**Lab Exercise 1 - Creating Project, Epic, Story, and Issues in JIRA for LMS**

**Objective:**

Learn how to create and manage a project in **JIRA** by setting up an **Epic, Stories, and Issues** for a **Library Management System (LMS)**.

**Prerequisites:**

* Access to a JIRA instance (Cloud or Server).
* Permissions to create projects and manage issues.

**Step 1: Create a New Project in JIRA**

1. Log in to **JIRA**.
2. Click on **Projects** → **Create Project**.
3. Select **Scrum or Kanban** (Scrum is preferred for tracking development).
4. Enter the project details:
   * **Name:** Library Management System
   * **Key:** LMS
   * **Project Type:** Software Development
5. Click **Create**.

**Step 2: Create an Epic for LMS**

1. Open the LMS project.
2. Click on **Create Issue**.
3. Select **Issue Type:** Epic.
4. Enter Epic details:
   * **Epic Name:** User Management
   * **Summary:** Manage users (students, librarians, admins).
5. Click **Create**.

**Additional Epics:**

* **Book Management** (Adding, deleting, and searching books).
* **Transaction Management** (Borrowing, returning, and tracking books).

**Step 3: Create User Stories Under the Epic**

1. Click **Create Issue** again.
2. Select **Issue Type:** Story.
3. Link it to the **User Management** Epic.
4. Enter story details:
   * **Summary:** User Registration
   * **Description:** As a new user, I want to register so that I can access the library system.
5. Click **Create**.

**Additional Stories:**

* **Login Feature** (User logs into the system).
* **Role Management** (Assign librarian/admin roles).

**Step 4: Create Tasks and Issues for Each Story**

1. Click **Create Issue**.
2. Select **Issue Type:** Task.
3. Enter task details:
   * **Summary:** Design the User Registration Page
   * **Description:** Create UI for user registration using React.
   * **Assign to:** Developer
   * **Priority:** High
4. Click **Create**.

**Additional Issues:**

* **Backend API for User Registration**
* **Database Schema for Users**

**Step 5: Track and Manage Issues**

* Move issues through workflow stages (**To Do → In Progress → Done**).
* Use JIRA **Board View** to track progress.
* Add **comments, assignees, labels, and due dates**.

**Completion Criteria:**

✅ LMS project is created in JIRA.  
✅ Epics, Stories, and Issues are defined.  
✅ Issues are assigned and tracked through workflow stages.

This lab will help in managing software development efficiently using **JIRA**.