `pull_request` to the `main` branch.
- **jobs**: A mapping of all jobs that will run as part of the workflow.
- **runs-on**: Specifies the type of runner to use. In this example, `ubuntu-latest`.
- **steps**: A list of actions or shell commands to execute.
- **uses**: Indicates reusable actions from the GitHub Actions marketplace.
- **run**: Runs a command-line script.

Further Reading

- GitHub Actions documentation

