Devops Workflow

lesson #dev01

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Lesson Goals

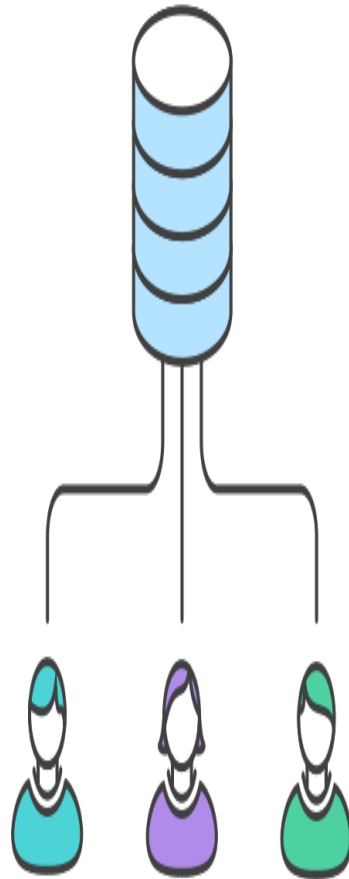This short lesson introduces some project workflow techniques.

Atlassian has some great tutorials, and I am using some of their images here.

Github itself has some handy guides, on the GitHub Flow, for instance, and on forking projects.

Centralized Workflow

With a centralized workflow, all the developers on a project share a central repository.

They clone the repository locally, but they all publish changes to the shared repository.
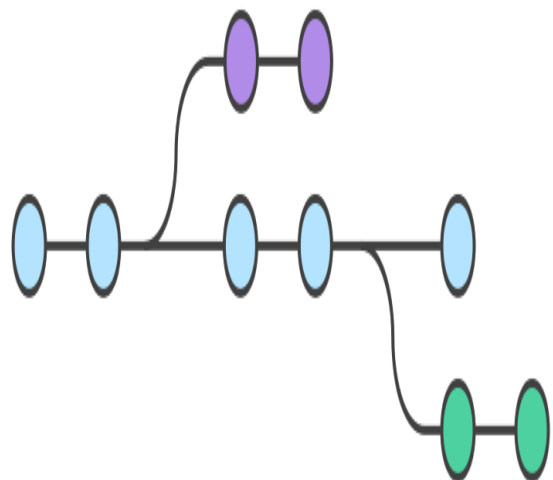
Branching Workflow

Following a branching workflow means that all feature development takes place in dedicated branches, other than "master".

Once a feature is complete, its branch would then be merged into the "master" branch.

Fixing an issue is considered a mini-feature, and would be handled in its own (short-lived) branch.
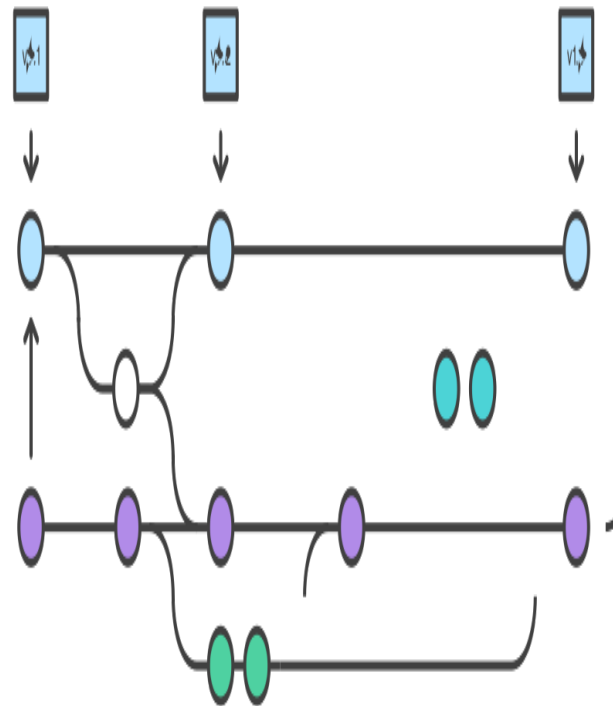
Gitflow Workflow

Gitflow workflow is a strict branching model convention.

You have two main branches, "master" and "develop". The "master" branch is always release-ready, and is usually tagged with a release version number.

All development is done on the "develop" branch, which is merged into the "master" branch to form a new release.
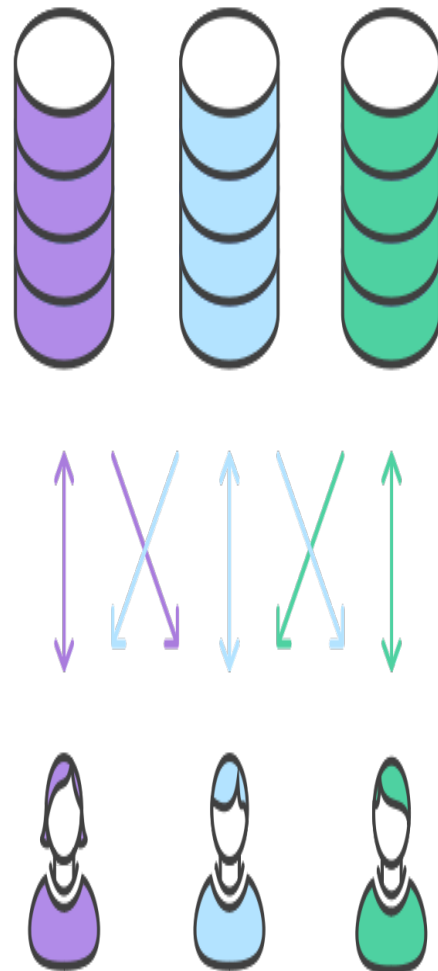
Forking Workflow

With the forking workflow, there is a main repository, and each developer "forks" it to make their own server-side repository, which is then cloned locally.
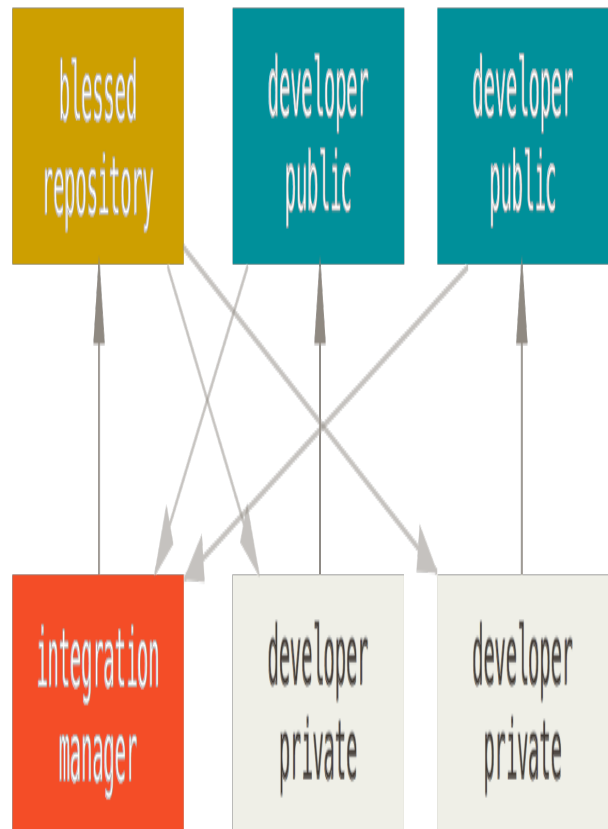
Developers push code changes to their own repository, and trigger a pull request when they are ready to merge their changes into the official repository.

Only the maintainer of the official repository can update it.

Github Workflow

1. Fork a github project
2. Clone your fork locally
3. Create a topic branch
4. Commit changes to your branch
5. Push your changes to your fork
6. Send a pull request to the original project

Congratulations!

You have completed lesson #dev01: Devops Workflow

If you would take a minute to provide some feedback, we would appreciate it!

The next activity in sequence is: faq F.A.Q.

You can use your browser's back button to return to the page you were on before starting this activity, or you can jump directly to the course homepage, organizer, or reference page.