Odoo Test 2

1. User Role-Based Access Control (10 Marks)

- Modify **library.book** security:
    - Create three groups: **Librarian**, **Member**, **Admin**.
    - **Librarians** can create and edit **books** but cannot delete them.
    - Only **admins** can create new **publisher** and **authors**
    - **Members** can only **borrow books**.
    - **Admins** have full access.

2. Record Rules & Restrictions (10 Marks)

- Members should only see records they created in the model **library.borrow**.

- Librarians can see all books but only modify books they created.

- Ensure record rules do not interfere with admin users.

3. Field-Level Security (10 Marks)

- Only **Admins** can edit the **price** field in **library.book**.

- **Librarians** cannot see **available_copy_count**.

- The **publication_date** field should be **readonly** for all users except **Admins**.

4. Advanced Form & Tree Views (15 Marks)

- Modify the **library. publisher** model to:
    - Delete the field **name** and add a new field **partner_id** inheriting from **res.partner**

- Modify the **library.book** form view to:

    - Display the publisher's country dynamically.

    - Add a **One2many inline table** for **book copies** inside the book form.

- Enhance the **library.book tree view** with:

    - Show a **colored badge** for book states (draft, published, archived).

    - A quick edit for the **price** field.

    - A color indicator for books priced above $100.

5. Kanban & Search View Enhancements (15 Marks)

- Implement a **Kanban view** for books:

    - Display a different background color based on the book author nationality.

    - Show publisher details directly on the card.

- Add a **search filter** to find books:

    - By author

- By books published in the last 5 years
- By publisher

6. Context & Dynamic Domains (15 Marks)

- Apply a dynamic domain on **author_id** in **library.book**:
  - Show only authors from all nationality not **United States**.
- Modify the **library.member** to:
  - Show the Name- member_number like **Azeez-1998** in the **library.borrow**
- Use defaults to:
  - Pre-fill the **publisher_id** based on the selected author if the author has default publisher.
  - Set a **default price** 500$ when creating a new book when the user is **Admin**.
  - Set a **default price** 550$ when creating a new book when the user is **Librarian**.
- Use context to:
  - Set the type of publisher as **Company** when creating a new publisher
  - Set the type of publisher as **Individual** when creating a new author

7. Custom Buttons & Actions (15 Marks)

- Add in **library.book**:
  - Button to change the state (**draft, approved, rejected**) of book using one function
  - Action to bulk archive books that haven't been borrowed in 3 years.
  - Action to bulk reset the discount to 0%.
- Add in **library.author** and **library.publisher** :
  - An action to ban an author, preventing them from being assigned as the author or co-author of any book in the library.
  - Only the admin who has banned can lift it; no other admin has the authority to unban an author or publisher.

8. Gantt, Calendar & Pivot Views (10 Marks)

- Create a **Gantt view** for book publication dates.
- Create a **Calendar view** to display the return dates of borrowed books
- Implement a **Pivot view** to analyze borrow data by author and publisher.