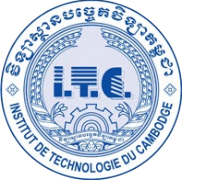


Programming Env

GitHub project

Leveraging Issues & Milestones for Efficient Development



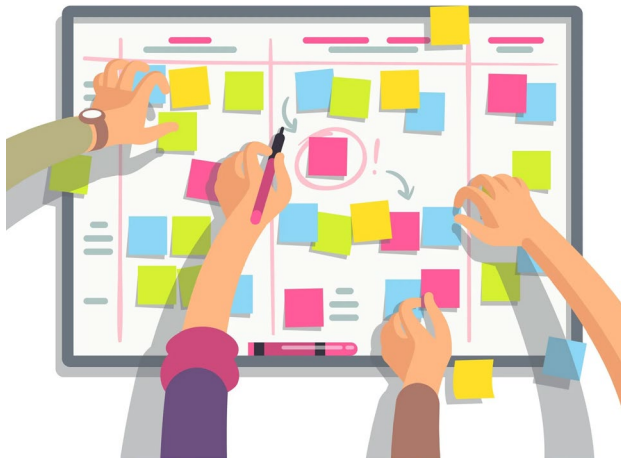
Outlines

- GitHub as a Project Management Tool
- What Are GitHub Issues?
- Example: List of Issues
- Using Labels & Templates
- What Are Milestones?
- Example: Milestones in Action
- Planning Workflow



GitHub as a Project Management Tool

- Source control + collaboration
- Planning through Issues & Milestones
- Integration with Projects, Actions, Discussions



Planning

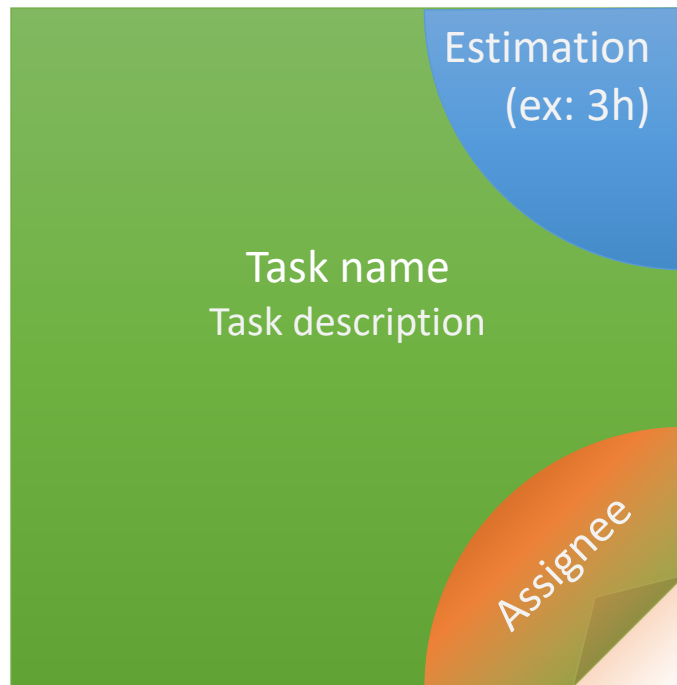


Collaboration



What Are GitHub Issues?

- Tasks, enhancements, bugs, documentation needs
- Include labels, assignees, and checklists
- Support discussions & references to code/commits





Example: List of Issues

- Title
- Labels (e.g., bug, feature, enhancement)
- Assignee
- Status (open/closed)

bug	Something isn't working
documentation	Improvements or additions to documentation
duplicate	This issue or pull request already exists
enhancement	New feature or request
good first issue	Good for newcomers
help wanted	Extra attention is needed
invalid	This doesn't seem right
question	Further information is requested
wontfix	This will not be worked on



Using Labels & Templates

- **Labels categorize issues:** bug, help wanted, documentation
- Issue [templates](#) streamline reporting

The image shows a user interface for selecting an issue template. At the top is a button labeled "Add template: select" with a downward arrow. Below this button is a dropdown menu with three visible options, each separated by a horizontal dashed line. The first option is "Bug report" with the subtitle "Standard bug report template". The second option is "Feature request" with the subtitle "Standard feature request template". The third option is "Custom template" with the subtitle "Blank template for other issue types".

Template Name	Description
Bug report	Standard bug report template
Feature request	Standard feature request template
Custom template	Blank template for other issue types



What Are Milestones?

- Group issues around a common goal or release
- Add due dates to track progress
- Used for sprints, versions, or phases

Create milestone

Create a new milestone to help organize your issues and pull requests. Learn more about [milestones and issues](#).

Title

Due date (optional)

Description (optional)

Cancel

Create milestone



Example: Milestones in Action

- Show % complete (open vs closed issues)
- Example milestone: v1.0 Launch

🏷 Labels

📌 Milestones

New milestone

📌 2 Open ✓ 1 Closed

Sort ▼

beta release

No due date ⌚ Last updated 3 days ago

50% complete

1 open

1 closed

Edit

Close

Delete



Planning Workflow

- Create milestone (e.g., Sprint 1)
- Break work into issues
- Prioritize and label issues
- Assign team members
- Track progress



Benefits of This Approach

- Clear roadmap and accountability
- Better collaboration and visibility
- Easier tracking and retrospectives



Post-test: Q1

- What is the primary purpose of GitHub Issues in project management?
 - A. To store code backups
 - B. To track individual tasks, bugs, or enhancements
 - C. To generate project documentation
 - D. To assign user roles



Post-test: Q2

- Which of the following best describes GitHub Milestones?
 - A. A way to merge multiple repositories
 - B. A tool for real-time code editing
 - C. A grouping of issues around a specific goal or release
 - D. A feature used to deploy applications to production



Post-test: Q3

- What happens when a pull request includes a phrase like “Fixes #45”?
 - A. It renames the issue to match the pull request
 - B. It deletes the referenced issue
 - C. It automatically closes the issue when the pull request is merged
 - D. It creates a duplicate issue for testing