Test Project for Desktop 02
Esemka Library

Introduction

Esemka Library is a desktop application that used to manage borrow and return process in their library.

Contents

This Test Project consists of the following files/folders:

1. TP_Desktop02_LKSProv2024.pdf
2. EsemkaLibrary.sql

Description of project and tasks

While developing the test project, please make sure the deliverables conform to the basic guidelines given:

- The use of valid and proper naming conventions is expected in all material submitted.
- The use of basic and proper validation is expected for every input process.
- Time management is critical to the success of any project and so it is expected of all deliverables to be complete and operational upon delivery.

Application Requirements

The application has one screen as shown in **Error! Reference source not found.**.

Figure 1. Screenshot of Esemka Library Management System

✓ Show live current date and time in the right bottom corner of the form.

✓ User can input member name to search member's borrowing data. If no member match with the given input, show error message. It is guaranteed that member name is unique. If input name match with member data, then their ongoing borrowing data will be shown.

✓ Figure 2 shows an example of a member's ongoing borrowing data.

Figure 2. Showing a Member Borrowing Data

✓ Each member can borrow up to three books. Borrow duration for each book is up to seven days. The books that are due to be returned will be highlighted as yellow. Meanwhile, the books that are overdue will be highlighted as red.

✓ As shown in Figure 3, clicking Return Link in one of the records will mark that book as returned. The system then will calculate fine (if any) for that borrowing data. The fine is 2000 IDR for each overdue day.
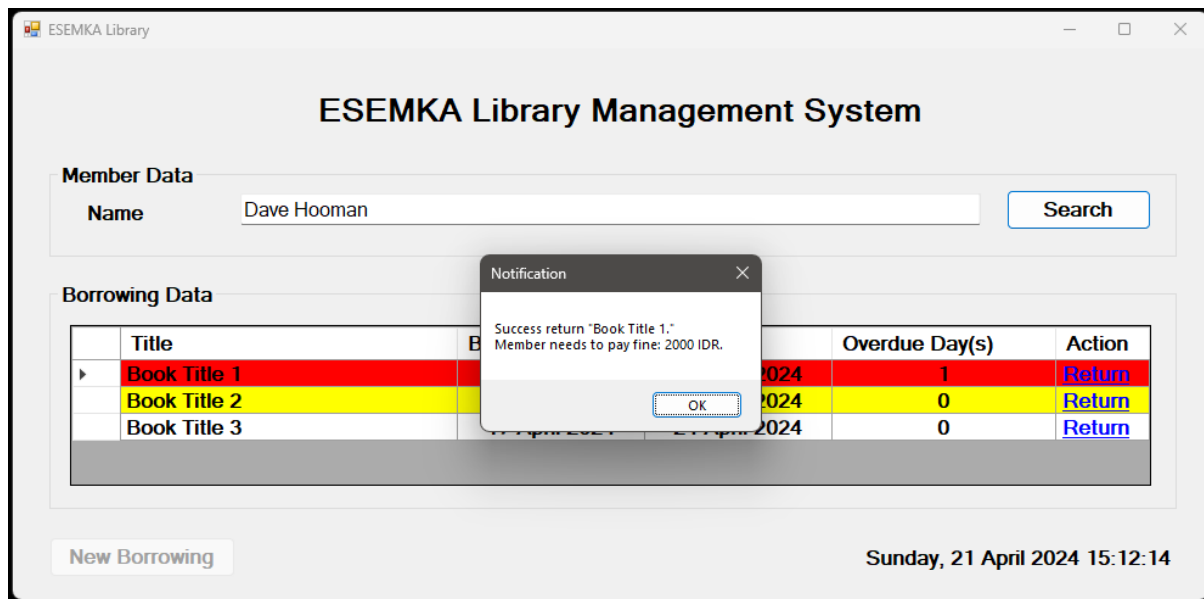

Figure 3. Screenshot of Return Process

✓ Button New Borrowing will be enabled if the user is eligible to borrow another book. Clicking the button will open New Borrowing Form as shown in Figure 4.
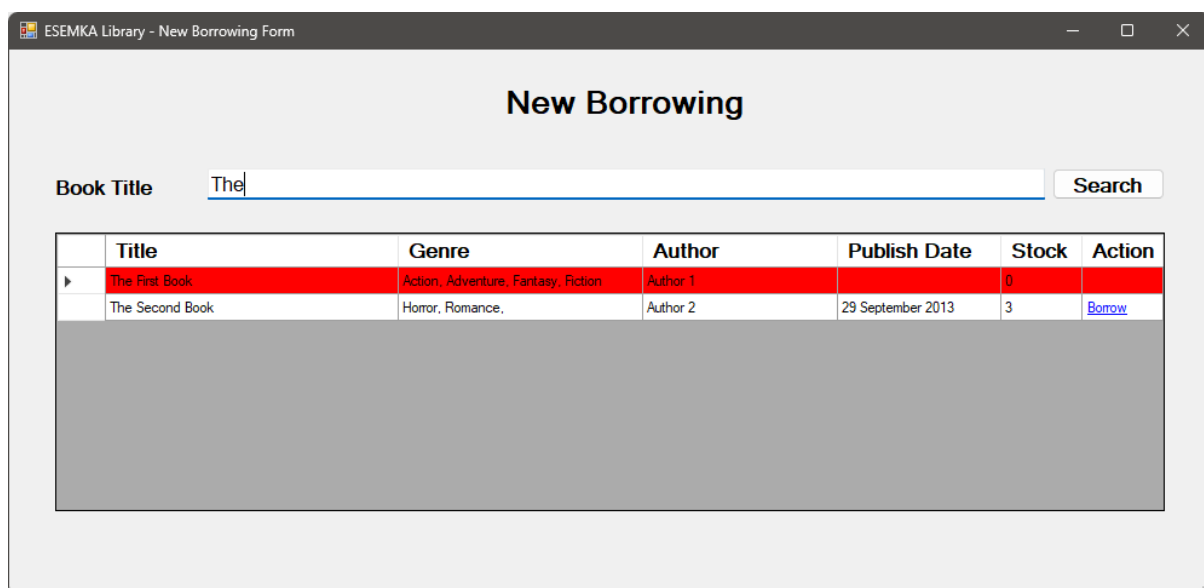

Figure 4. Screenshot of New Borrowing Form

✓ User can input book title to search, and the result will be displayed in the data grid view. The book which stock is zero, will be highlighted as red and will not be available for borrowing.

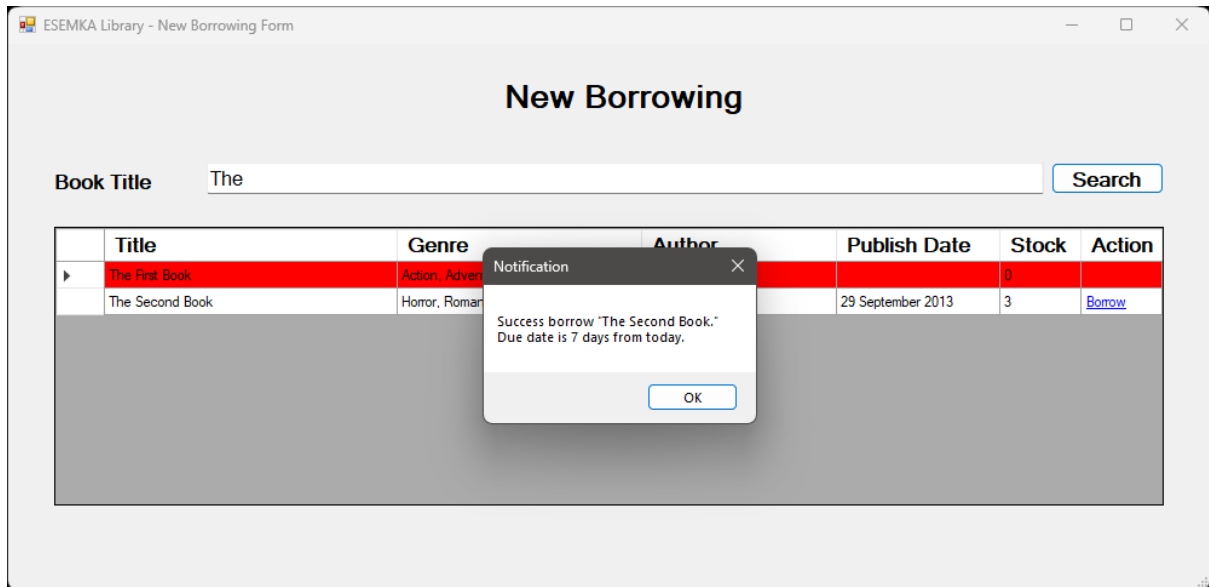✓ Clicking Borrow Link in one of the shown books will process the borrow. After that, the form will be closed and return to Main Form.

Figure 5. Screenshot of Borrow Process