# Github Actions

Automate developers workflows

CI/CD tool $\rightarrow$ is one of many workflows

## Workflows:-

① Adding new contributors

② pull request creation

③ Organizational tasks

issue tracker
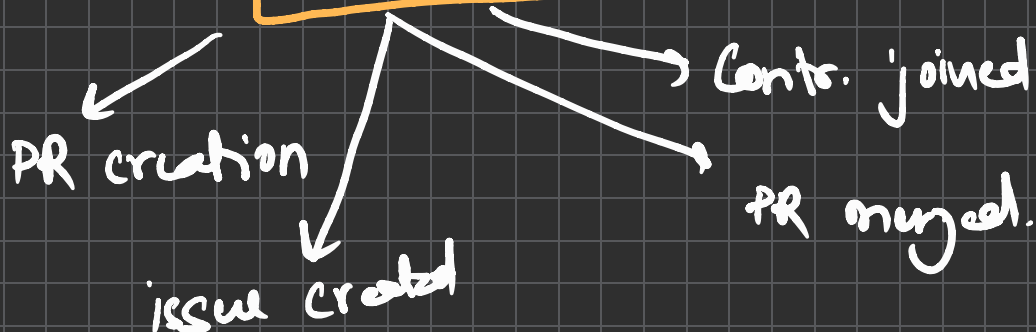
pull revent approving

CI/CD pipeline
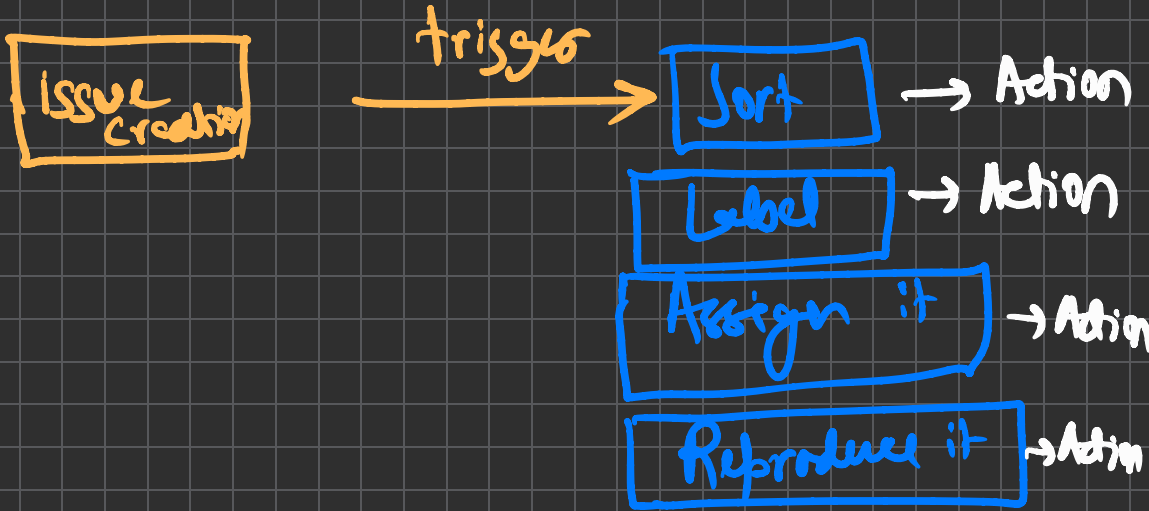
How Github Actions automate this workflows?

① when something happens IN or TO the repository

② Automatic actions are executed in Response to it

Something that happens to the repository is called Github Events such as

PR creation
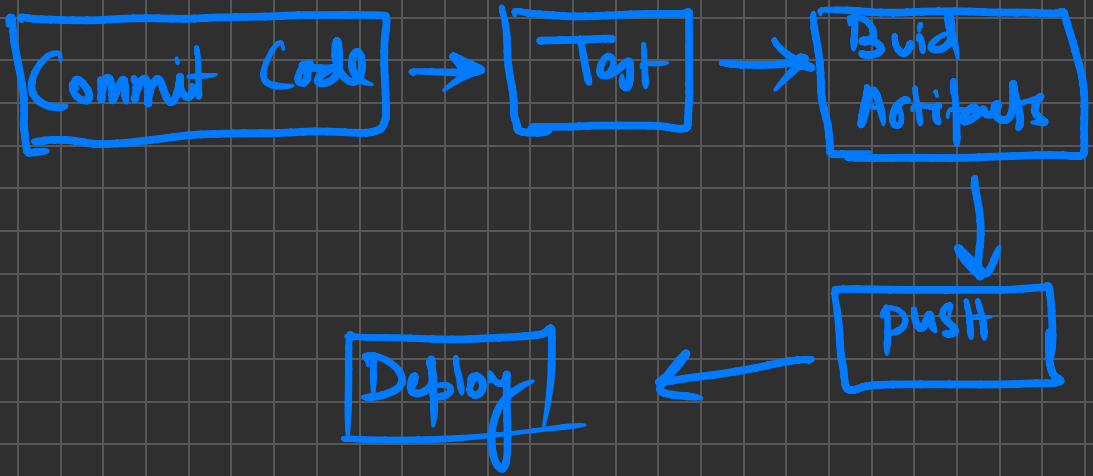
issue created

Contr. joined

PR merged.

We listen for such events to happen and in response to that events, we might choose to trigger a workflow.

trigger

Issue Creation → Sort → Action

Label → Action

Assign it → Action

Reproduce it → Action

# Workflow with Github CI/CD Actions:

```
[Commit Code] → [Test] → [Build Artifacts]
                                    ↓
[Deploy] ← [push]
```

In an organization there could be
multiple apps built on different language

We can have a go app that would be
hosted in the digital ocean cloud and
also a java project hoisted on Aws
I cannot simply speed my time
installing the plugins, configuring them
with Github Actions, I simply say that
I need an environment with GO and
docker available, with the version I
about, and during deployment Simply
connect to target & deploy.