

Lab Assignment-1

ECSE365L: Agile Software Development

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1. Trello:

- Trello is so popular among agile teams, the entire tool is focussed around Kanban which makes it effortless to get started.
- Within each project, your board can have multiple columns known as lists and cards to represent a task.
- When you want to show progress being made, you move a card from one column to the other.
- Trello is great for small teams who don't need anything more than a Kanban board to track tasks.
- If you are looking to go beyond simple task tracking, Trello might not be the best option in the market.

➤ Agile Features in Trello:

1. Boards
2. Labels
3. Custom fields

2. GitHub Project Management:

- With GitHub Project Management, your team can manage, track, and fix issues too.
- By linking issues with pull requests and code commits, your team members can track updates in your project without complicating your workflow.

- And if you associate an issue with a pull request, it will automatically close when the pull request is merged.

➤ **Agile Features in GitHub Project Management:**

1. Board
2. Labels
3. Issue linking to pull requests
4. Setup a custom workflow in minutes

3. JIRA:

- JIRA software is by far the most popular agile tool for software teams.
- It was built for issue and bug tracking initially, but can be moulded to be used for software product development as well.
- Since JIRA software capabilities are nearly endless, it has become the default choice for most companies.
- However, their endless list of capabilities and their old UI and UX often hinders progress for several teams.
- It requires to be set up in the right way for teams to use it effectively.

➤ **Agile Features in JIRA:**

1. Issue types including user stories and bugs
2. Boards
3. Workflows
4. Backlog
5. Roadmap
6. Multiple types of reporting chart

4. Pivotal Tracker

- Pivotal Tracker is a project planning tool for software development teams.
- It is built to keep your agile team on track to hit their sprint goals.

- It's sprint planning guides you with breaking down and prioritizing projects into manageable, actionable chunks for your team to keep the momentum going.
- With a view of your team's work, Pivotal Tracker ensures everyone in your team has a real-time, single source of truth.

➤ **Agile Features in Pivotal Tracker:**

1. Stories
2. Estimation
3. Backlog
4. Iterations
5. Velocity chart

5. **ActiveCollab**

- ActiveCollab is the project management tool that lets you setup agile processes and makes it effortless to plan and track your work.
- With its document management, budgeting, and invoices, it goes beyond project management whenever you have a need it.
- It is effortless to configure and setup custom statuses.
- It includes several project management features that let you plan and streamline development processes within your organization.
- It works great if you work with multiple clients.
- It allows you to limit access to clients, so you don't have to give them entire access but limit it to just the data related to them.

➤ **Agile Features in ActiveCollab:**

1. Kanban Board
2. Time tracking
3. Labels

6. Sprintly

- Sprintly is an agile project management software that shows you what your team is working on and what they've finished.
- It makes it easy for start-ups and agencies to collaborate by giving them a full view of what the team is working on.
- Sprintly integrates with GitHub and allows your development team to automatically update their work from GitHub.
- It even integrates with Zapier if you need to add more capabilities to their integrations.
- One of Sprintly's biggest drawback according to some customer reviews on the internet is there are no due dates and no dedicated view for a sprint.
- It also tends to get slow and hamper the team's productivity.

➤ Agile Features in Sprintly:

1. Boards
2. Syntax filters
3. Reports
4. Integrations

7. Backlog

- Backlog by Nulab is an agile project management tool that also brings with it version control. The burndown charts, Git & SVN repositories, along with Wikis to help developers manage their entire workflow in one place.
- It aims to become the all-in-one software development tool.
- With capabilities like custom field and Gantt charts, it makes it easy for the team to organize and track work.
- Its simple interface lets you view, prioritize, and discuss all user stories in one place.
- And when there's progress being made or when you're assigned a new task, it has a notification system in place to let everyone know.

➤ **Agile Features in Backlog:**

1. Board
2. Task hierarchy
3. Gantt charts
4. Custom fields

Trello vs. JIRA: Choosing an Agile Project Management Tool

Systems and Pricing:

- The first thing you should know is that Trello's basic version is free. The free version of Trello gives users access to all project management features and doesn't impose any limits on the number of boards you can create or users you can add.
- Trello's two paid versions, Business Class and Enterprise, give you the ability to sync data with other business systems (Slack, GitHub, Salesforce, etc.), a board collections feature, and some administrative tools. Subscription fee is charged per user, per month.
- While JIRA's cloud-based platform doesn't have a free option, the cost is negligible for small teams and scalable for large ones.
- You pay a per-user subscription fee, but those per-user fees go down as your company grows. JIRA also offers on-premise deployment for users that want to customize their setup and install on their own hardware.
- JIRA has several different versions, including JIRA Core, JIRA Software, and JIRA Service Desk. You can purchase JIRA Core with the Software and Service Desk add-ons, or only the version of the software that fits your needs.

Both Trello and JIRA offer most of their features in a single module. And because Atlassian bought Trello, you can enjoy connections to all the other tools in the Atlassian suite, which includes Atlassian Confluence, HipChat, Service Desk, Bitbucket, and other products.

Task Management:

- Trello excels at task management. It's also one of the easiest platforms on the market to learn.
- Tasks and project work are logged using a three-part hierarchy: Boards, Lists, and Cards.
- JIRA takes a different approach to task management, although with some of the same features.
- Most out-of-the-box JIRA workflows are designed to help teams build, test, and release software, but you can also create custom workflows for use in other product development and agile scenarios.
- Then again, JIRA's task management features are baked directly into an agile framework, so you'll have less flexibility if you aren't working on a software release.

Team Collaboration:

- With Trello, you can invite any number of people to share the same board, which means everyone will have the same visibility into project status and tasks.
- Users can comment directly on cards, share attachments, @mention other teammates, and, of course, use emojis.
- All users assigned to a particular card, list, or board will receive notifications via email, SMS, or push, based on their preferences.
- JIRA also offers the more "traditional" collaboration features right in your issues and boards: team member task assignments, notifications, file sharing, and messaging.

Agile PM and Features for Dev Teams:

- While Trello excels as a flexible, visual Kanban task management platform, it doesn't offer most of the agile features a traditional software development team would look for — like Scrum and sprint planning, a backlog of user stories, detailed project reporting, issue tracking, and code repositories.
- JIRA, on the other hand, was built specifically to serve agile software development teams and offers a whole gamut of features to that end.

- Whether building code or tracking issues (available in JIRA's Service Desk edition), JIRA can support Scrum methodology, Kanban, or a mix of the two.

Integrations:

- Trello has a decent list of native apps and integration connections in its library. A few of the more noteworthy include Zendesk, FogBugz, Slack, GitHub, Salesforce, and Google Drive.
- In terms of sheer quantity, JIRA has a massive library of native integrations for time tracking, test management, CRM, reporting, code review, email, cloud storage, and so on.

Final Decision – Which is a Better Option?

- Trello is a simple, customizable Kanban board for teams that want to work agile, but aren't observing the whole liturgy of agile development.
- JIRA is a project management tool for by-the-book agile teams that are building, fixing, and releasing software.
- Trello/JIRA – either of them could serve beneficial depending on the context of project, requirements and objectives – personally, I consider JIRA over Trello as a better option, considering the aforementioned illustrated debate.