

## Group E:

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### (Contact in case of problems or questions)

- Design of Use Case, Sequence, Class diagram and user interface.
- Programming of the prototype and creating output/reports.
- Testing the prototype.
- Writing internal and external documentation.

Brian Castellano: [castellb1@hawkmil.newpaltz.edu](mailto:castellb1@hawkmil.newpaltz.edu)

- Design of Use Case and Class diagram.
- Programming the prototype.
- Writing the internal documentation.

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- Design of Sequence and Class diagram and user interface.
- Programming the prototype.
- Writing the user guide.

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- Design of Class diagram.
- Programming the prototype.

## Files:

- Group E Project.zip:

Contains the source code as well as the files needed to run the program. (Program **must** be run from the **Library Class**)

- JavaDoc.zip:

Contains the html and css files with the Java Documentation.

# No Tech Marketing Company Reference Library

## Vision Statement

- The staff of the No Tech Marketing Company will be using this software, as well as the library manager.
- This software solves the problem of being able to keep track of what books are checked out and by who. Books are now digital and can be accessed through this software. The library manager can keep track of who has each book and update things about the reference library depending on their preferences.
- Some significant features:
  - Users can log in to their existing account or register a new one.
  - Users can search for, rent, read, return, and renew books.
  - Users can view the books they have checked out.
  - The library manager can change users book limits, change books time limits, add and remove books, as well as print a variety of reports about the reference library.
- The software will provide information to the user about books they search up or books they have in their cart, information such as copies left and due dates. The software will provide information to the library manager about the books that are currently checked out, how many times a book has been checked out, how many copies are left of a book, all of the user accounts and what books they have out, and the books categorized by subject all through printed reports.

## Software

You need to have java installed and an IDE capable of running java code. You will need to install the source code provided in the Group E Project.zip file and the the text files included in that file as well. The code then needs to be run from the Library class. If you would like to log in as the library manager to be able to access those privileges, the login information is as follows:

**Username:** manager

**Password:** 123

# User Guide

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# Introduction

The No Tech Marketing Company Virtual Library Application allows users to easily search through a catalogue of digital technology books on their computers, as well as be able to rent these books for a period of time. The purpose of this document is to help instruct new users and managers as to how to use this software.

## Getting Started

### System Requirements

- A computer capable of running Java based programs

### Quick Start

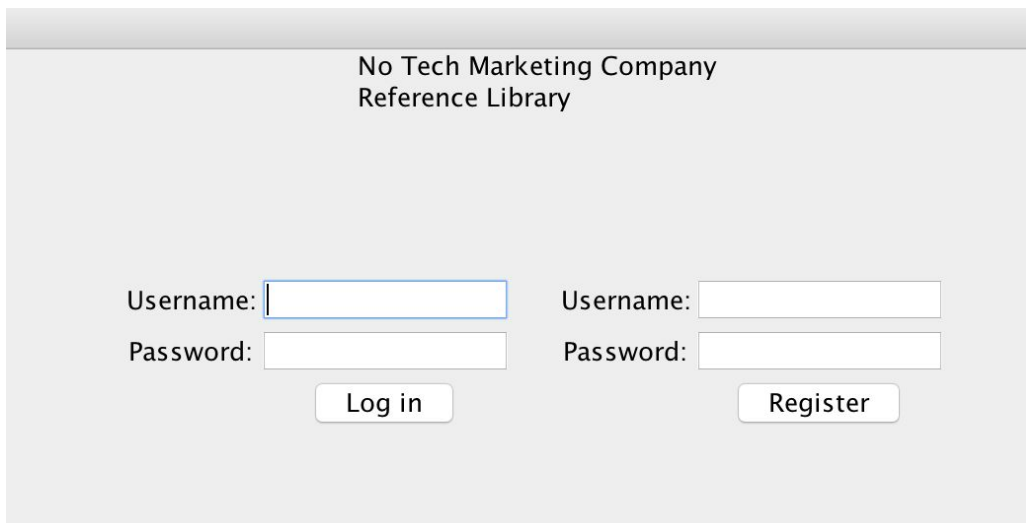
1. Load up the software on your computer by running it from the **Library class**.
2. Register a new account or login with an existing one
3. You can now search for books or view your account
  - \*Managers have other privileges as well.
4. Logout once finished

### Main Scenarios of Use

- Viewing book information such as subject and author
- Renting books out to read
- Renewing or returning books that have been checked out
- Obtaining valuable research/reference material

# Login and Register Page

The login and register page is the first page seen upon starting up the software. If you are a new user, focus your attention to the username and password entry fields above the “Register” button. To create a new account, enter the desired username and password into these fields and click on the “Register” button. If you already have an account, enter your username and password into the appropriate fields above the “Login” button.



The screenshot shows a web interface for "No Tech Marketing Company Reference Library". It features two distinct login/register sections side-by-side. The left section is for existing users, with fields for "Username:" and "Password:" and a "Log in" button below them. The right section is for new users, with fields for "Username:" and "Password:" and a "Register" button below them. The interface has a light gray background and a darker gray header bar.

No Tech Marketing Company  
Reference Library

Username:  Password:

Log in

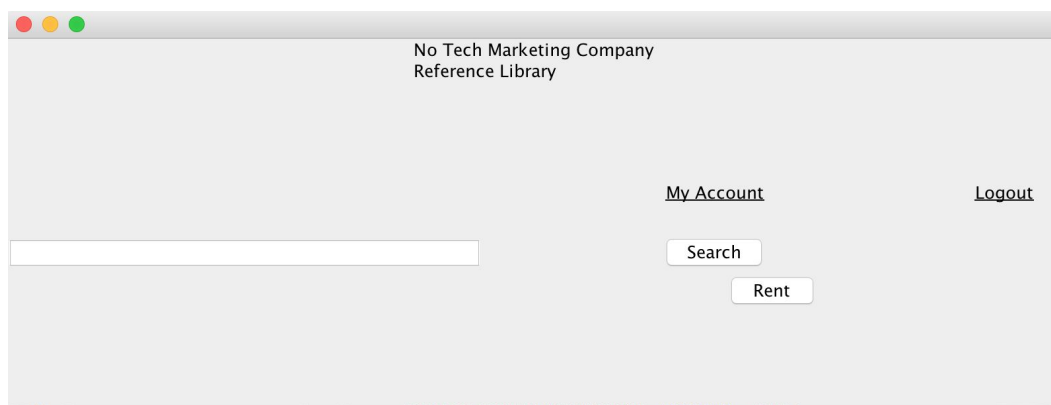
Username:  Password:

Register

# Search Page

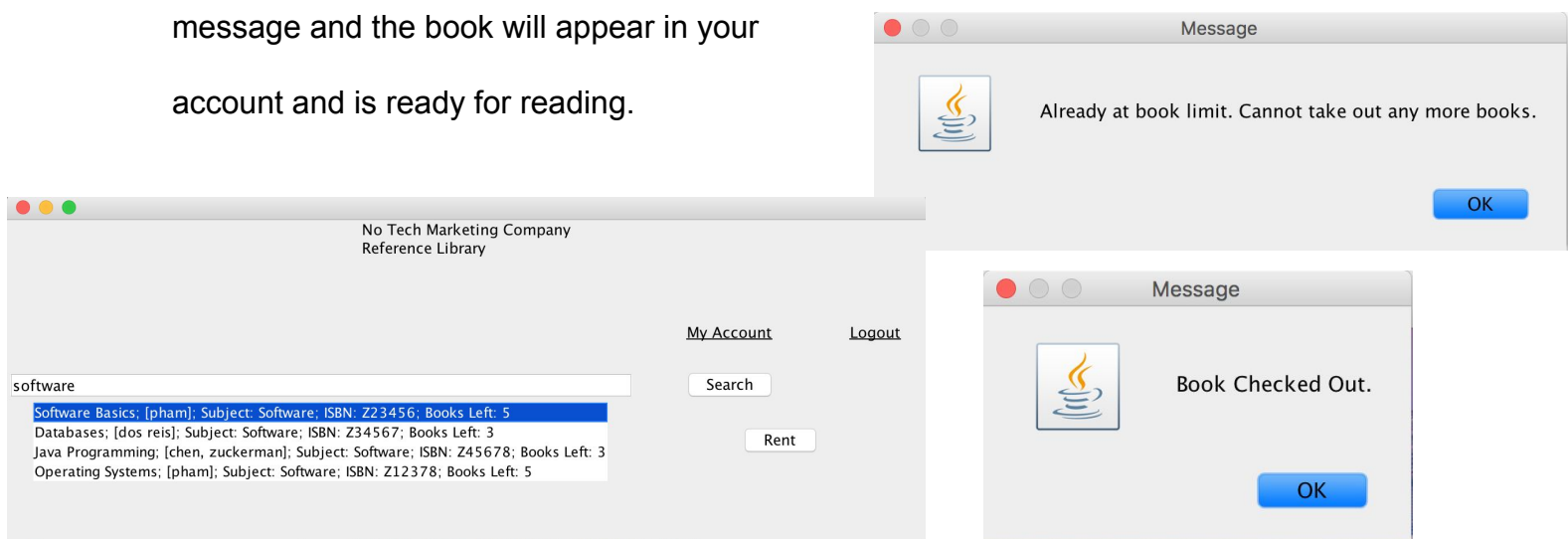
The search page, which is seen after logging in, allows you to search the available books. In order to find your desired book, either enter the title of the book, name of the author, or the ISBN into the search field and click on the “Search” button. This loads a list of relevant books that can be selected and rented.

You can also navigate to your account page or logout from this page.



## Selecting and renting a book

From the search page, a book can be selected for rent, provided your account does not have too many books taken out already. The default book limit is 3, but this can be changed your library manager. Once rented, you will get a confirmation message and the book will appear in your account and is ready for reading.



# Account Page

The account page allows you to view the books you have checked out, as well as allow you to read, return or renew books. You can also navigate back to the search page or logout.

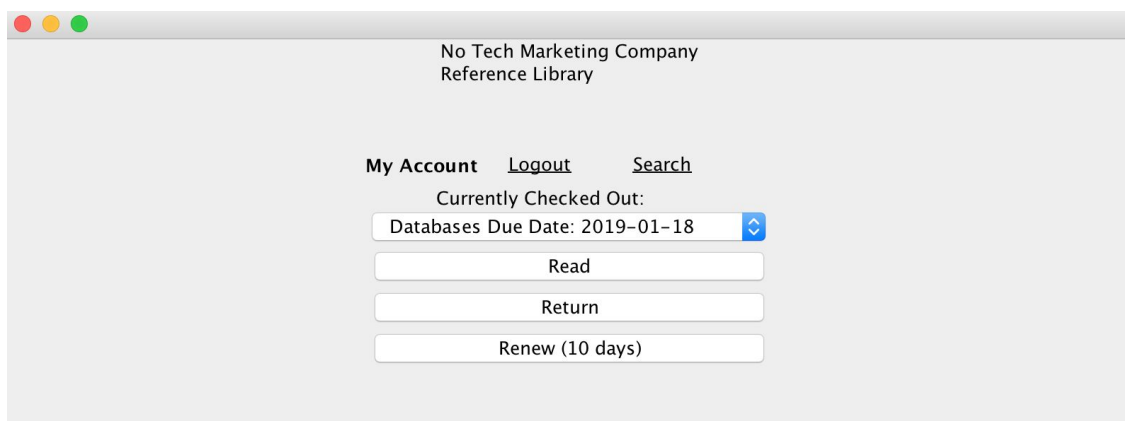
If you are logged in as a manager you can also access the manager page through the accounts page.

## Viewing Checked Out Books

On the account page there will be a drop down menu of all the books you currently have checked out and their due dates. You can select one and perform three actions on it: read, return and renew with the corresponding buttons.

## Read, Return and Renew

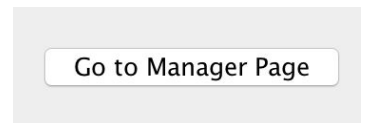
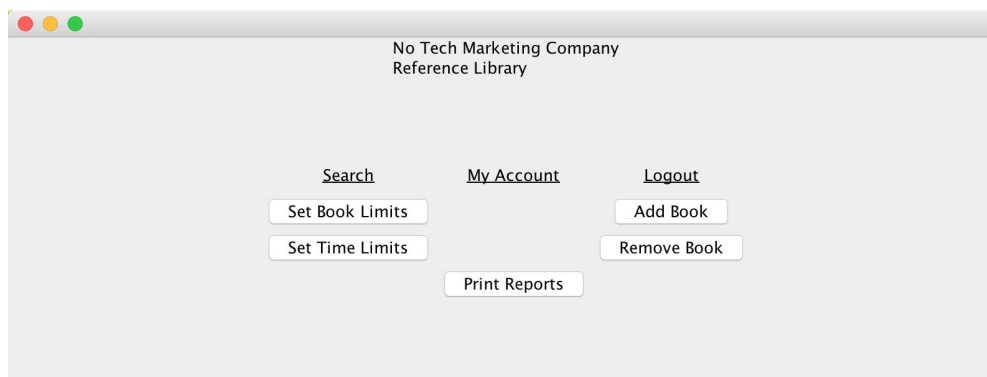
If you wish to return a book that has been checked out under your account, select the desired book from the drop down menu and simply hit the “Return” button. If you wish to keep a book for longer, select the desired book from the drop down menu and simply hit the “Renew” button and the book will be renewed for 10 more days. Books under your account can be read, returned, or renewed at any time from your account page.





# Library Manager Page

Logging on as a manager will allow you to use all the same functionalities of the library as a normal user, but with some additional privileges. The privileges include, adding and removing books, printing reports, changing book limits, and changing time limits. These can all be accessed through the Library Manager Page that you can get to from your accounts page. You will also be able to navigate to the Search page, the Account page, and you will be able to log out from this page.



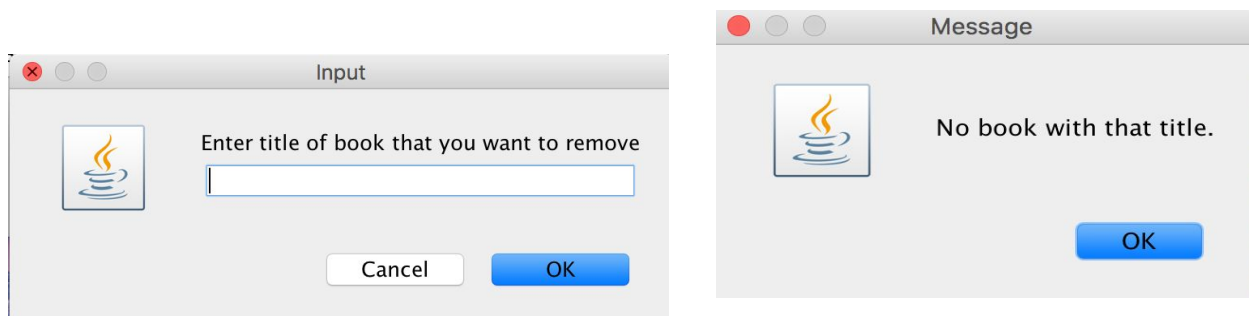
## Add Book

When the Add Book button is clicked you will be prompted to enter title, number of authors, authors names, subject, as well as other information about the book you wish to add to the library. Once done the book will be added to the library and can be searched for and rented.

A small dialog box titled "Input" with a light gray background and a standard macOS-style title bar. It features a small icon of a book with a flame on the left. The main text is "Enter title of the book:" followed by a text input field. At the bottom, there are two buttons: "Cancel" and "OK".A small dialog box titled "Input" with a light gray background and a standard macOS-style title bar. It features a small icon of a book with a flame on the left. The main text is "Enter number of authors:" followed by a text input field. At the bottom, there are two buttons: "Cancel" and "OK".A small dialog box titled "Input" with a light gray background and a standard macOS-style title bar. It features a small icon of a book with a flame on the left. The main text is "Enter authors:" followed by a text input field. At the bottom, there are two buttons: "Cancel" and "OK".A small dialog box titled "Input" with a light gray background and a standard macOS-style title bar. It features a small icon of a book with a flame on the left. The main text is "Enter subject:" followed by a text input field. At the bottom, there are two buttons: "Cancel" and "OK".A small dialog box titled "Input" with a light gray background and a standard macOS-style title bar. It features a small icon of a book with a flame on the left. The main text is "Enter page count:" followed by a text input field. At the bottom, there are two buttons: "Cancel" and "OK".A small dialog box titled "Input" with a light gray background and a standard macOS-style title bar. It features a small icon of a book with a flame on the left. The main text is "Enter ISBN:" followed by a text input field. At the bottom, there are two buttons: "Cancel" and "OK".

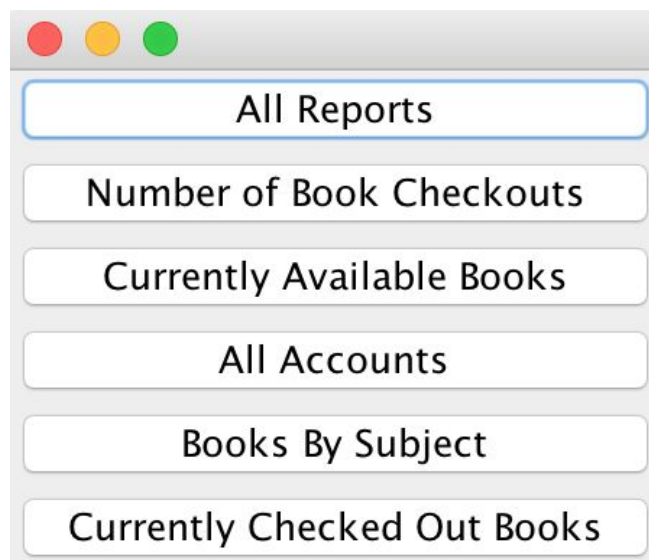
## Remove Book

When the Remove Book button is clicked you will be prompted to enter the title of the book you wish to remove. If there is no book with that title you will be notified. Once that is done the book will be removed from the library and can no longer be searched for or rented. However, if the book is currently rented by a user the book will still be accessible to them until their due date is up.



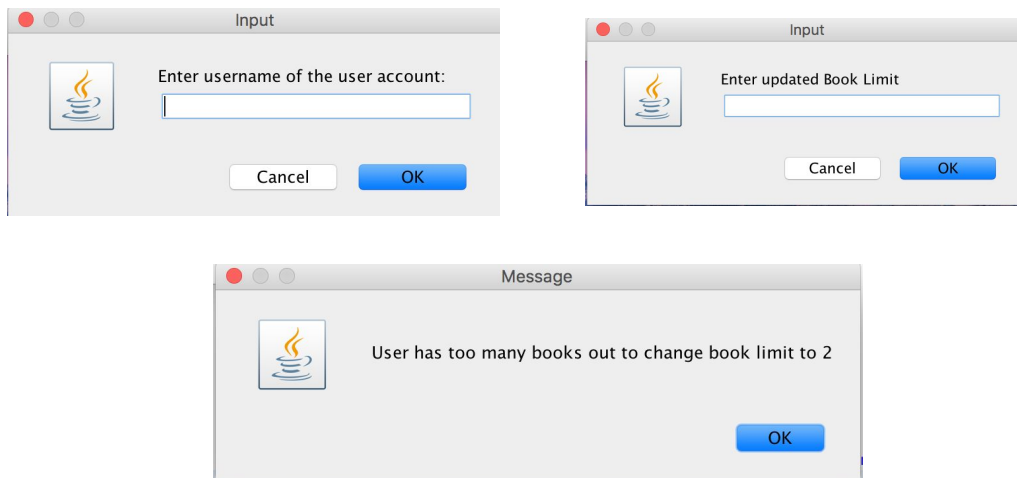
## Print Reports

When the Print Reports button is clicked a new window will appear that will allow you to choose which report you would like printed. You can select from: “All Reports”, “Number of Book Checkouts”, “Currently Available Books”, “All Accounts”, “Books By Subject”, and “Currently Checked Out Books”. When you select which one you would like, that report will be generated and will be saved as a text file to your computer.



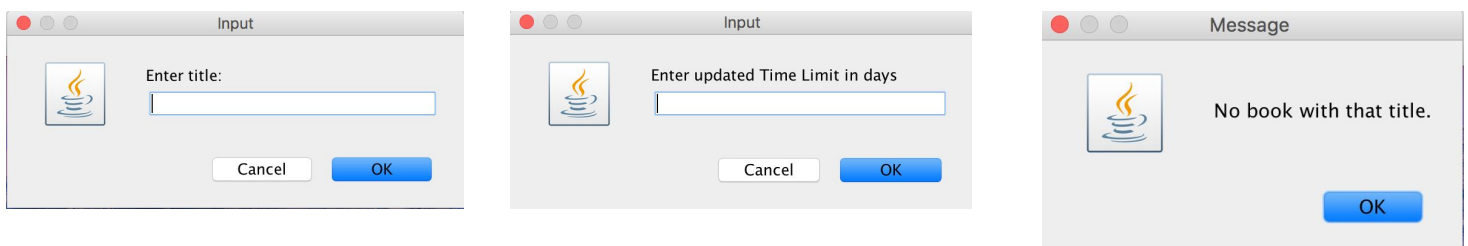
## Set Book Limits

When the Set Book Limits button is pressed you will be prompted to enter the username and the new book limit you would like to set for that user. If a user doesn't exist with that username you will be notified. If the user already has or more than the amount of books that you would like to set the limit to, you will be notified and you will not be able to change their book limit until the amount of books they have checked out is less than or equal to the number you wish to change it to.



## Set Time Limits

When the Set Time Limits button is pressed you will be prompted to enter the book title and new time limit you would like to set for that book. If no book exists with that title you will be notified. \*Note that due dates of already checked out books will not change when you change the time limit. Only future check outs of that book will be affected.



## Logout

Once you are done with your library session, it's good practice to logout of your account in order to prevent others from using it without prior consent. This can be done from the Search page, the Account page, and, if you are a manager, the Manager page.

# Maintenance Guide

In the Group E Project.zip file you will find a folder labeled “src”. In this folder you will be able to access the source code which is documented. There are 8 java classes which are as follows: Library.java, Page.java, Login.java, Main.java, Account.java, Manager.java, UserAccount.java, and Book.java. In the JavaDoc.zip file you will find all of the Java Documentation html files that can be opened in a web browser. This describes each class along with its constructors and methods.

# Test Information

The software was tested in eclipse by checking to make sure each feature of the reference library worked as expected. We registered accounts and made sure we could log back in with those new accounts. We made sure files could be read into the program as well as written back out to be able to keep changes made within the library after the system is shut down and opened again. We made sure that each user had a unique account page, and the library manager had an extra feature on their account page that took them to a manager page. We also tested to make sure that reports printed correct information and that the library manager was able to make changes to the reference library.

# Unfinished Work

One thing that was unfinished was the search filter as the functionality of it was not able to be completed. Also, a cart for checking out multiple books at a time was also something that did not make it into the final software as it made the system over complicated. Since we didn't have actual ebooks, the read button on the account page is not functional. There are some issues with the GUI where some pages (login page and the main search page) don't refresh to their original form when a new user signs in.