

Class: Concepts of Programming

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Section: 002

File: Project Prototype.pdf

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1. Project Title:

Library Management System

2. Objective:

To maintain a library database using the File input/output method with book title, author, and availability status, which will also allow adding books, viewing all books, and borrowing.

3. Prototype Overview (Modules)

Module	Description
Display Module	Displays the options to the user
Register Module	Add a new book and author
Check In/Out Module	lets the user check a book in/out, shows availability
View Module	Shows all the books in database

4. Sample Prototype Screens

```
[]=====[]  
| |  
| [Library Management System] |  
| |  
| |  
[]=====[]
```

----- **OPTIONS** -----

[A.] Register New Book

[B.] Check Book In/Out

[C.] View All Books

[D.] Close Program

----- **Registering New Book** -----

Title of Book:

Author of Book:

[]-----[]

Enter New Book Title:

Enter New Book Author:

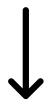
[]-----[]

[#If book already exists#]



That book is already registered to the library

[#If it's a new book#]



{newTitle}, by {Author} has been registered to the library

Checking in/out section:

Checking in or out?

[1.] In

[2.] Out

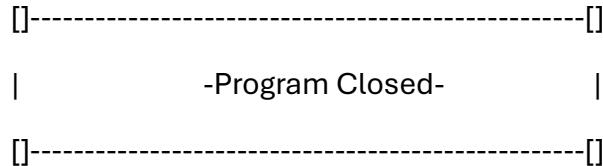
[3.] Neither

Viewing all the books:

LIBRARY CONTENTS

All books

When the user goes with the Close Program option



5. Tools used

- **MS Word** → for UI mockups
- **Python** → for creating and testing program