# **Library Manager**

Desktop application for library lending management.

# Requirements

#### **Functional requirements**

- Register books
- Set the number of copies of each book
- Register library users
- · Register the lending of books to users
- Register the return of books
- · Set the time to the return of books
- · Set the fine for delays
- Set a limit to the number of lendings any user is allowed to have
- Calculate the fine for delay and add it to the user's total pending fine
- Register the payment of fines
- Show all books
- · Show all users
- · Show a book's current lendings
- Show a book's history of lendings
- Show an user's current lendings
- Show an user's history of lendings
- Show an user's total pending fine

#### **Business rules**

- No login system. Any user of the software have admin privileges
- An user can only have a single copy of a book borrowed at a time
- A book can't be lend if currently all its copies are lend
- · An user with pending fines can't borrow any books

# **Entities**

### **Book**

- Title
- Author name
- Edition
- Release date
- · Number of copies owned

#### User

- Name
- Pending fine
- Phone number

# Lending

- Book
- User
- Lending date
- Returned
- · Return date

# Technologies used

- JavaMySQL