

Project Management Tool:

Goal:

The goal of a project management tool is project tracking: At any point of time, anyone of us should be able to visit the tool and find out how the project is faring. What are the tasks that are pending, are we meeting the deadlines, where do we need to allocate more resources etc.

You may use any project management tool. Here is one example in case you would like to check it out. Of course if it does not fit your needs, you may try any other tool.

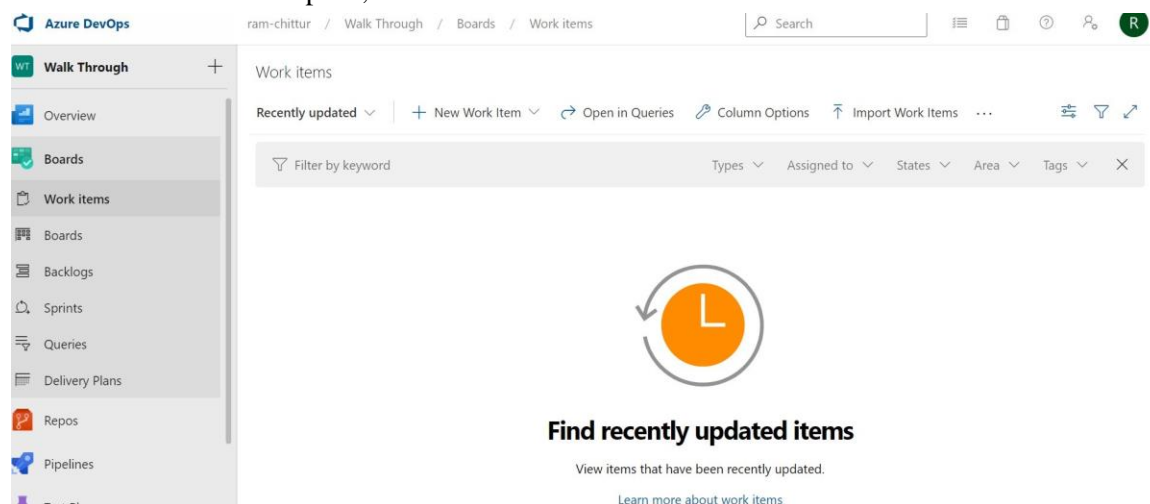
Azure Boards:

Please read through the documentation here:

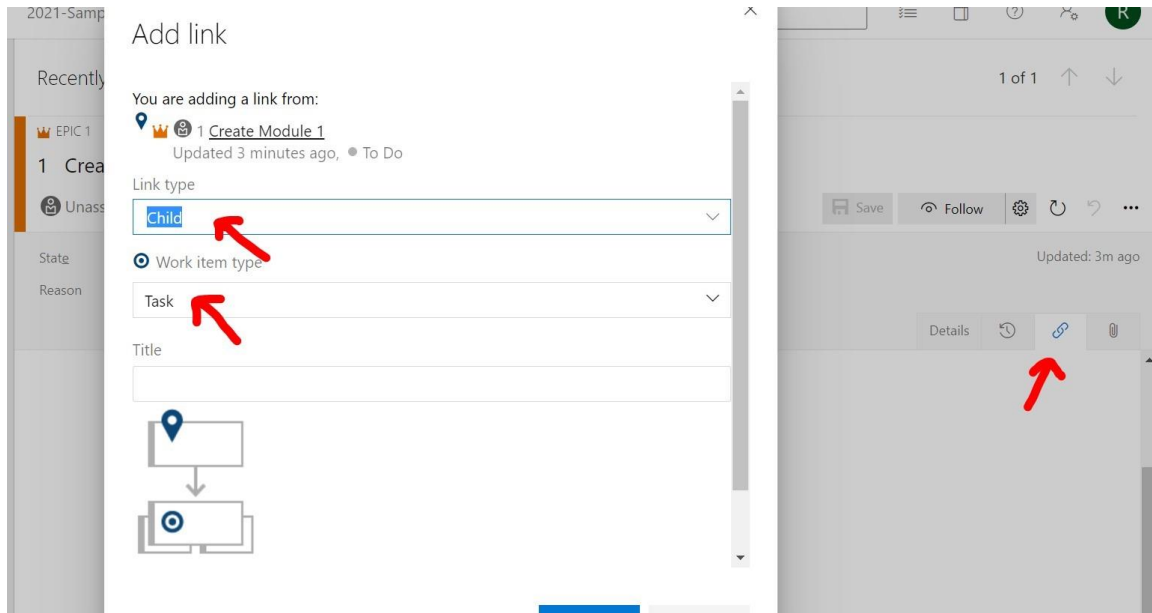
<https://docs.microsoft.com/enus/azure/devops/boards/get-started/what-is-azure-boards?view=azure-devops&tabs=agileprocess>.

Walk through:

- Go to <https://visualstudio.microsoft.com/>
- Sign in with your hotmail.com/live.com/outlook.com email address
- Click on Create New Organization. Name your Azure DevOps organization - say IIT-PKD
- Create a project, say your course name. You can make it private and invite others. I do not know how many people can collaborate etc. Hopefully all of you can edit/access/collaborate. Please find out for yourselves.
- On the left hand pane, click on Boards->Work items. It should look like this.



- Create "Epics" - one for each big scenarios. Like say, one for Networking Module, another for ScreenShare etc. Those can be assigned to the team leads. Create another for "Setting up Github" and assigned to the project manager. Yet another for "Project Spec" and assigned to the Technical Architect. And so on.
- Now you can go into each "Epic" and create child tasks. Assign it to the individual owners, and give an estimate on the number of days required. It is ok if the estimate is off the mark; that is something we will learn as part of this project and will get better at over time.



- Please discuss with the class and create the various scenarios/tasks. It is ok if we can't foresee everything that is required. Let us take a first shot at it. Here is a snippet of how it might look after you are done with the initial iteration. This is just a sample; of course you will have a lot more tasks on your list.

Azure DevOps interface showing a query of work items. The left sidebar shows the navigation menu with 'Queries' selected. The main area displays a table of 12 work items under the 'AllTasks' query.

| ID | Work Item... | Title | Assigned To | State | Tags |
|----|--------------|---|-------------|-------|------|
| 1 | Epic | Develop Networking Module | ... | To Do | |
| 2 | Task | Write Networking Module Spec | | To Do | |
| 3 | Task | Develop Queue Component | | To Do | |
| 4 | Task | Develop Serialization Component | | To Do | |
| 5 | Task | Develop Socket Component | | To Do | |
| 6 | Epic | Setup source depot | | To Do | |
| 7 | Task | Setup repo | | Done | |
| 8 | Task | Write project wiki | | To Do | |
| 9 | Epic | Develop Screen-Share module | | To Do | |
| 10 | Task | Write module spec | | To Do | |
| 11 | Task | Develop screen capture component at source device | | To Do | |
| 12 | Task | Develop screen render component at destination | | To Do | |

- You should be able to link your github commits to these tasks so that we can correlate the code/specs for each task. See documentation here:
<https://docs.microsoft.com/enus/azure/devops/boards/github/?view=azure-devops>.