# Project Management with Jira

## Introduction to JIRA

JIRA is developed by Atlassian Inc., an Australian Company. It is a web application which means it is a platform independent tool; it can be used with any operating system.

JIRA can be integrated with many other tools − GIT, Clearcase, Team Foundation Software, Mercury, Concurrent Version System and many more etc.

## Licence

JIRA is a commercial tool and available as a Trial version for a limited time. To utilize JIRA services, a license is required. Thus the many companies which use JIRA purchase a license to use it.

During the Moringa Data Science course, we will use both the trial version as well as a License for academic projects.

## Uses

* JIRA is useful in Project Management, Task Tracking and Requirement Management as in our case of managing data science projects.
* JIRA is used in Bugs, Issues and Change Request Tracking.
* JIRA can be used in Help desk, Support and Customer Services to create tickets and track the resolution and status of the created tickets.

## Getting Started

We will perform the tasks described below so as to get familiar with JIRA.

1. We will first **Sign up** by;
   1. Following this link (<https://www.atlassian.com/software/jira>)
   2. Selecting Try now
2. Create a **Project**
   1. This will be prompted upon sign up
   2. Select the Kanban Template
      1. Kanban is a workflow management method designed to help you visualize your work, maximize efficiency and be agile. You can watch a short 5 min video to understand kanban.
3. Manage User **Roles**: Data Engineer, Business Analyst, Machine Learning Engineer
   1. *Steps: Kanban board -> Settings Icon -> System -> Project Roles -> Summary -> Roles -> View Project Roles*
4. Adding a **User to the Project**: Add your Peer
   1. *Steps: Kanban board -> Project Settings -> People -> Add People -> Role -> Add*
5. Creating a **New Issue**: Business Objectives
   1. *Steps: Kanban board -> Click the Plus icon on the Left of the screen -> Issue Type (story) -> Summary -> Description -> Create*
6. Update **Issue Description**: Description
   1. Description: Uncovering important factors that could influence the outcome of the project
   2. *Steps: Kanban board -> Click on Issue -> Add Description -> Save*
7. Adding a **Subtask**: Subtask
   1. Subtasks: Set Objectives, Produce Project plan, Business Criteria
   2. *Steps: Kanban board -> Click on Issue -> Create Subtask icon -> Create*
8. Assign a **Team Member** to an issue: Assign your peer
   1. *Steps: Kanban board -> Click on Issue -> Assignee -> Click on the team member to assign the project to)*
9. Change **Status of an Issue**: Change to Done
   1. *Steps: Kanban board -> Click on Issue/ Subtask -> Status Dropdown Arrow -> Select Status -> Change to Doe*

More information on how to use Jira can be found on the official documentation page. [[Link](https://confluence.atlassian.com/adminjiracloud/administering-jira-cloud-products-884344454.html)]