GitHub Repo, Template, Apps & Branch Policy

34

GitHub Concepts
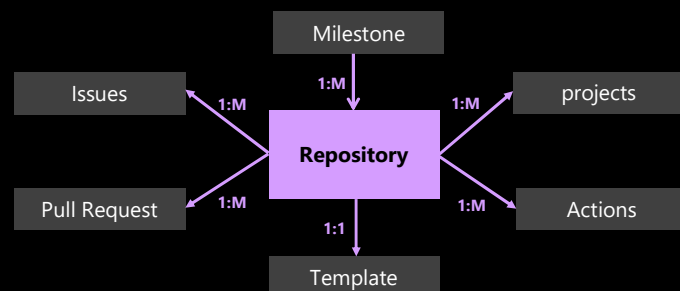
What is Repository

A repository is similar to a folder and a GitHub repository becomes **a folder that is available online** on the cloud for the people to download, access, and contribute. This folder contains the code files of the project which can now be used by other people.

GitHub was introduced to share the repository with other people who are interested in something that the user is doing or **contribute to the repository** on which the user himself is interested. **GitHub repository helps to connect people**. A GitHub repository plays a vital role among the developers to develop something easy and make it available to the whole world.

You can customize access to each repository in your organization with granular permission levels. The levels are **read, triage, write, maintain and admin**.

- Repository
- Issues
- Pull Request
- Label
- Template
- Project
- Milestone
- Action

Milestone → 1:M → Repository
Issues → 1:M → Repository
Repository → 1:M → projects
Pull Request → 1:M → Repository
Repository → 1:M → Actions
Repository → 1:1 → Template

35

35

1

GitHub Repositories : Visibility

Public

Internal

Private

36

GitHub Concepts

What is Template

1) **Repository Template**: you can generate a new repository with the same directory structure and files as an existing repository.
2) **Issue Template**: You can customize the templates that are available for contributors to use when they open new issues in your repository.
3) **Pull Request Template**: When you add a pull request template to your repository, project contributors will automatically see the template's contents in the pull request body.
4) **Project board templates**: There are a list of templates available for selection: None, Basic Kanban, Automated Kanban, Automated Kanban with review, Bug triage.

Repository	Issues
Pull Request	Label
Template	Project
Milestone	Action

Issue

1:1

Repository → 1:1 → **Template** ← 1:1 ← Pull Request

1:1

Project Board
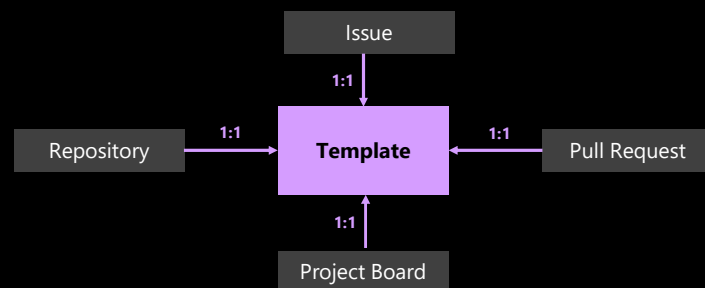
37

Benefits of Repository Template

- Spend less time repeating code
- Focus on building new things
- Less manual configuration
- Sharing boilerplate code across the code base

38