

Tutorial of GitHub Boards

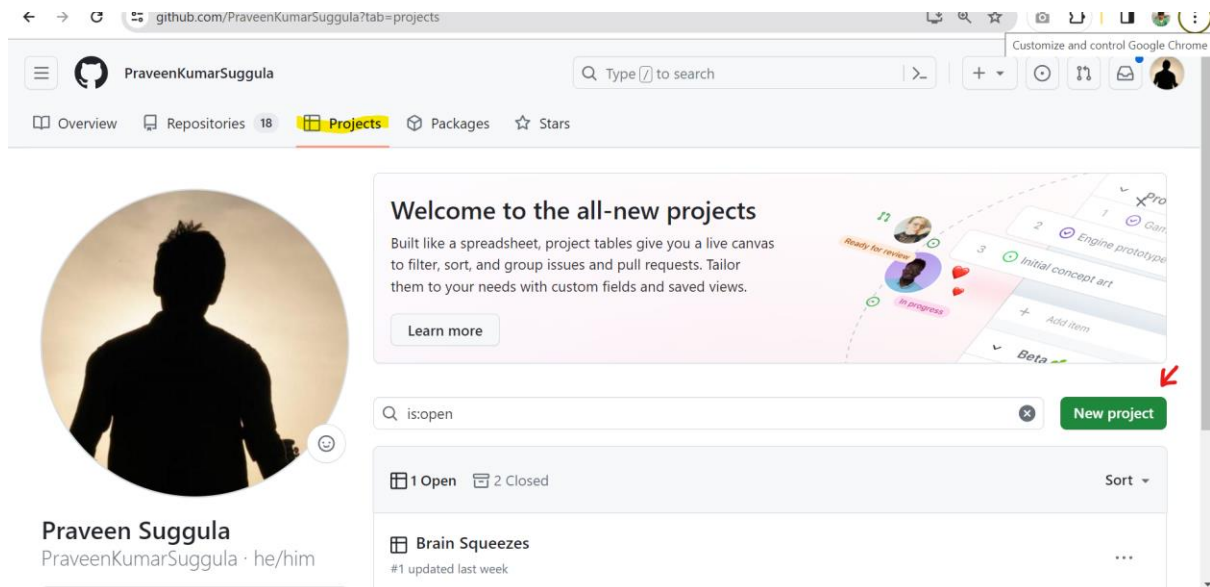
Prepared by: Praveen Kumar Suggula

GitHub Boards are used to organize and prioritize your project work using scrum methodologies. In this documentation, I covered the fundamentals required for software engineering project.

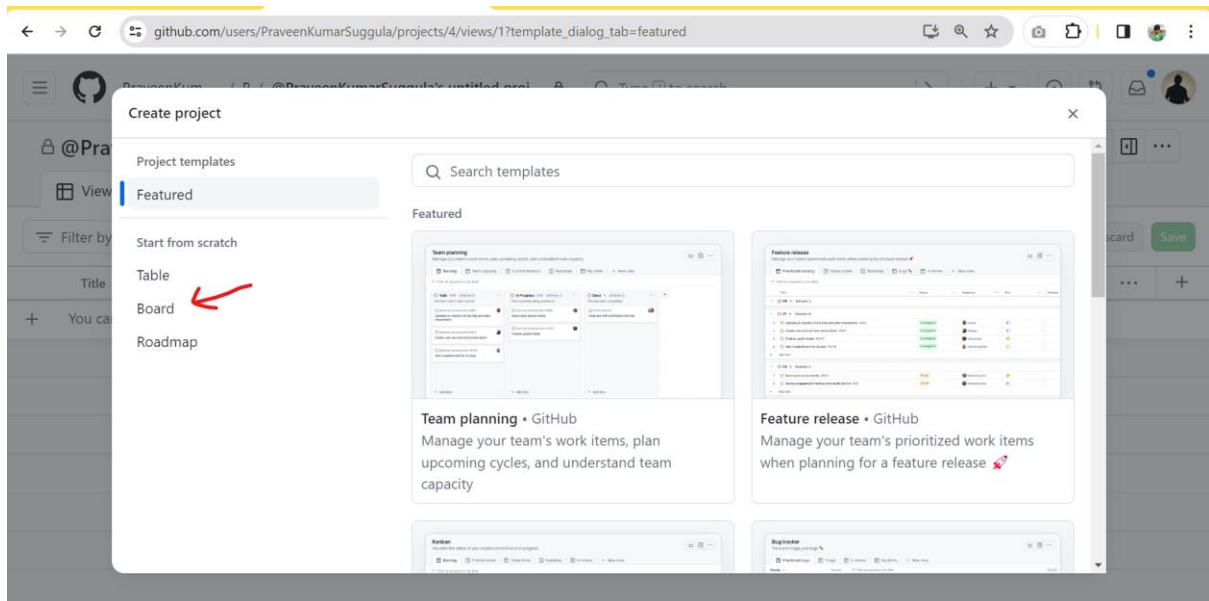
Steps to initialize and use GitHub Boards:

To Create New Project Board:

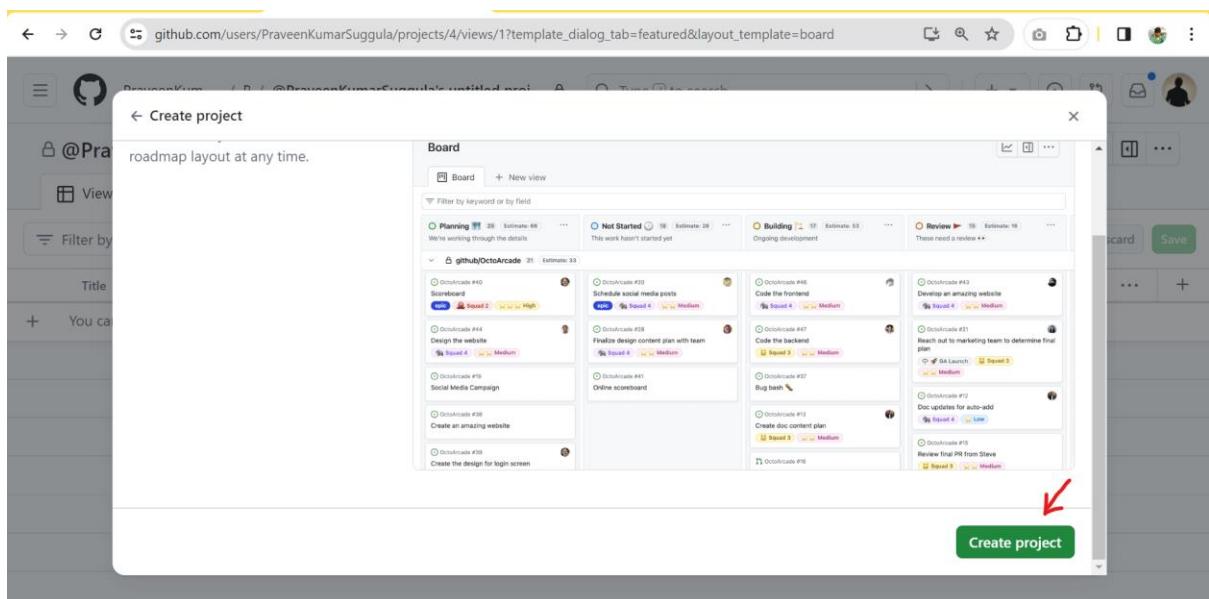
1. Goto GitHub -> Projects -> New Project ->



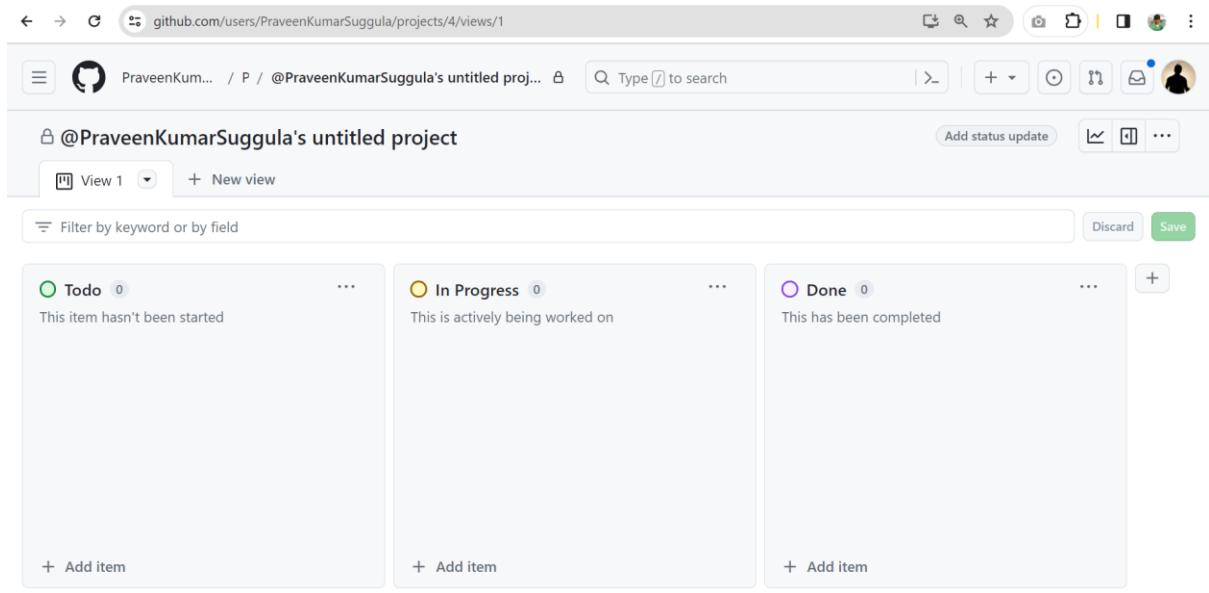
Select Boards ->



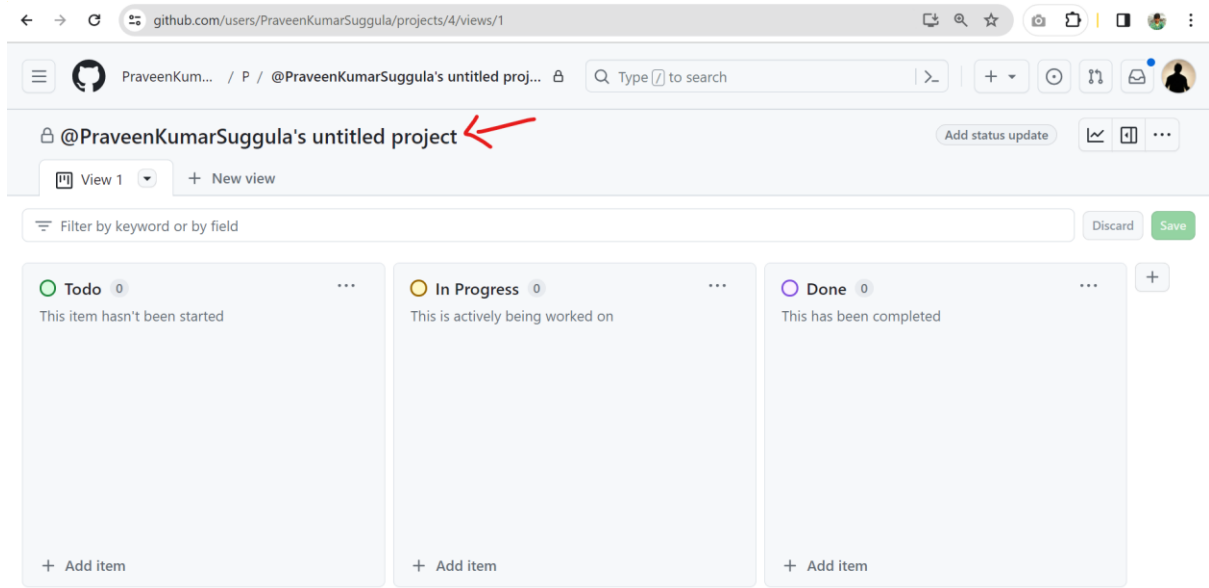
Create project ->



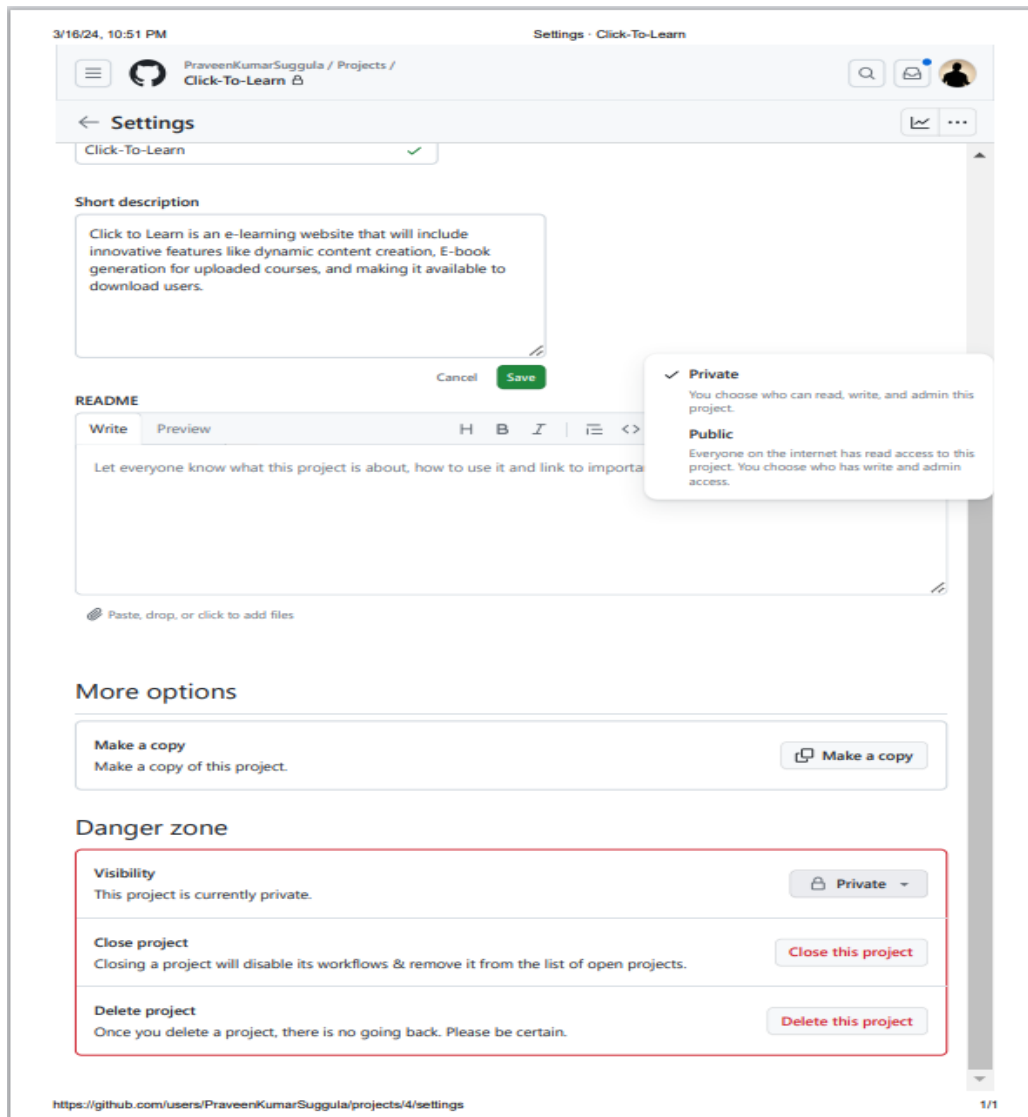
Default board will look like this,



Click on untitled to modify the title and update its privacy settings like we shown below

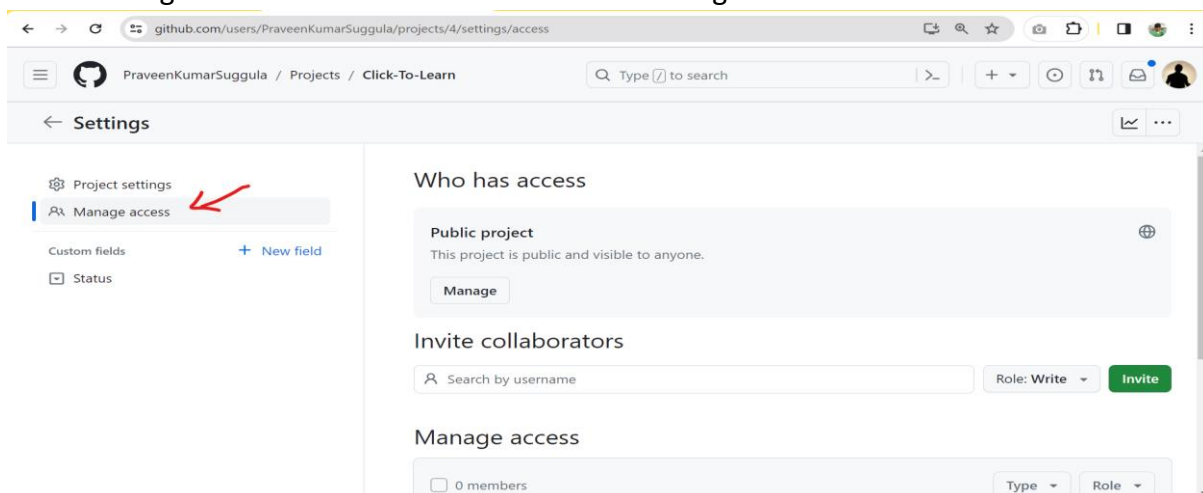


Provide meaningful title, description and change visibility to **public (preferable)**.

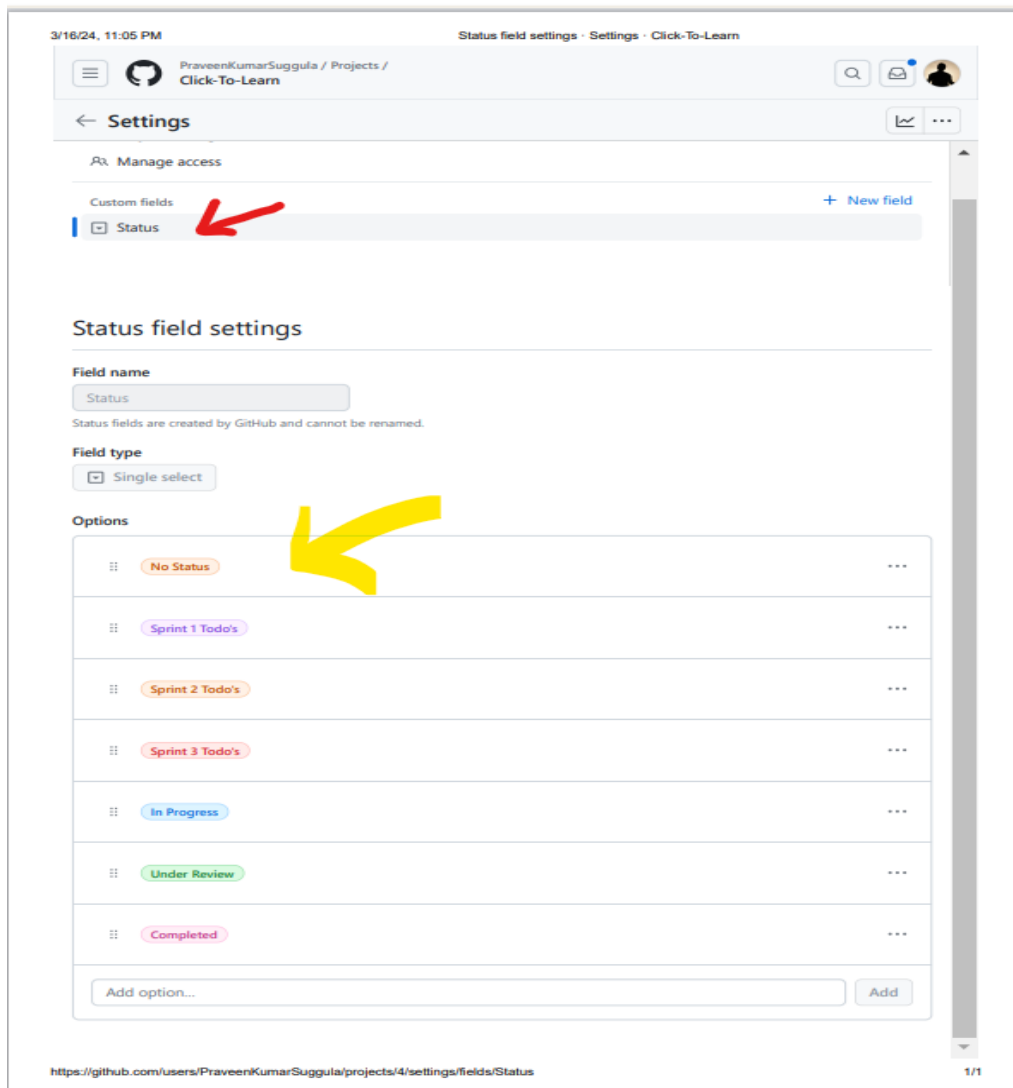


To provide access to your team members or project collaborators,

Goto 'manage access' and invite collaborators and assign **write** access.

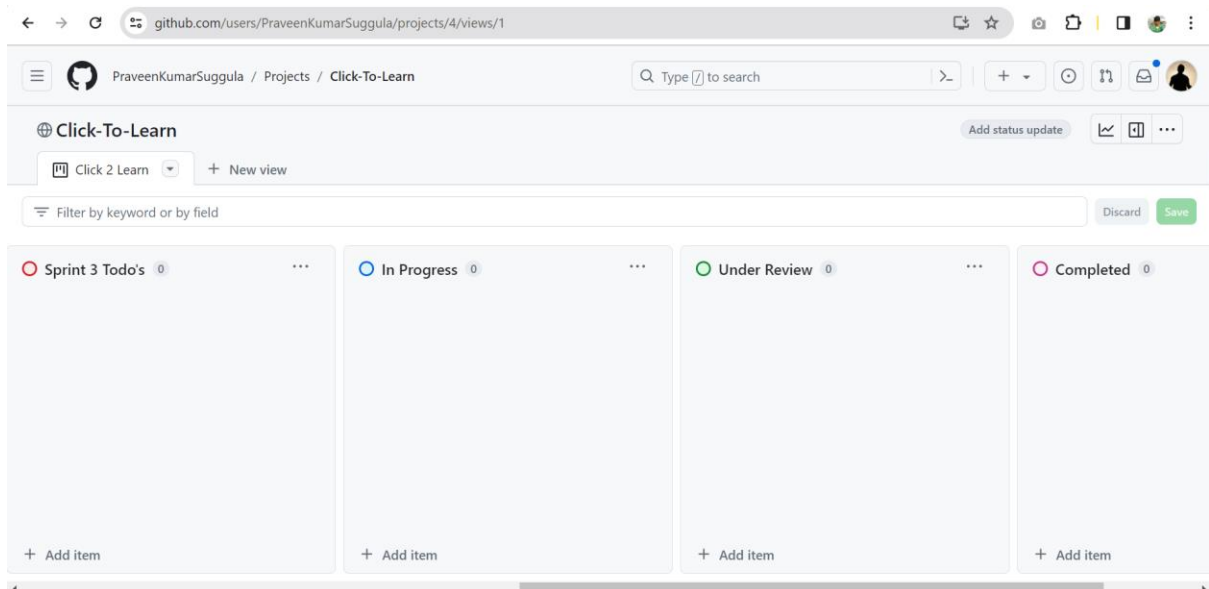
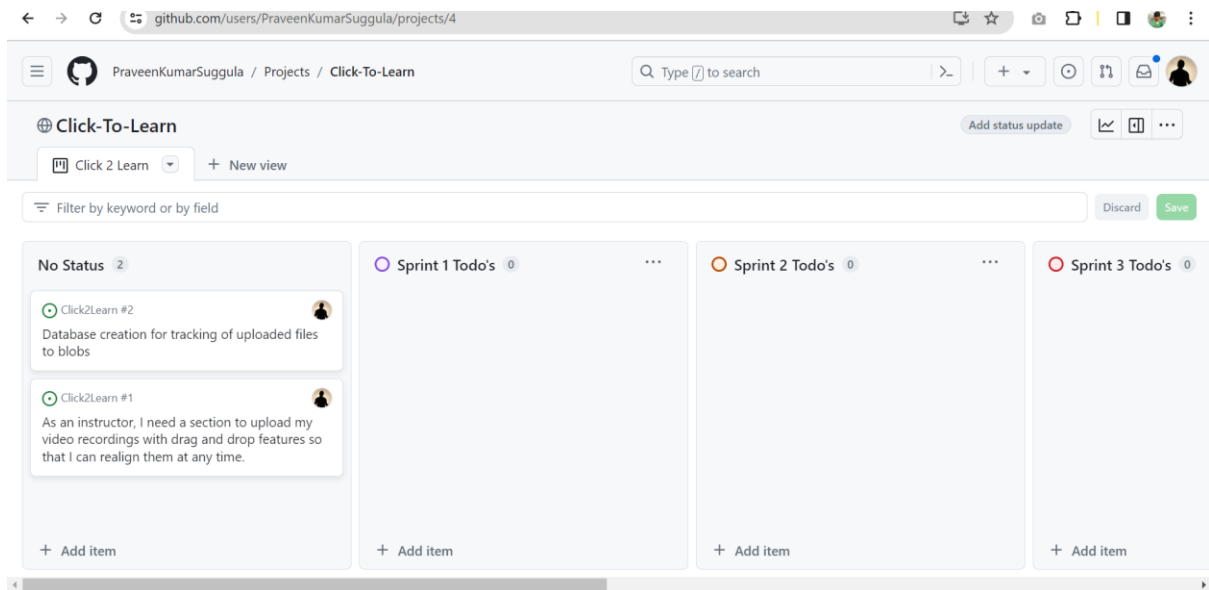


Goto Status Section and modify the fields which will displays in project boards. I suggest this below approach to organize items **for this course work**.



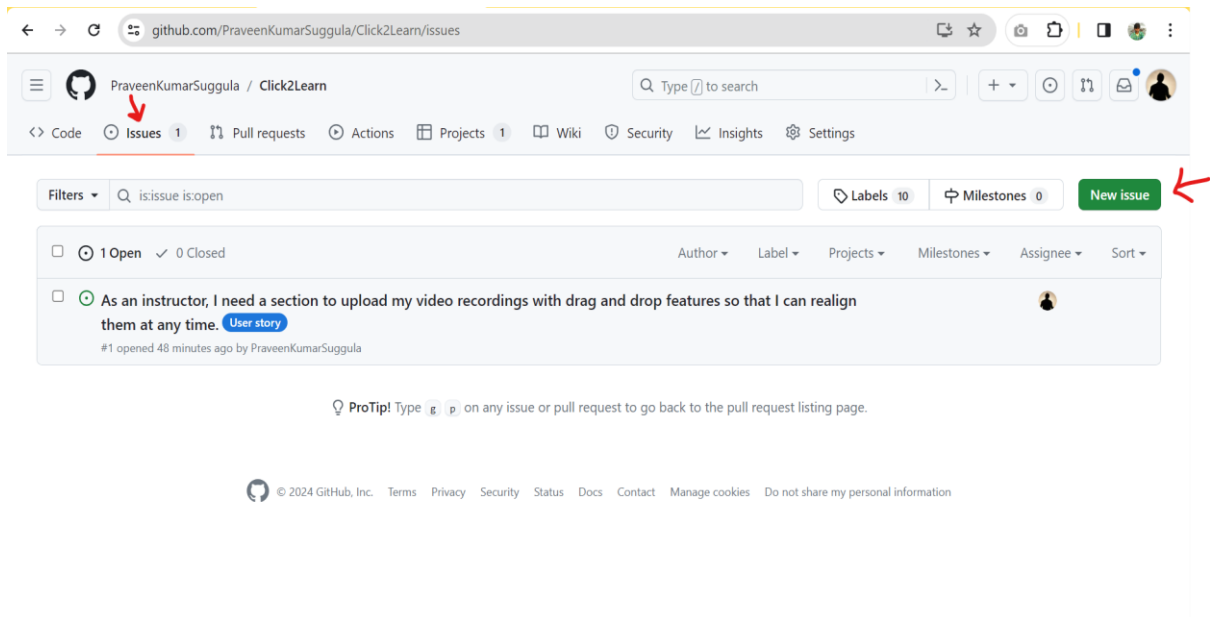
No Status	Its auto created by default. Newly created and unassigned work items are under this section. (backlogs)
Sprint 1 Todo's	Maintain pulled and pending work items in sprint 1.
Sprint 2 Todo's	Maintain pulled and pending work items in sprint 2.
Sprint 3 Todo's	Maintain pulled and pending work items in sprint 3.
In Progress	All currently working sprint items.
Under Review	Work completed but not merged to main branch because of pull/merge request is under review by lead/scrum master.
Completed	All implemented work items are in this completed section.

Note: For better readability, your team can add 3 completed statuses similar to sprint Todo's like Completed S1, Completed S2, Completed S3.

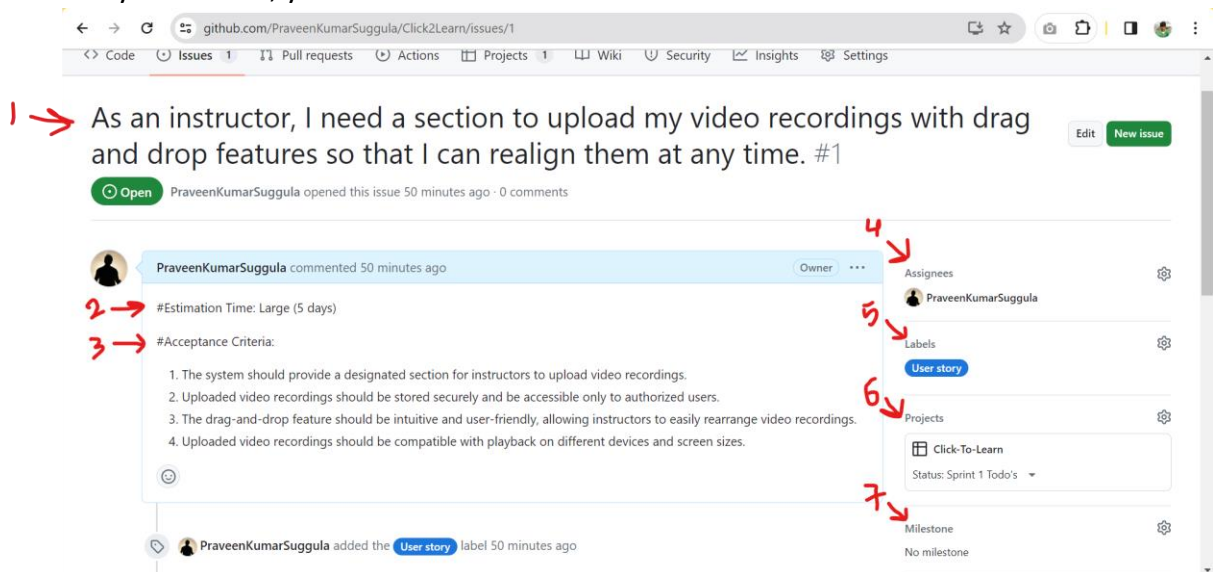


To create new work item:

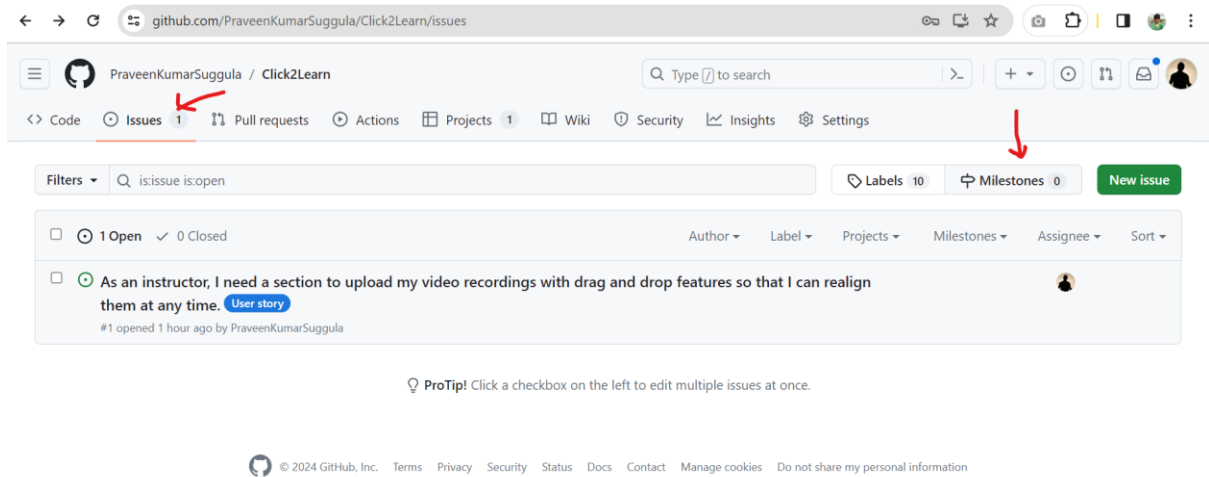
Open your project repository → Issues → new issue →



For every work item, you need to include total 7 sections which mentioned below:

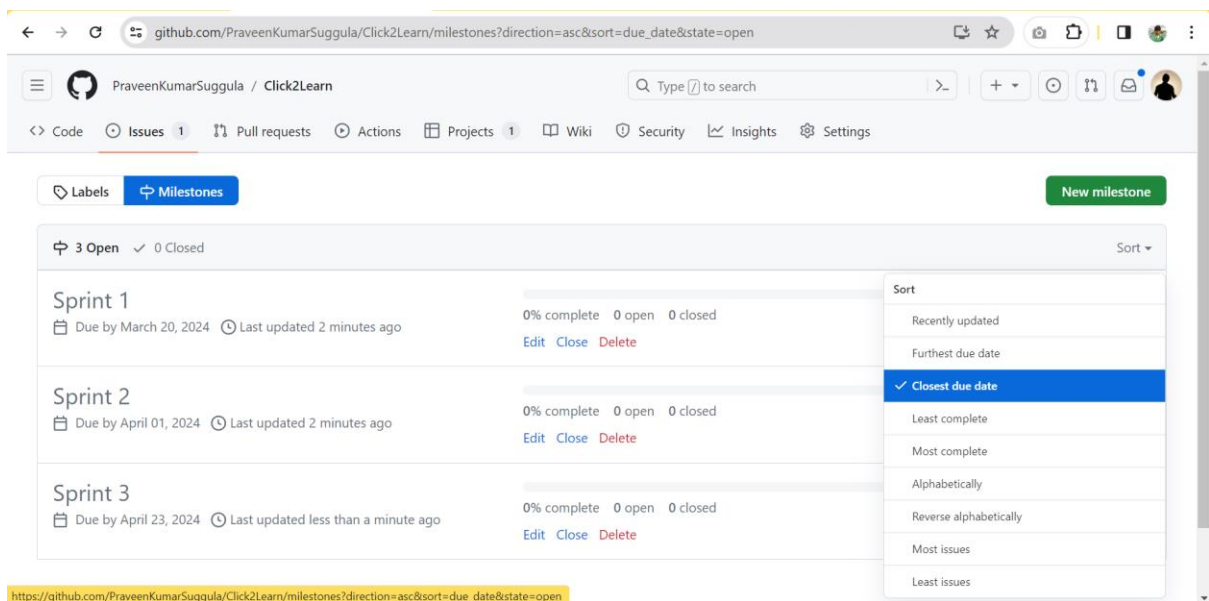


To create Milestone:



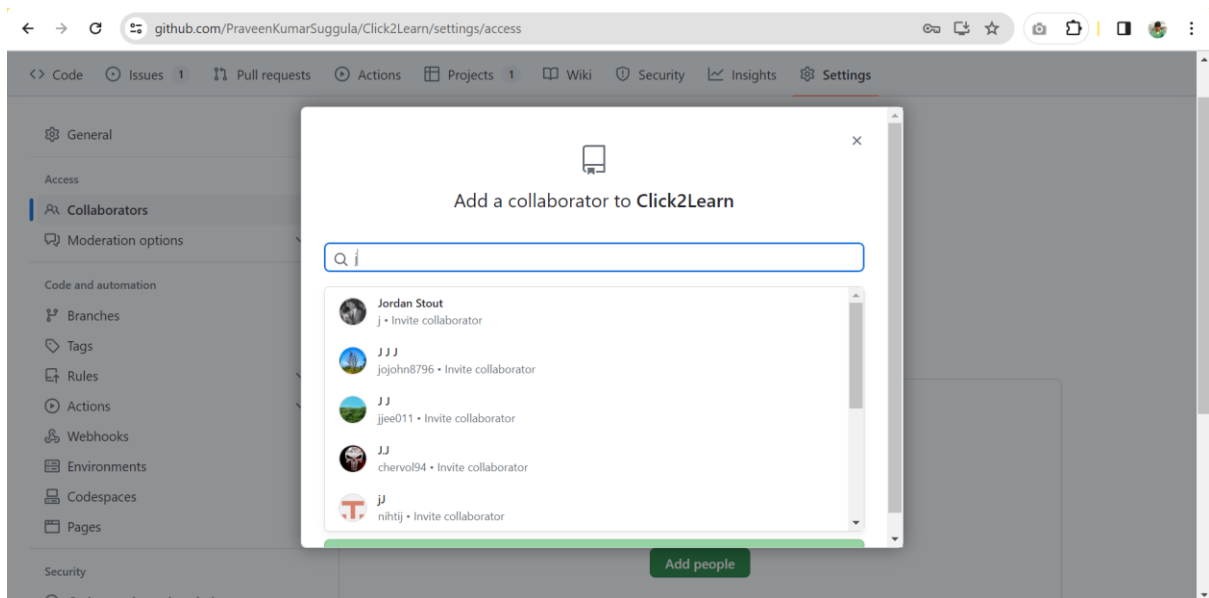
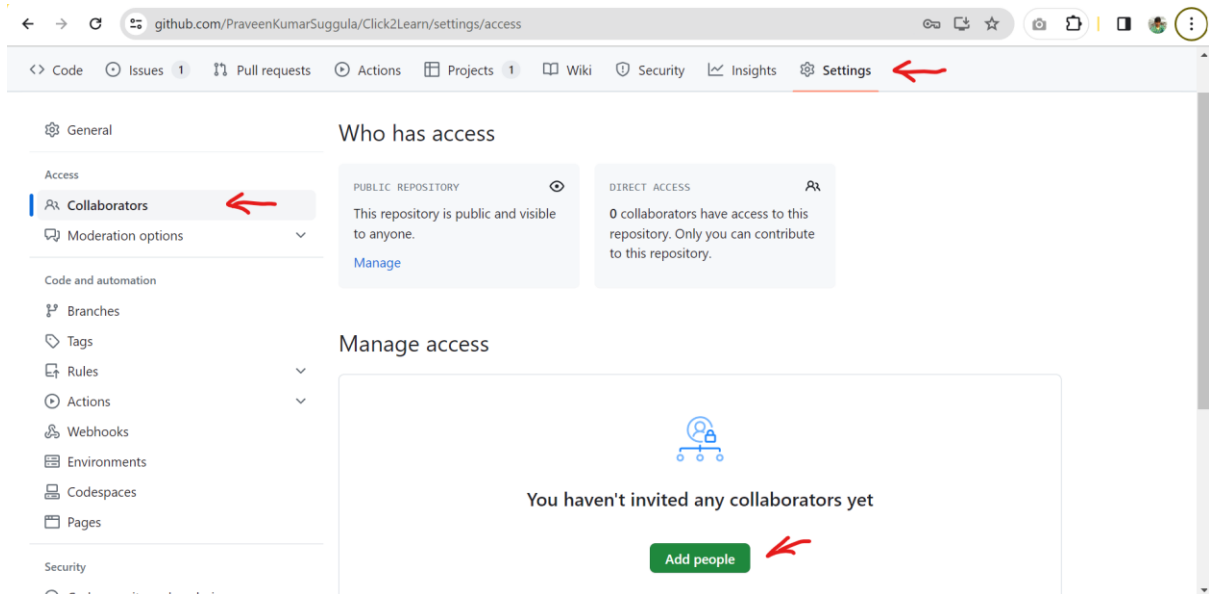
<https://github.com/PraveenKumarSuggula/Click2Learn/milestones>

Create milestone with proper title like sprint 1, sprint 2, sprint 3 and provide its deadline. And sort those based on closest due date.

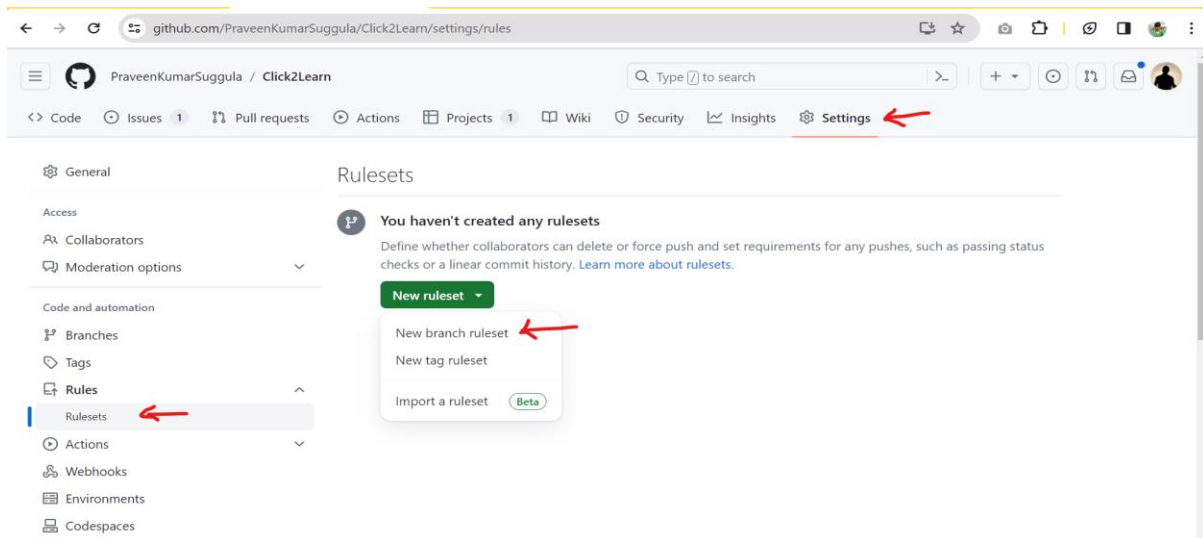


To Add Collaborators: (Team members)

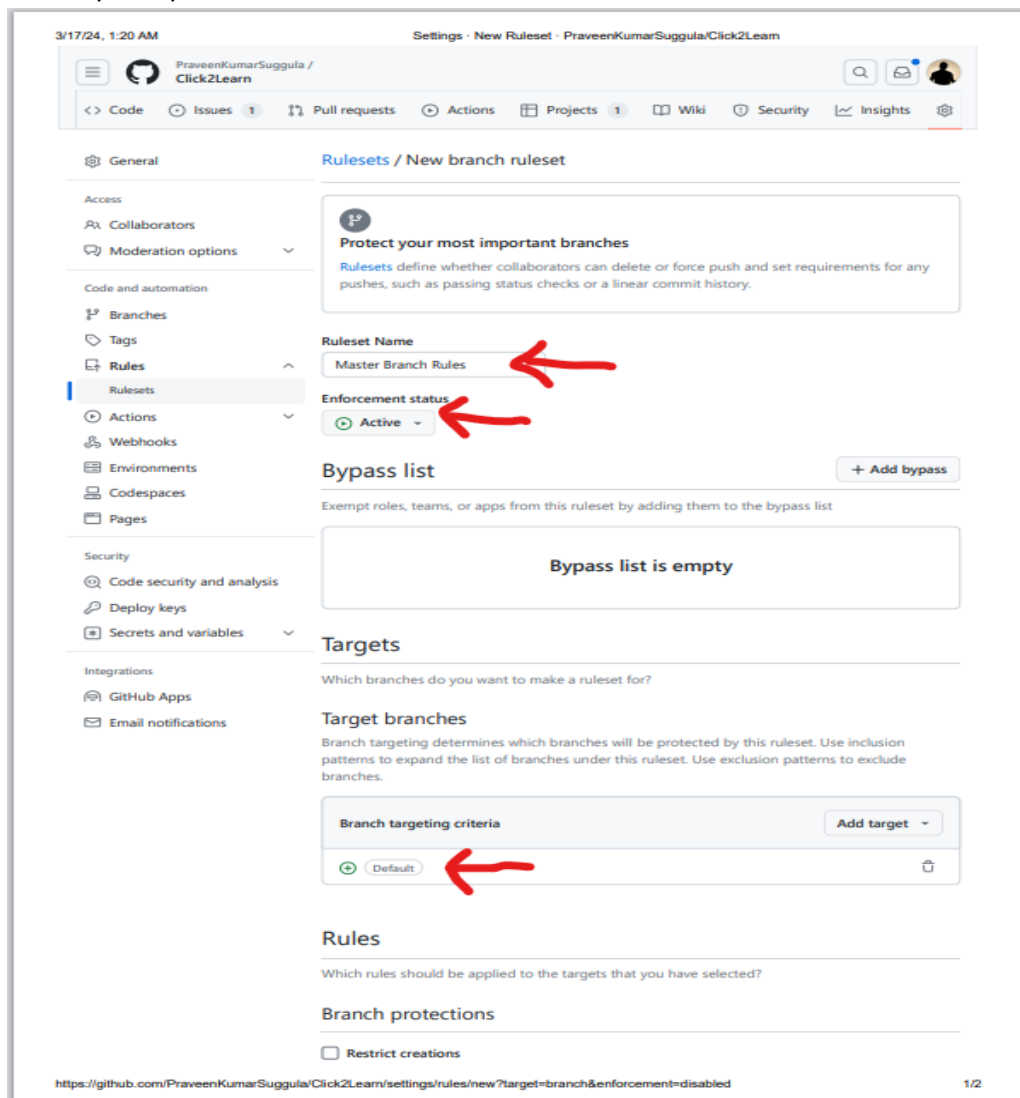
Open repo -> settings -> collaborators -> Add people -> and search for other team members to send access request.



To set Rules/Branch Protection: (Pull Requests)



Set your preferred rules like below. One reviewer is sufficient usually Scrum master/Lead/GitHub Owner.



3/17/24, 1:20 AM

Settings · New Ruleset · PraveenKumarSuggula/Click2Learn

Only allow users with bypass permission to create matching refs.

- ☐ Restrict updates
Only allow users with bypass permission to update matching refs.
- ☒ Restrict deletions
Only allow users with bypass permissions to delete matching refs.
- ☐ Require linear history
Prevent merge commits from being pushed to matching refs.
- ☐ Require deployments to succeed
Choose which environments must be successfully deployed to before refs can be pushed into a ref that matches this rule.
- ☐ Require signed commits
Commits pushed to matching refs must have verified signatures.
- ☒ Require a pull request before merging
Require all commits be made to a non-target branch and submitted via a pull request before they can be merged.
Hide additional settings ^
- Required approvals**
1
The number of approving reviews that are required before a pull request can be merged.
 - ☐ Dismiss stale pull request approvals when new commits are pushed
New, reviewable commits pushed will dismiss previous pull request review approvals.
 - ☒ Require review from Code Owners
Require an approving review in pull requests that modify files that have a designated code owner.
 - ☐ Require approval of the most recent reviewable push
Whether the most recent reviewable push must be approved by someone other than the person who pushed it.
 - ☐ Require conversation resolution before merging
All conversations on code must be resolved before a pull request can be merged.
- ☐ Require status checks to pass
Choose which status checks must pass before the ref is updated. When enabled, commits must first be pushed to another ref where the checks pass.
- ☒ Block force pushes
Prevent users with push access from force pushing to refs.

Create

Then goto your GitHub Repository -> Goto Projects -> Link a project -> select project

github.com/PraveenKumarSuggula/Click2Learn/projects?query=is%3Aopen

PraveenKumarSuggula / Click2Learn

Code Issues 1 Pull requests Actions Projects Wiki Security Insights Settings

Welcome to the all-new projects

Built like a spreadsheet, project tables give you a live canvas to filter, sort, and group issues and pull requests. Tailor them to your needs with custom fields and saved views.

Learn more

is:open

0 Open 0 Closed

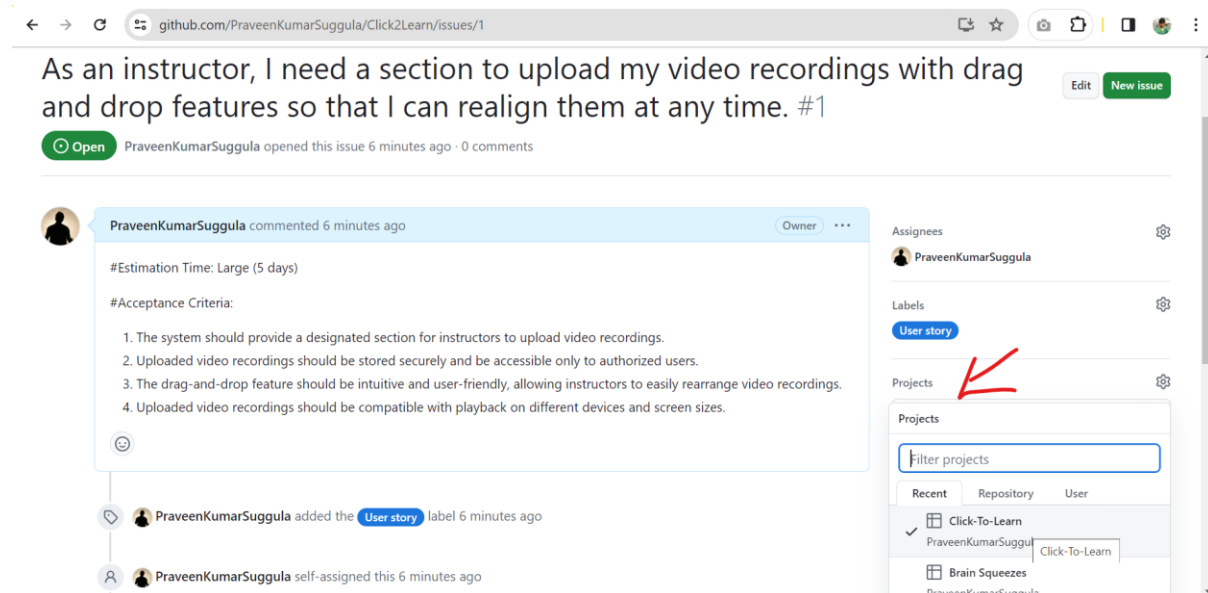
Sort

Provide quick access to relevant projects.

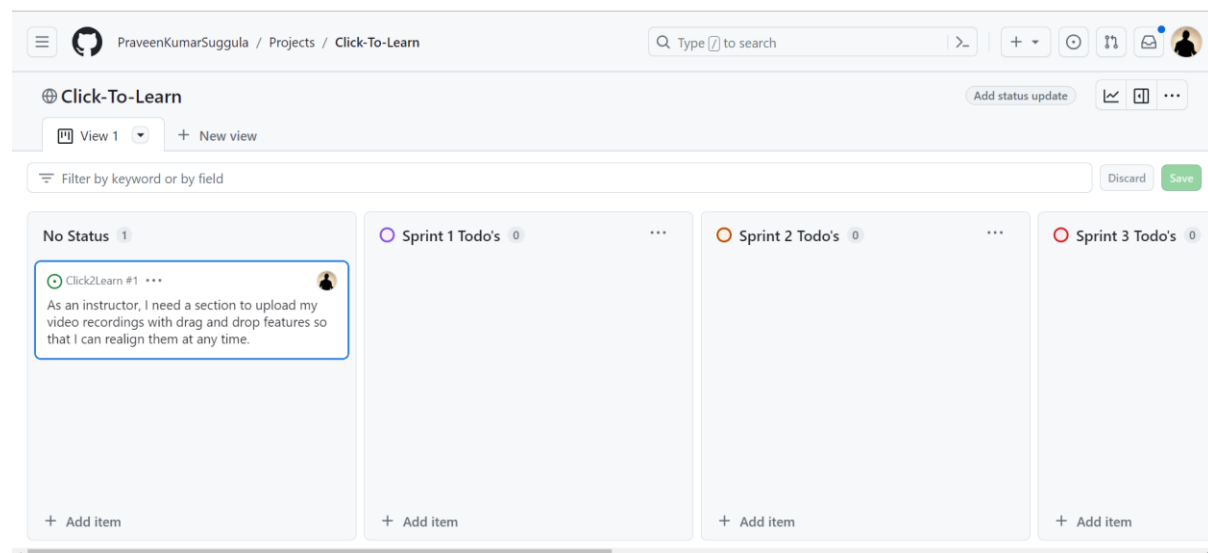
Add projects to view them here.

Link a project

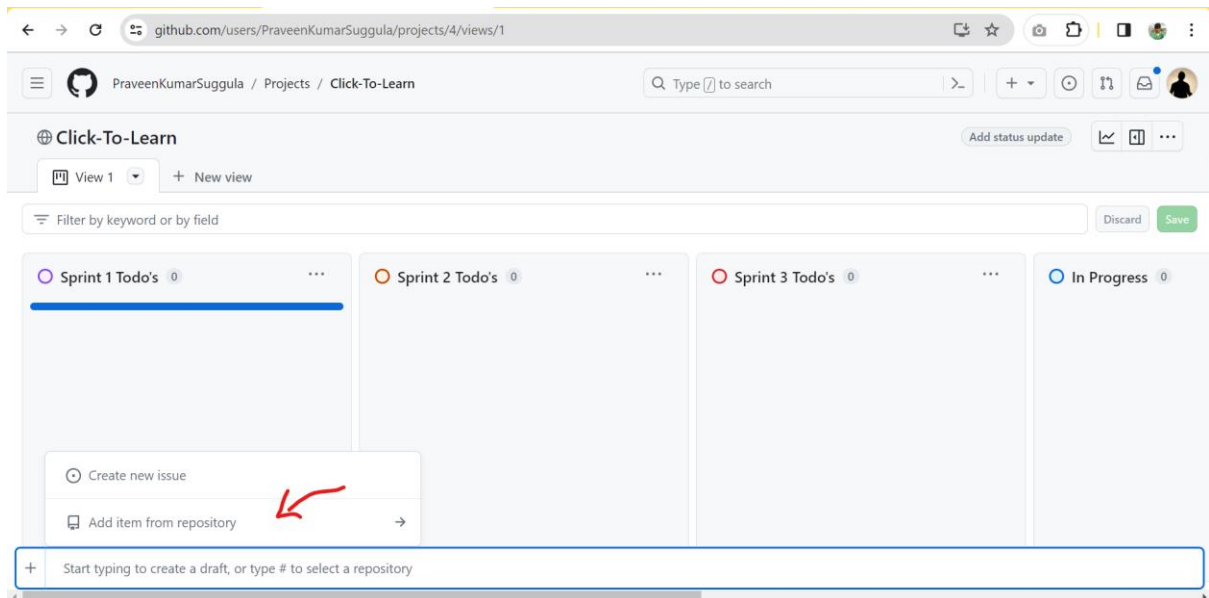
Once after linked project to GitHub repo, Assign previous created tasks to this board.
Alternatively, you can import multiple work items directly from project board which will discuss in further.



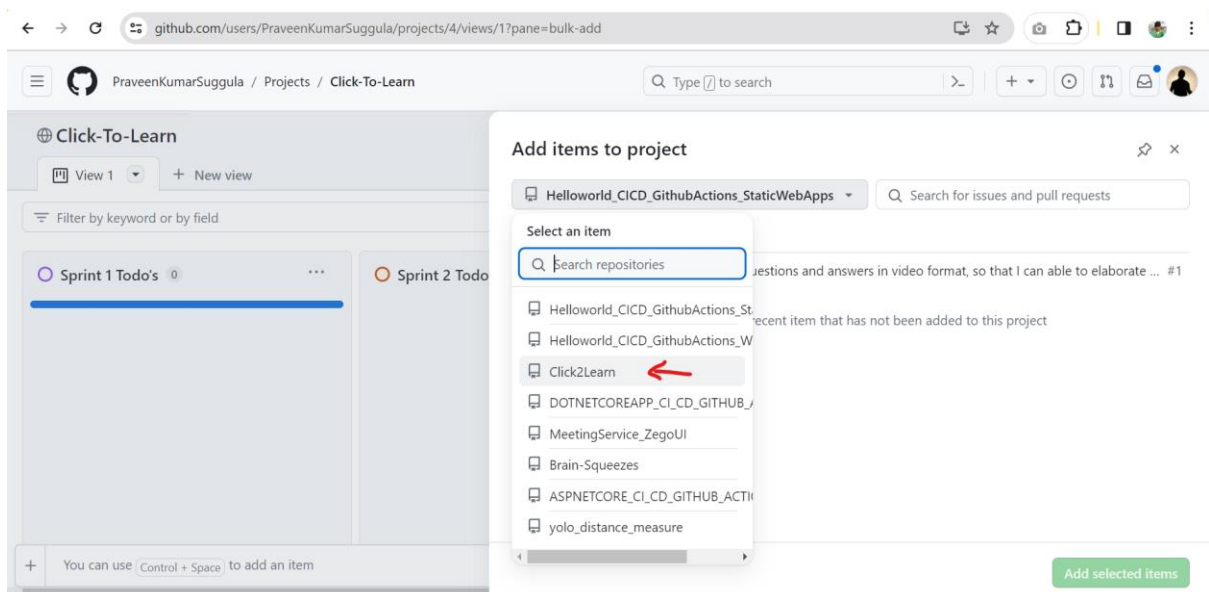
Then those items will visible on your board in no status section. Then you can drag and drop those.

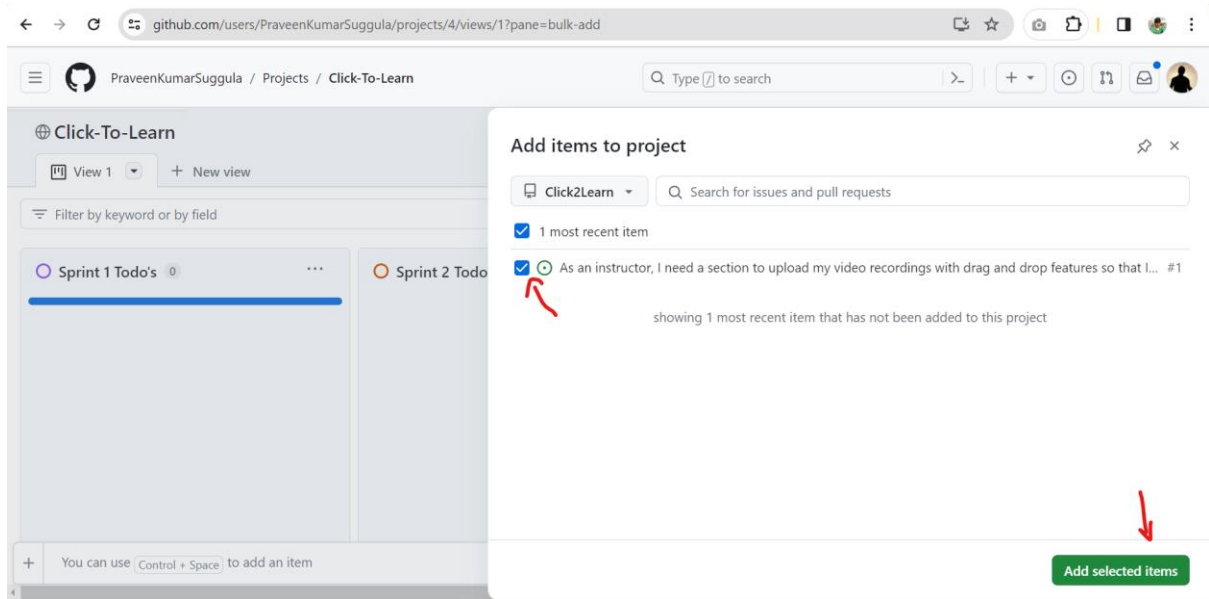


To import multiple existing work item under these sections, click on + Add items -> Add item from repository.

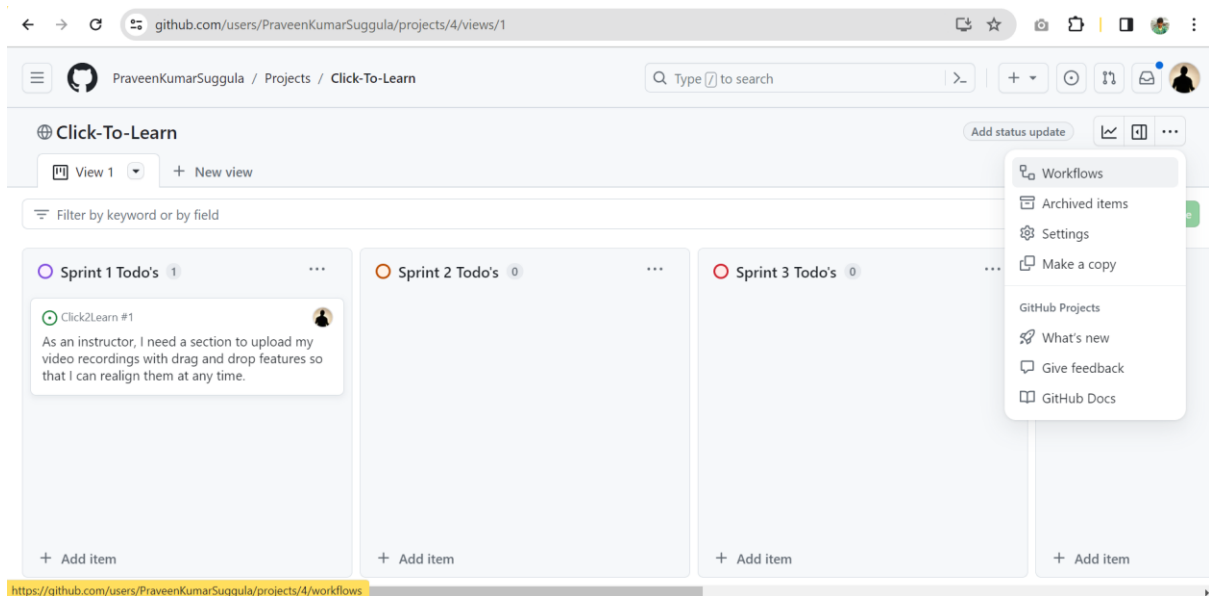


Select your repository and add selected items,

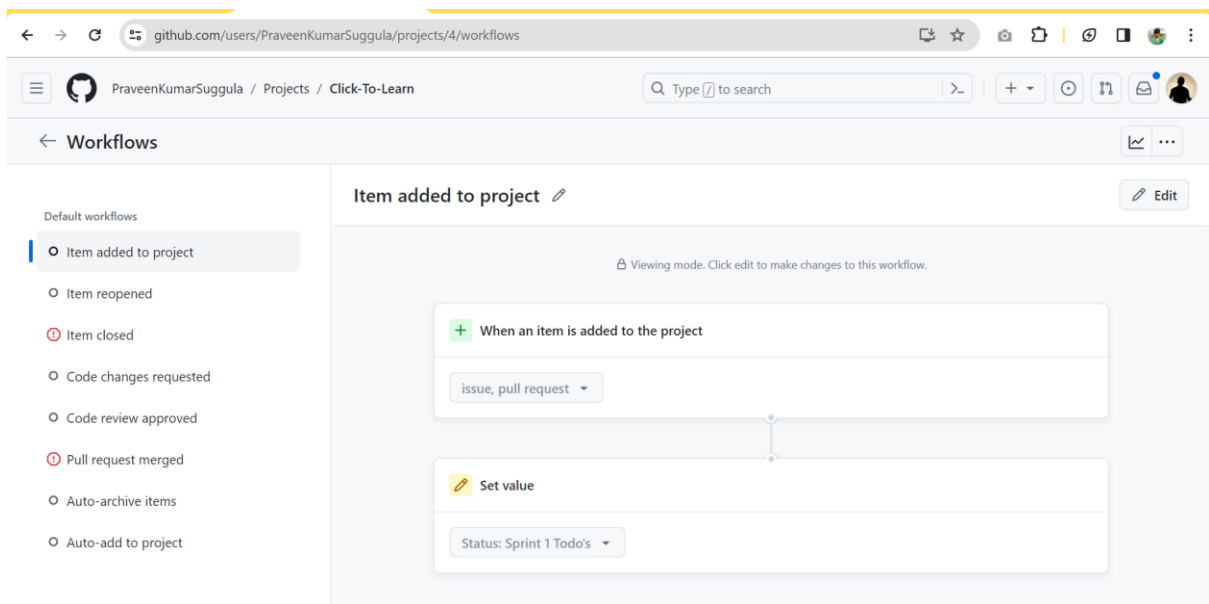




Note: Work items alignment in boards are not automated. If you plan those automation when an event occurs in repository, you need set an automation using 'Workflows'.



There are multiple options available to automate the board alignment, please try those.



You can change your board views and filter work items based on your choice.

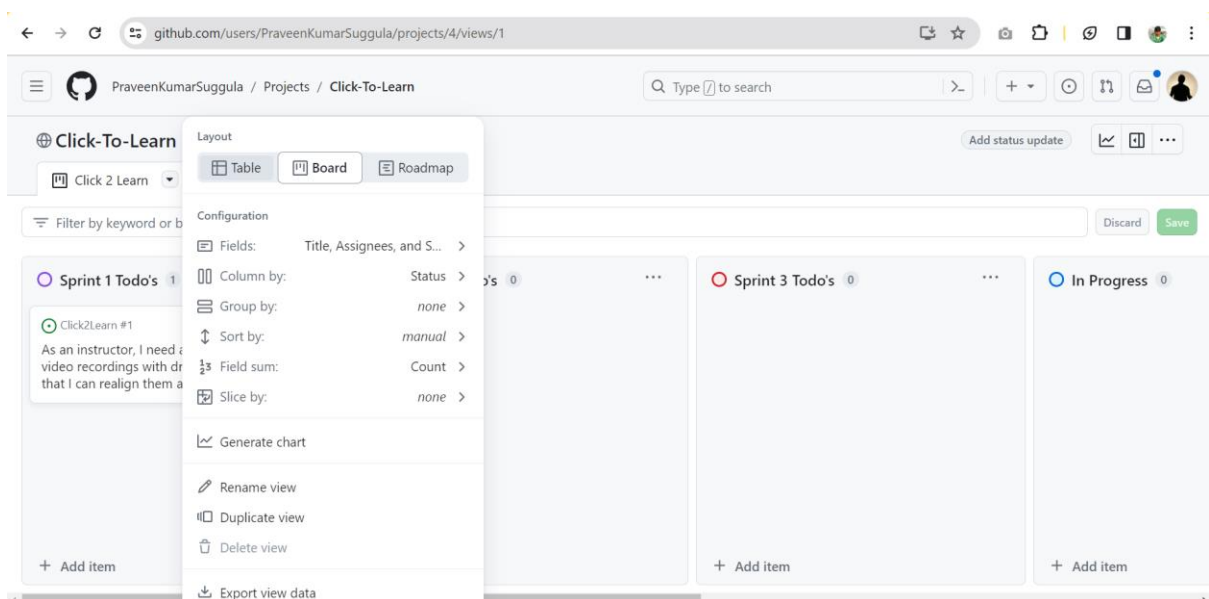
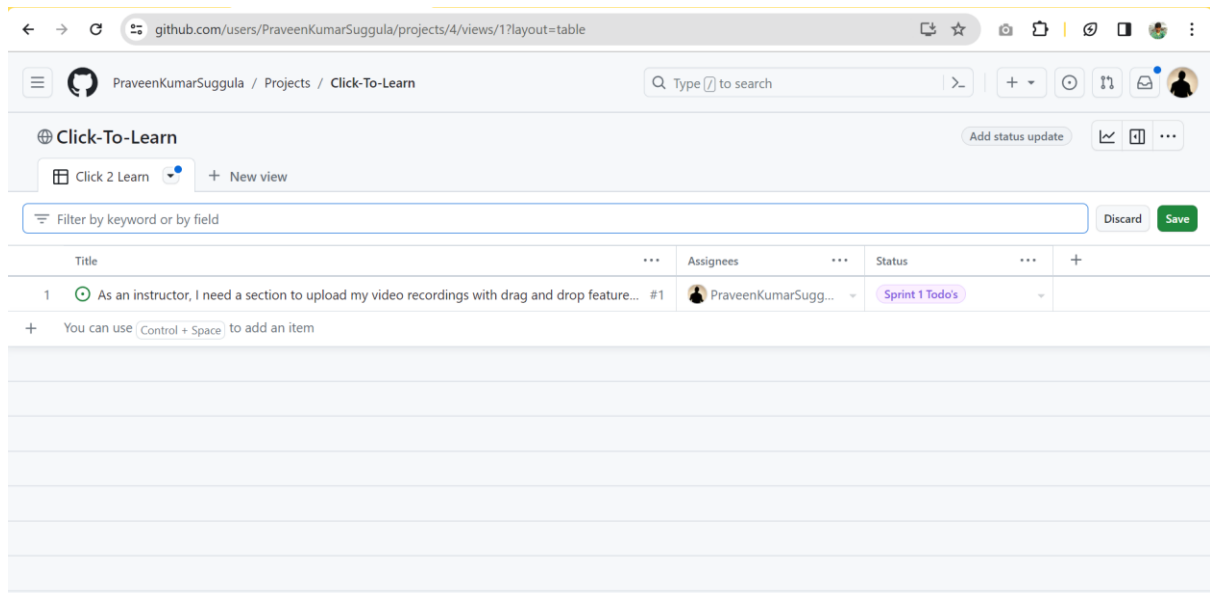


Table View,

- You can filter work items with Assignees, Status, Labels, Milestones, etc.,



Road Map View,

