

**Class: Concepts of Programming**

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**Section: 002**

**File: Project Prototype.pdf**

**Group Members: Grainger, Aurynn, Dhruv**

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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:

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[]-----[]

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:

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Checking in or out?

[1.] In

[2.] Out

[3.] Neither

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Viewing all the books:

----- **LIBRARY CONTENTS** -----

All books

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When the user goes with the Close Program option

[]-----[]

|                -Program Closed-                |

[]-----[]

## 5. Tools used

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