1. **In your opinion, what is the greatest benefit of using test management systems? Which of their features allow to achieve this benefit? Support your answer.**

Using a test management tool (as an alternative of tracking all our testing manually in tools like Excel or Google Sheets) has a lot of benefits:

* **Facilitates Organization:** The fact that we have all the test cases and test runs (with results, defects) in one centralized place, ensures that teams can easily access and manage their projects, and organize all of our testing information.
* **Scheduling & Tracking:** A test management tool also helps us schedule upcoming and current projects better, features like Milestones help us keep track of when specific Test Runs need to happen, their testing coverage, and this way it’s easier to control the deliverable of specific projects and product launches.
* **Accesses:** it’s easy to give access and share the project instance with stakeholders within the company when necessary. Also, a test management tool allows tests to be assigned to specific people within the team, so it’s also easier to manage a team of testers through a test management tool.
* **Test Cases:** A test management tool also lets us copy and move test cases, and use test case templates that can save time during the process of creating test cases.
* **Live Dashboards:** Access to live graphs that give us testing coverage (percentage of passed versus failed) within test runs and milestones.

1. **Transfer the test cases you created in previous classes to the test management system (TestRail or Azure DevOps).**

* Home Assignment - Lesson 5 | Asos Site:

<https://anasofiasampaiodemoura0410.testrail.io/index.php?/projects/overview/3>

* Home Assignment - Lesson 6 | Catsharing App:

<https://anasofiasampaiodemoura0410.testrail.io/index.php?/projects/overview/2>

1. **We keep on working on a startup for a cat photo sharing app. We decided to introduce a project management and test management system.**

**Your task is to make a comparative analysis of several systems to choose from (e.g. Jira, Azure DevOps, Asana, Trello, etc.):**

* **what they can do**
* **what are the restrictions**
* **how much it will approximately cost for your project - (your team consists of ~10 people)**

|  | **What they**  **can do** | **What are the**  **restrictions** | **Cost For**  **Project**  (Team=10) |
| --- | --- | --- | --- |
| [**Jira**](https://www.atlassian.com/software/jira/work-management)  **Project**  **Management**  **Tool** | 1) Unlimited tasks and projects  2) Has lists, timeline, calendar, board, and summary views  3) ~20 project templates  4) Has forms to collect data from the team  5) Reporting: Overview on project status, statics, tasks to be done, on team member’s individual progress  6) Dashboards to visualize data from all Jira products  7) In terms of customization seems more fitted for a team with complex needs  8) Integrates more seamlessly and is more oriented for software development | 1) Maximum 10 users (after that we need to move to the starting plan)  2) Maximum 20GB storage  3) Doesn’t allow Issue-level security - Lock down specific users/user groups to see or edit information regarding for sensitivity work  4) Can’t assign different roles to different users  5) Can’t control whether users can create new projects to what users can do, see, and comment within a project or issue  6) No support: Only has community Support  7) Might have a higher learning curve since it has more complex features | $0 - Free  (Starting Plan:  $5) |
| [**Asana**](https://asana.com/pricing)  **Project**  **Management**  **Tool** | 1) Unlimited tasks and projects  2) List and board view projects  3) Unlimited activity log  4) Calendar View  5) 100+ free integrations with other Apps | 1) Maximum 15 users  2) No timeline or unlimited dashboards  3) No custom Fields  4) No forms to collect data from teams | $0 - Free  (Starting Plan:  €10.99) |
| [**Trello**](https://trello.com/pricing)  **Project**  **Management**  **Tool** | 1) Up to 10 boards per Workspace  2) Unlimited storage (10MB/file)  3) Custom backgrounds & stickers  4) Unlimited activity log  5) 2-factor authentication  6) Easy to use UI | 1) No timeline or unlimited dashboards  3) No custom Fields  3) No calendar view that displays start dates, due dates or an advanced checklists | $0 - Free  (Starting Plan:  $12.50) |
| [**ClickUp**](https://clickup.com/pricing)  **Project**  **Management**  **Tool** | 1) Unlimited Tasks & Unlimited Free Plan Members  2) Two-Factor Authentication  3) Shows tasks from all of spaces and lists in one view  4) Real-Time Chat  5) Sprint Management  6) Calendar View  7) In-App Video Recording  8) 24/7 Support | 1) Maximum 100MB Storage  2) 5 spaces  3) 100 Lists per space  4) Customer fields with 60 uses  5) Timeline 60 uses  6) No forms to collect data from teams  7) ~50 Native Integrations  8) No freemium plan | $7  per month |
| [**Azure DevOps**](https://azure.microsoft.com/en-us/pricing/details/devops/azure-devops-services/)  **Project and**  **Test**  **Management**  **Tool** | 1) We can plan, execute, and track tests  2) It could be an integrated solution covering development and testing.  3) Browser-based tests with annotation  4) Rich-client test execution  5) User acceptance testing  6) Centralized reporting | 1) The primary focus of Azure DevOps is not test management, potentially limiting advanced test management features  2) UI is not as friendly so the learning curve could be greater for team members that don’t have experience  3) No freemium plan | $52  per month  per user  (Total $520) |
| [**TestRail**](https://www.testrail.com/)  **Test**  **Management**  **Tool** | 1) Built for testing purposes  2) There is a centralized test case repository for manual and automated tests in TestRail  3) There are reusable Test Cases and Test Case Templates to save the team time  4) We can record all changes to test cases and access historical results  5) Define a group of tests to be run, assigning them to your team members  6) Real-time reports for projects, milestones, and test runs | 1) We need to integrate TestRail with various development and project tools  2) If we choose TestRail we need to have additional tools, meaning that team members need to learn and adapt to them  3) No freemium plan | $37  per month  per user  (Total $370) |

Considering the table above, I would choose the Jira Tool as a project management tool. From all the options mentioned, it seems to be the one that offers the most diversity of features within the free plan (which currently fits the needs of our team). Additionally, the Starting Plan (that we would have to opt-in once we surpassed the 10 users) is the lowest from all other tools. Jira seems to be the best tool for teams involved in software development and that use an agile approach to manage their projects. The fact that we can seamlessly integrate with other development tools (like a test management tool) is a big plus for us.

For a test management tool,TestRail seems to be the better fit. It's a specialized test management tool, so it gives us a high level of customization and features tailored for testing. It offers robust set features for creating, organizing, and managing test cases, and real-time reports that we can use to track our testing progress.

Finally, going with these tools is the cheapest option as well, we would have an initial cost of $37 or, in case we need to upgrade to Jira Starting Plan, $42.