**Lab Exercise 2 - Creating a Space and Pages for Library Management System in Confluence**

**Objective:**

Set up a structured Confluence space for managing documentation related to a **Library Management System (LMS)** by creating relevant pages, organizing content, and collaborating effectively.

**Prerequisites:**

* Access to an Atlassian Confluence instance (Cloud or Server).
* Permissions to create a space and pages in Confluence.

**Step 1: Create a New Space in Confluence**

1. Log in to Confluence.
2. Click on the **Spaces** menu in the top navigation.
3. Select **Create a Space**.
4. Choose **Team Space** (or **Blank Space** for custom setup).
5. Name the space **Library Management System**.
6. Add a **Key** (e.g., **LMS**).
7. Add a **Description**: *This space contains documentation for the Library Management System, including requirements, design, user guides, and workflows.*
8. Click **Create** to set up the space.

**Step 2: Create Key Pages for LMS Documentation**

**1. Home Page for LMS**

* Click **Create** in the LMS space.
* Choose **Blank Page** or **Project Documentation Template**.
* Name the page **Library Management System Documentation**.
* Add an introduction with the purpose of the LMS and an overview of the contents.
* Click **Publish**.

**2. Functional Documentation Page**

* Click **Create New Page** in the LMS space.
* Name it **Functional Requirements**.
* Add a section for:
  + **User Roles** (Librarian, Student, Admin)
  + **Use Cases** (Book Borrowing, Returning, Membership Management)
  + **Workflows** (Book Reservation, Overdue Reminders)
* Click **Publish**.

**3. Technical Documentation Page**

* Create a new page named **Technical Documentation**.
* Include:
  + System architecture diagrams (Add UML diagrams via the Draw.io integration).
  + Database schema and API endpoints.
  + Technology stack (Java, MySQL, Spring Boot, etc.).
* Click **Publish**.

**4. UML Diagrams and System Design**

* Create a page named **System Design**.
* Insert UML diagrams like Class Diagrams and Sequence Diagrams (Use draw.io or Confluence’s built-in diagram tools).
* Document relationships between entities (Books, Users, Transactions).
* Click **Publish**.

**5. User Guide for LMS**

* Create a page **User Guide**.
* Add sections for:
  + How to log in
  + Searching and borrowing books
  + Admin dashboard overview
* Click **Publish**.

**6. Meeting Notes and Discussions**

* Use **Meeting Notes Template** to document discussions on LMS updates, decisions, and action items.

**Step 3: Organizing Content in Confluence**

1. Use **Page Tree Navigation** to structure content.
2. Add **Labels** (e.g., LMS, Documentation, User Guide).
3. Use **Macros** like Table of Contents, Status, and Task List for clarity.

**Step 4: Collaboration and Permissions**

1. Invite team members to contribute.
2. Assign appropriate **permissions** (View/Edit) for different roles.
3. Use **Comments and @mentions** to discuss updates.

**Step 5: Export and Share Documentation**

* Use **Confluence Export Options** to save pages as PDF/Word for distribution.
* Share links to stakeholders for review.

**Completion Criteria:**

✅ LMS space is created.  
✅ Functional & Technical documentation pages are set up.  
✅ UML diagrams are included in the System Design page.  
✅ User Guide is written for end-users.  
✅ Permissions and collaboration settings are configured.

This lab ensures a well-structured documentation system for the Library Management System using Confluence.