GUIDE ON USING PYTHON:
LIBRARY MANAGEMENT SYSTEM

We educate for life
Don Bosco Educational Centers- Philippines
Facebook, Twitter & Instagram|dbecphilippines
www.one-bosco.org

Python for Beginners

Welcome! Are you completely new to programming? If *not* then we presume you will be looking for information about why and how to get started with Python. Fortunately an experienced programmer in any programming language (whatever it may be) can pick up Python very quickly. It's also easy for beginners to use and learn, so jump in!

IMPORTANT!

In order to make optional use of your system, it is important that you take the time to read through this manual before you begin.

We educate for life
Don Bosco Educational Centers- Philippines
Facebook, Twitter & Instagram|dbecphilippines
www.one-bosco.org

Overview

This project proposed the development of a Library Management System using the Python Programming Language.

Specifications

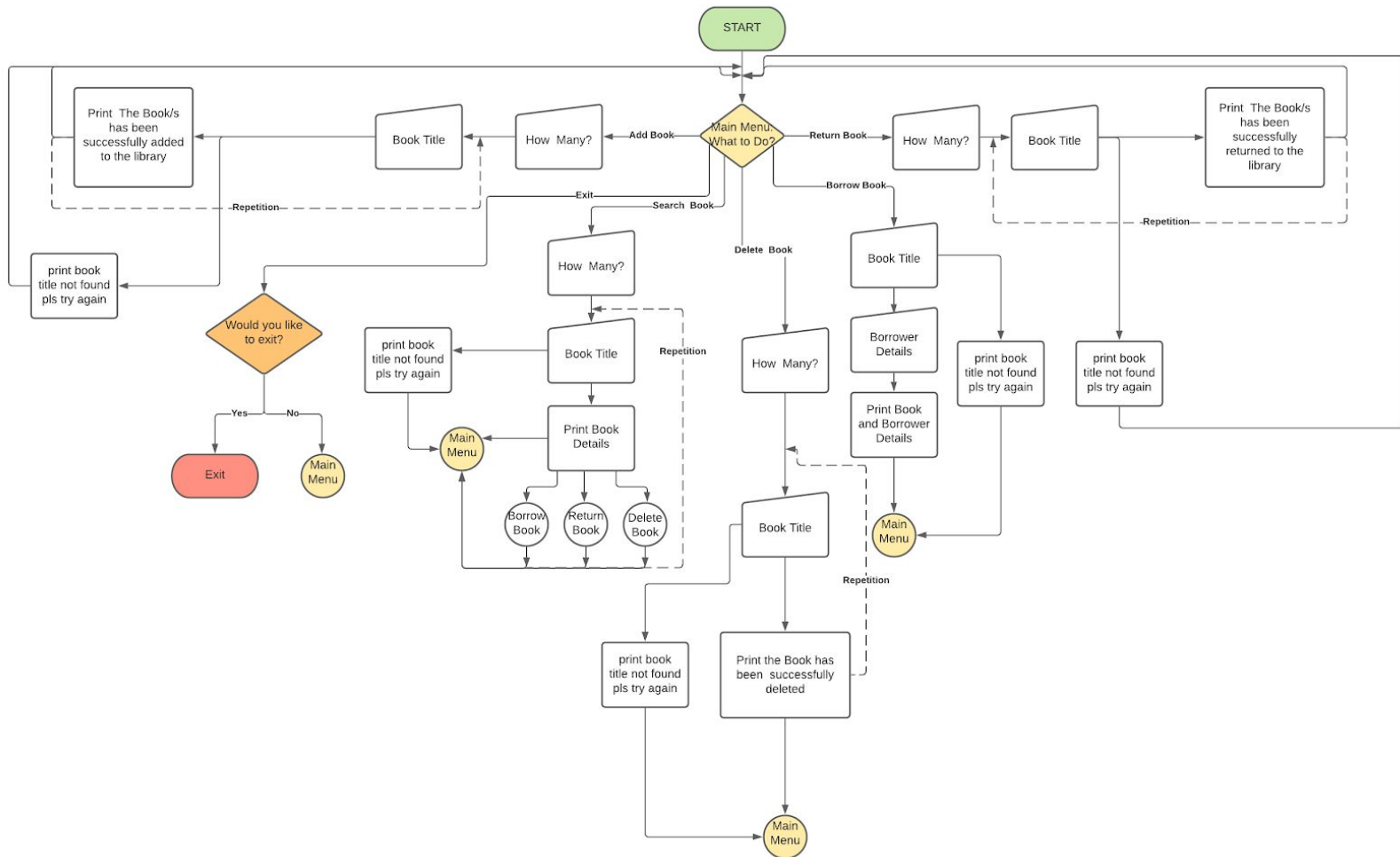The proposed Library Management System program shall have the following specifications:

1. Inputting of Book Title, Book Author, Book Publishing Date, Quantity of Book Copies, and Custom Location that is set by the user (you) in addition to respective data files.
2. Changing details of the specified book such as its title, author, publishing date, number of copies, and location in the library.
3. Displaying of datas specified above for letting the user (you) know the availability of its respective book.
4. Borrowing of the specified book and returning of the book, with the date borrowed/returned recorded respectively.
5. Deletion of the relative datas pertaining to the specified book.

We educate for life
Don Bosco Educational Centers- Philippines
Facebook, Twitter & Instagram|dbecphilippines
www.one-bosco.org

Flowchart

IPO Chart

plYellowProject

START

Main Menu: What to Do?

Add Book → How Many? → Book Title → Print The Book/s has been successfully added to the library → Repetition

print book title not found pls try again

Would you like to exit?

Yes → Exit

No → Main Menu

Exit

Search Book → How Many? → Book Title → Print Book Details → Repetition

print book title not found pls try again → Main Menu

Borrow Book / Return Book / Delete Book

Delete Book → How Many? → Book Title → print book title not found pls try again / Print the Book has been successfully deleted → Repetition → Main Menu

Borrow Book → Book Title → Borrower Details → Print Book and Borrower Details → Main Menu

print book title not found pls try again

Return Book → How Many? → Book Title → Print The Book/s has been successfully returned to the library → Repetition

print book title not found pls try again

We educate for life
Don Bosco Educational Centers- Philippines
Facebook, Twitter & Instagram|dbecphilippines
www.one-bosco.org

IPO Chart (Input-Process-Output)

Input	Process	Output
Book Title	Read Book Details	Book Details (Add Book, Availability, based on Specs)
Check Borrowing Date	Print Book Details	Bookshelf Details (Location), Copies Available
Search Existing Book	Locate Book by Bookshelf	Delete Book
Return Book	Read Book Borrowing Date	Book Borrowing Date
Locate Book	Print Library Function	Return Book
Delete Existing Book	Read Book Return	
	Read Book Delete	

We educate for life
Don Bosco Educational Centers- Philippines
Facebook, Twitter & Instagram|dbecphilippines
www.one-bosco.org

➢ Step 1
  ○ Choose from the following commands
    ■ display
    ■ add
    ■ change
    ■ borrow
    ■ return
    ■ delete
    ■ quit
➢ Step 2
  ○ Specify how many repetitions for this action

➢ * If chosen commands is 'display'
➢ Step 3
  ○ Input the specified book title
➢ Step 4
  ○ Press any key to continue

➢ * If chosen commands is 'add'
➢ Step 3
  ○ Input the necessary information
    ■ Book Title
    ■ Book Author
    ■ Published Date (MM/DD/YYYY)
    ■ What shelf shall it be stored
    ■ How many copies of the book will be available
➢ Step 4
  ○ Press any key to continue

We educate for life
Don Bosco Educational Centers- Philippines
Facebook, Twitter & Instagram|dbecphilippines
www.one-bosco.org

- ➢ * If chosen commands is 'change'
- ➢ Step 3
    - ○ Enter command
        - ■ 'B' for Book Title
        - ■ 'A' for Book Author
        - ■ 'D' for Published Date (MM/DD/YYYY)
        - ■ 'S' for specifying the location
        - ■ 'N' for number of books
- ➢ Step 4
    - ○ Press any key to continue

- ➢ * If chosen commands is 'borrow'
- ➢ Step 3
    - ○ Input the chosen book to be borrowed
        - ■ If there are no more copies of the specified book, a message will be shown
- ➢ Step 4
    - ○ Press any key to continue

- ➢ * If chosen commands is 'return'
- ➢ Step 3
    - ○ Input the chosen book to be returned

- ➢ Step 4
    - ○ Press any key to continue

We educate for life
Don Bosco Educational Centers- Philippines
Facebook, Twitter & Instagram|dbecphilippines
www.one-bosco.org

➢ * If chosen commands is 'delete'
➢ Step 3
- ○ Input the chosen book that is to be deleted

➢ Step 4
- ○ Press any key to continue

➢ * If chosen commands is 'quit'
- ○ A message will be shown after using the program

➢ * If 'KeyError' is shown
- ○ The book is currently not available
- ○ Check for any typographical errors
- ○ If none then,
    - ■ You might have to add this book in the library first

➢ * If 'ValueError' is shown
- ○ The input is wrong
- ○ Check your inputs and then retry
- ○ Press any key to continue

We educate for life
Don Bosco Educational Centers- Philippines
Facebook, Twitter & Instagram|dbecphilippines
www.one-bosco.org

This project is made possible by:

P.D.C.Ponciano, E.M.M.Serrano, D.E.G.Ty, F.S.Tale
plYellowProject
Don Bosco Technical College
Mandaluyong City