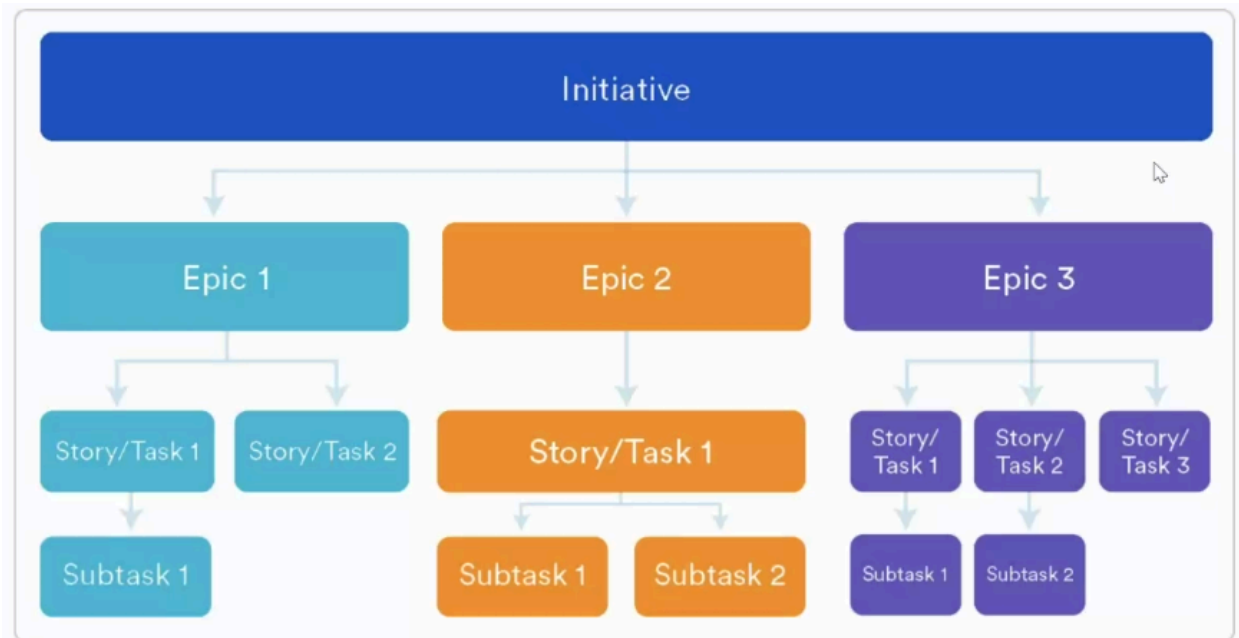**Tutorial 1: Tools for Software Engineering**
Friday Jan 19th, 2024
TA: Brendan Park

Project management involves:
- How to break down your tasks
- What tools to manage/organize your tasks
- What tools to organize your team and assigned work

Jira (using!)
Timelines
- Have big tasks in Epics, have breakdown of tasks underneath
- Can consider dependencies between then

Scrum boards
- Todo, in progress, in review, done
- Issue types (epic, story, bug, task, sub-task)

Reports and insights

Generate automated workflows

Can integrate GitHub with Jira
- Can view the repository through Jira

Project should have a key which we need to share with our TA so they can track progress

Backlog
- Each time you create an issue you can select what kind of issue it is
- Create issues which are applicable to the user stories
    - Sounds like user stories don't need to be in Jira, just the release planning doc
- As a user I want to know what apps I spend more time on than others

- Child issues
  - Look into APIs for tracking app usage
- Wants a lot of details in the description

Good way to measure how people are progressing with the project since you can see number of completed issues

Confluence
Content management (storing info through documents/workflows)
Communication for teams and collaboration (less about organization)
Confluence provides a platform to create meeting notes, goals, discussion topics, decisions, action items
Shared calendar for meeting dates and deadlines
Blog post feature can be used for large discussions
Jira and Confluence are made by the same people and as such work very well together
Decision making documents (documents what decisions were made and why)
Can integrate Google Drive

GitHub (using!)
GitHub actions will be explained in the next tutorial (runs automated tests)
Code review - needs to be looked at by a member of the team before it is merged into master branch (reviewed by sprint master, was Brendan's recommendation)

Slack
Communication tool (90 days chat history)
Up to 10 app integrations, collaborative documents, 1 workspace
Like discord but more designed for software development process
Can be integrated with Drive, GitHub, Jira, Confluence