**Library Management System Architecture for Librarian**

User LMS Librarian

**Entity layer**

Contains all entity classes for ORM.

Request

Response

**DATABASE MYSQL**

**DAO layer**

Communicates with service layer and Interacts with the database for records. And sends appropriate response to service layer.

Request

Response

**Service layer**

Implements the business logic provides appropriate response to controller and communicates with DAO layer for information.

Response

Request

**Controller layer**

**Process the request** -> Implementation of controllers for API.

Handle API request from frontend and communicate with service layer for proper response.

Controller communicate with frontend via REST API

Response

Request

Frontend communicate with backend via REST API

**Frontend Layer**

**User interaction** -> Updates books, read books, read past-transactions, lending book and returning book process.

User interaction with frontend