

# ***A MINI PROJECT ON LIBRARY MANAGEMENT SYSTEM***



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# ABSTRACT

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- The main objective of the mini project library management system is to provide service to the library in maintaining records of the books present in library.
- It can perform some operations adding a book , searching a book , deleting a book record , updating a book record ,issuing a book record , viewing a book record.
- Each book holds details like category , book name , author , id , quantity , price ,rack no,
- Each issued book contains details like student name , student roll no , issued date month and year , return date , month , year .
- The records here are maintained in files .

# I.INTRODUCTION

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- Generally , it is very difficult to maintain records of books present in library such as book category , name , quantity , etc., physically in a book.
- A digitalized maintainance of records would be a best solution to make the task easier .
- In order to store the information of books present in library and performing the more operations adding an additional benefits , a library management system is designed.
- This project works with objective of providing a best platform for the maintenance of information regarding books.

# OBJECTIVE

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- The main objective of the project library management system is to provide a easy access for the admin to maintain the details of books and record of availability of books present in the library.
- This can handle adding , editing, deleting, viewing, issuing, searching operations.

## CONCEPTS USED :

- **FILES** : files in this project are used to store the records of books
- **STRUCTURES** : these are used to hold the details of the books present such as category , name , author , price .....etc.,
- **FUNCTIONS** : each module operations is designed using each function for specific module

# REQUIREMENTS

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MINIMUM HARDWARE REQUIREMENT HARDWARE:

## USED

OPERATING SYSTEM : Windows/Linux

RAM : 4GB

PROCESSOR : i3

HARDDISK : 100 MB

MINIMUM SOFTWARE REQUIREMENT :

Linux environment

GCC

vi editor



## 2. MODULES IN THE PROJECT

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- **ADDING BOOKS**
- **SEARCHING BOOKS**
- **UPDATION OF BOOKS**
- **VIEWING OF BOOK LIST**
- **DELETION OF BOOKS**
- **ISSUING BOOKS**

# MODULE-I (ADDITION OF BOOKS)

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- In this module the addition operation can be done which saves the added book details in the file holding each and every record of books entered
- INPUT : option the specifies to which branch the book belongs and the details of book like book title ,author , price , quantity , rack.no .
- OUTPUT :the details given as input is stored in a file.



# ADDING BOOKS

---

```
0.exit
Enter your choice
+++++
1
Categories are :
1.Computer
2.Electronics
3.Electrical
4.Civil
5.Mechanical
6.Architecure
Enter the category number
1
Enter the book ID
101
Enter the book name
Drillingc
Enter the Book Price
120.4
Enter the author name of the book
Richard
Enter the quantity
4
Enter the rack number
2
Do you want to enter any other record of a book
1.Yes 0.no0
```

## 2.1 ADDING BOOKS

## MODULE-2(SEARCHING BOOKS)

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- In this module the books entered into record is searched whether it is present in the book list if present returns the book details to standard output screen.
- INPUT : book name to be searched is given as a input
- OUTPUT : if input book name is present in the list  
the book details are displayed , else an searched book  
doesn't exist message is displayed.

# SEARCHING A BOOK

---

```
0.exit
Enter your choice
+++++
3
Enter the Book title to search
Drillingc

-----
category is :: Computer
Book ID :: 101
Book Title :: Drillingc
Book Price :: 120.400002
Book Author :: Richard
Number of Books :: 4
Book rack number :: 2
-----
```

## 2.2 SEARCHING A BOOKS

## MODULE-3(UPDATION OF BOOKS)

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- In this module the updation or editing of book details present in the book list is done.
- INPUT : book name is given as an input for which the details need to be updated.
- If present then the details you wanted to update is given as input
- OUTPUT : the output of this module is , updations of  
details of book present is saved in file if the input  
book name entered is present in the book list , else a  
error message is displayed.

# EDITING A BOOK

```
6.Issue a Book
0.exit
Enter your choice
+++++
4
Enter the book title to update
Drillingc
The book catogery is Computer
enter the book ID
101
enter the book name
Drillingc++
Enter the Book Price
123.4
Enter the author name of the book
RichardThies
Enter the quantity
3
Enter the rack number
1
```

## 2.3 EDITING A BOOK



## MODULE-4(VIEWING OF BOOKS)

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- In this module the book details present in the record is viewed at the standard output screen .
- INPUT : here no input is taken for this module after the selection of this operation the output is displayed
- Output : the output here is the details of each and every book record entered into the list displayed on the standard output screen.



# VIEWING A BOOK

---

```
6.Issue a Book
0.exit
Enter your choice
+++++
2

Records are ::

-----
category is :: Computer
Book ID :: 101
Book Title :: Drillingc
Book Price :: 120.400002
Book Author :: Richard
Number of Books :: 4
Book rack number :: 2
-----
```

## 2.4 VIEWING A BOOK

## MODULE-5(DELETION OF BOOK)

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- In this module the entire record of specified book given as input is deleted from the list.
- INPUT : the input here is the name of the book you wanted to delete
- Output :if the book name entered is present in book list the file content is updated by deleting the existing book record , if not an error message is displayed allowing to delete further more if u want.

# MODULE-6(ISSUING OF BOOKS)

---

- In this module performs 4 operations say,
- Issuing a book
- Viewing issued book
- Deleting issued book
- Searching issued book
- INPUT : option for specific operation to perform is given as input

I. takes book name , student name and student roll.no date of book issued as input

# MODULE - 6

---

2.no input

3.takes book name as input

4.takes book name as input

OUTPUT : 1.stores the details entered into a file'

2.views all the books and details present in the record

3.delets the book name entered and updates the file

4.displays the details of specific book searched if present



# ISSUING A BOOK

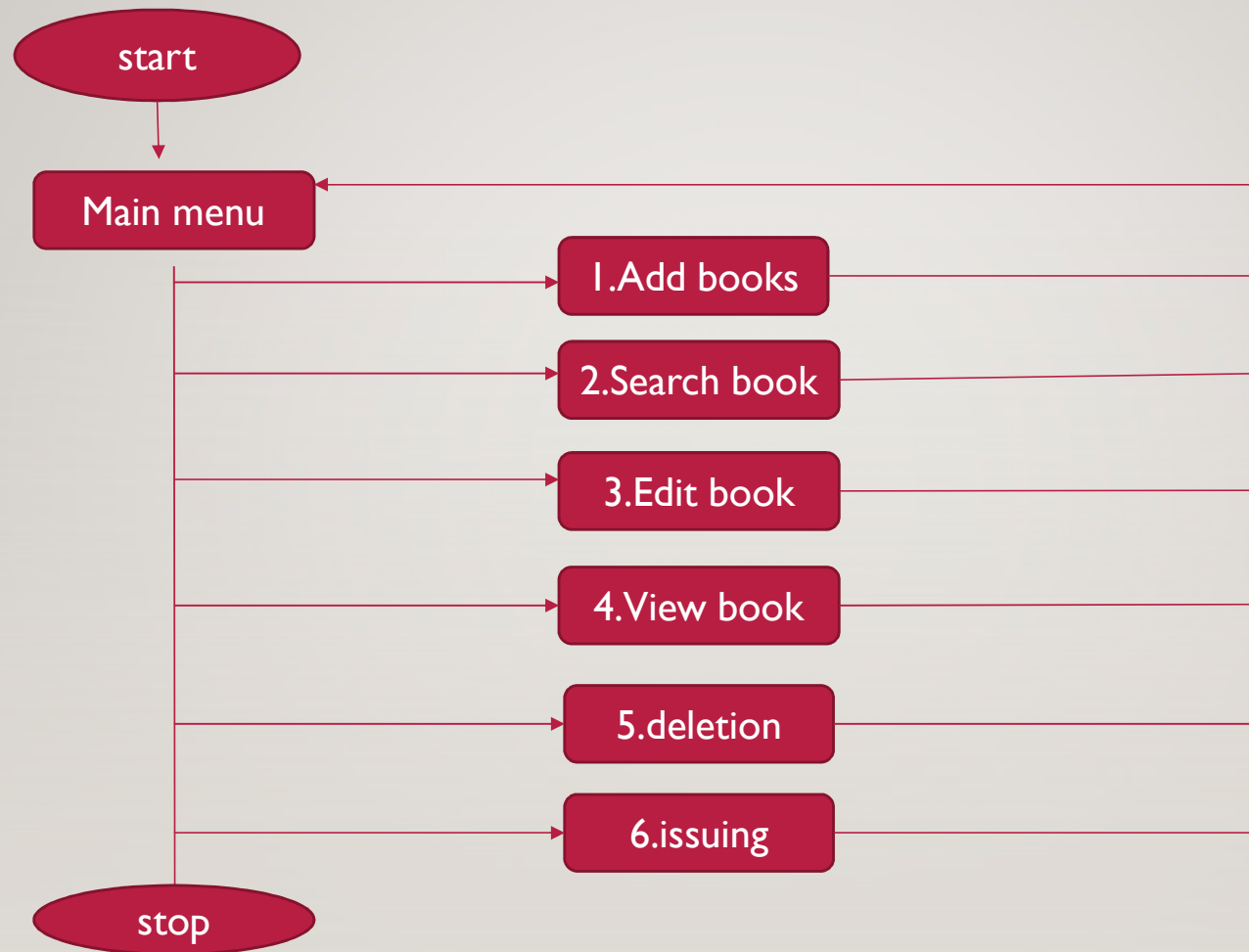
---

```
+++++
1.Enter a record
2.view all records
3.Search a book record
4.Update a book record
5.Delete a book record
6.Issue a Book
0.exit
Enter your choice
+++++
6
=====
1.Issue a Book
2.View Issued Books
3.Search Issued Books
4.Remove a Issued book
0.exit
=====
Enter your choice
```

## 2.6 ISSUING A BOOK

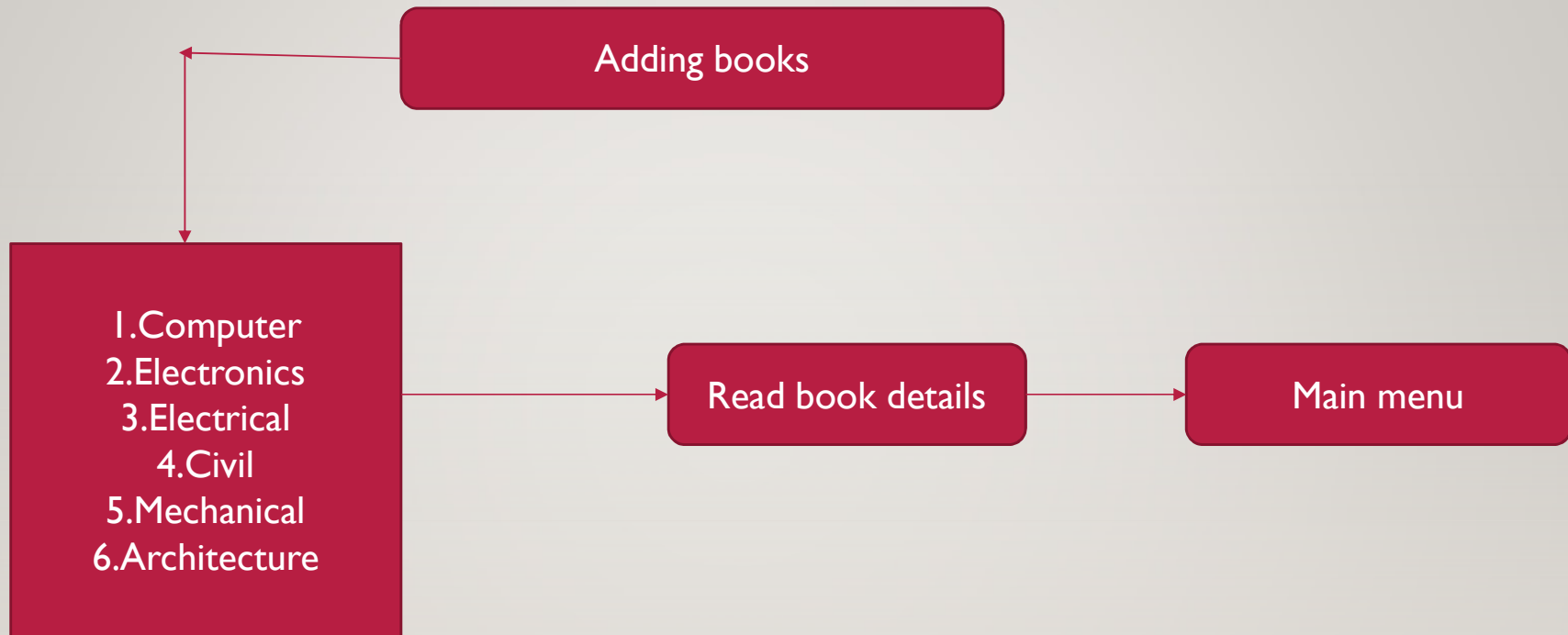
# FLOW CHART: MAIN MENU

20

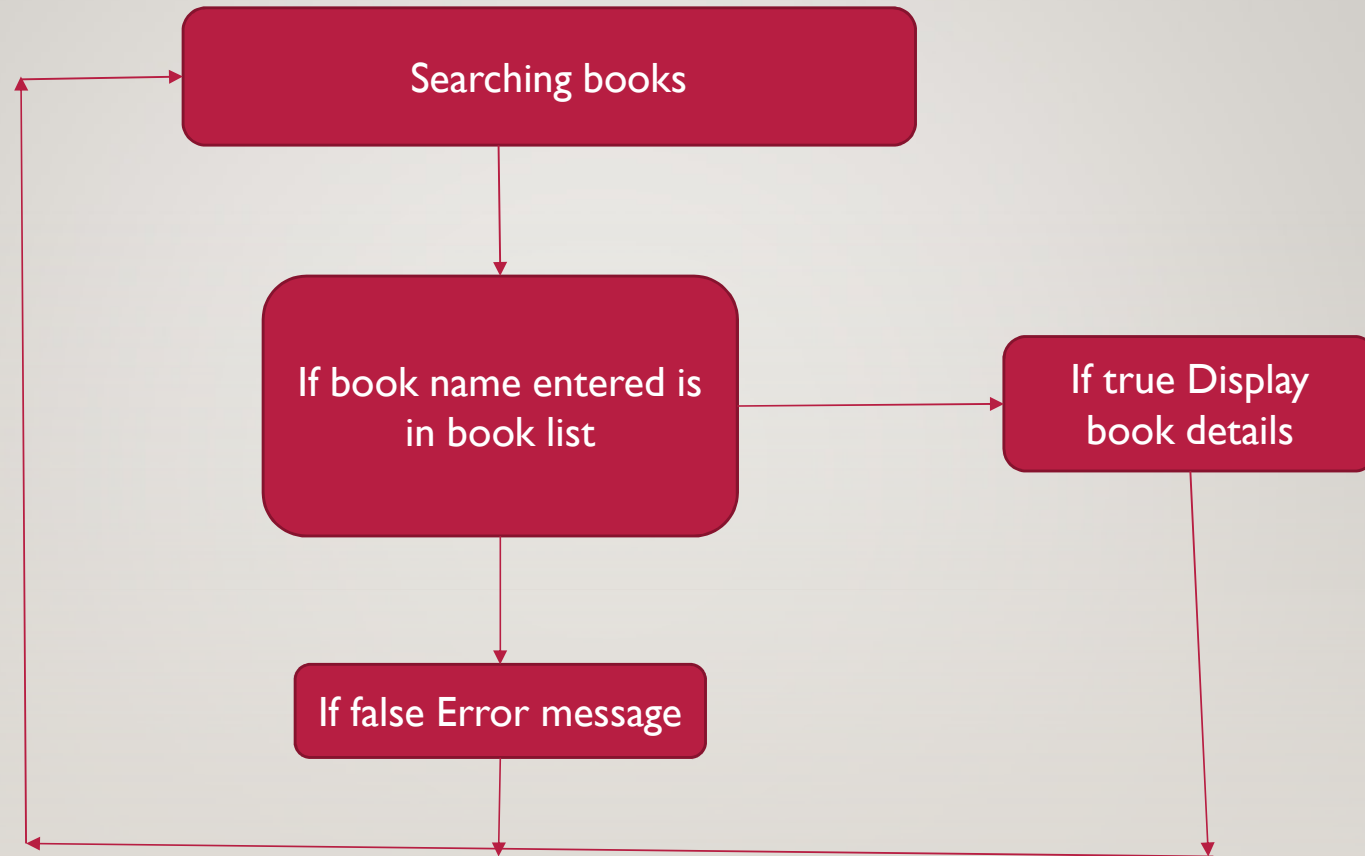




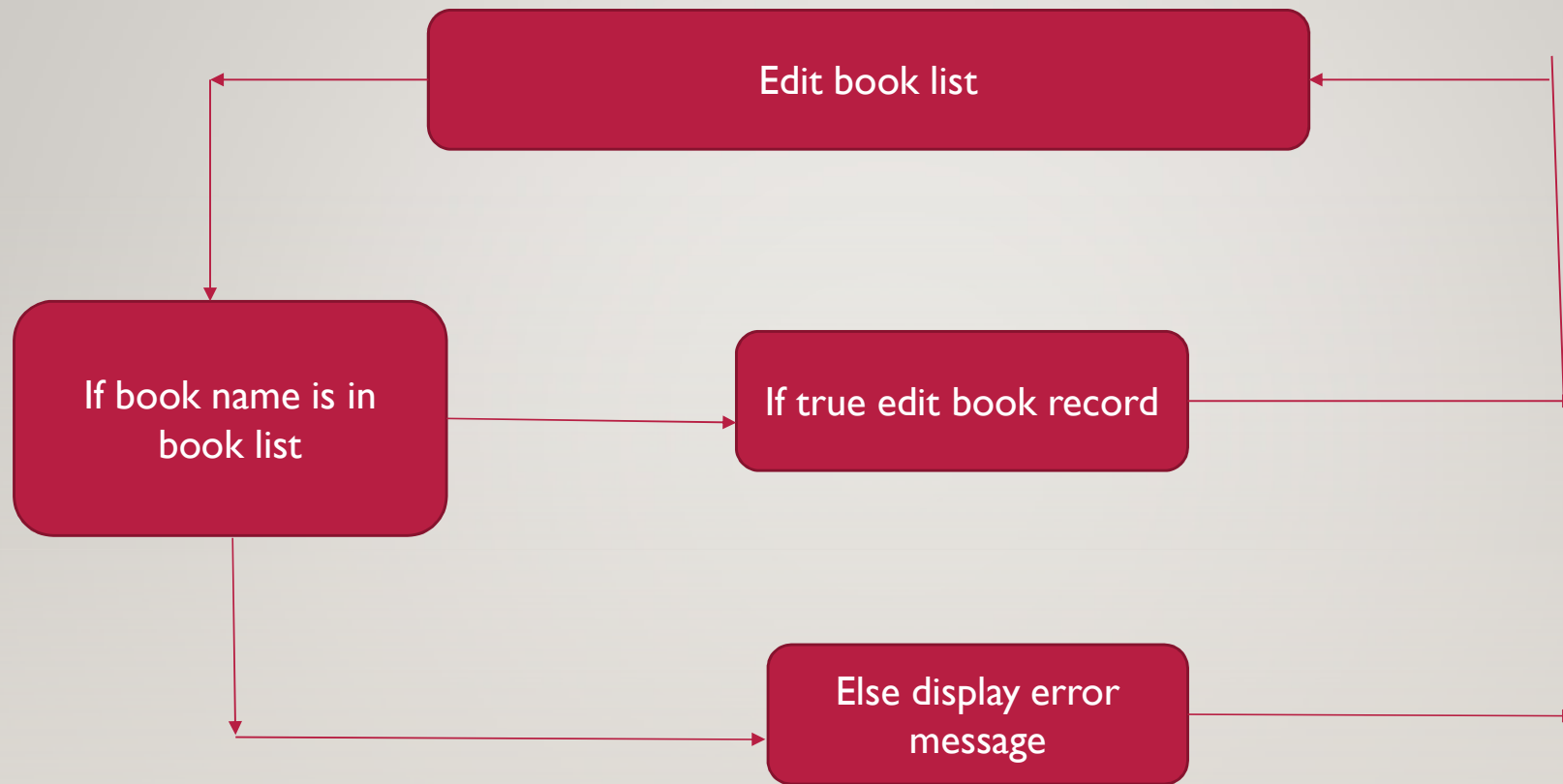
# FLOW CHART FOR ADDING BOOKS:



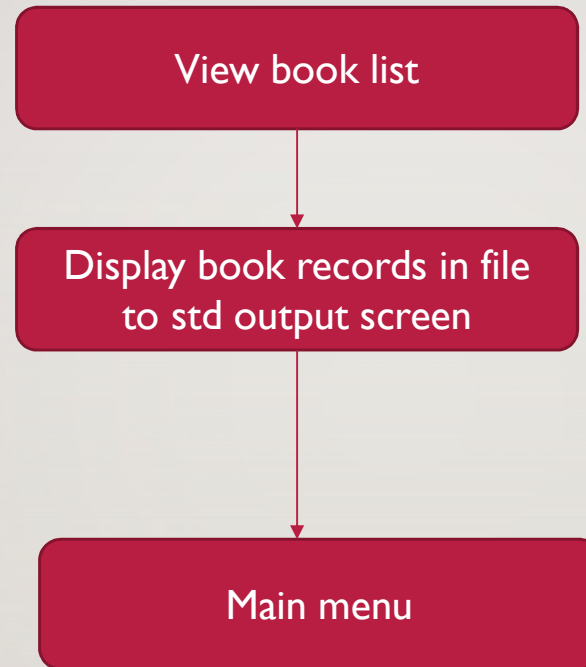
# FLOW CHART FOR SEARCHING BOOKS



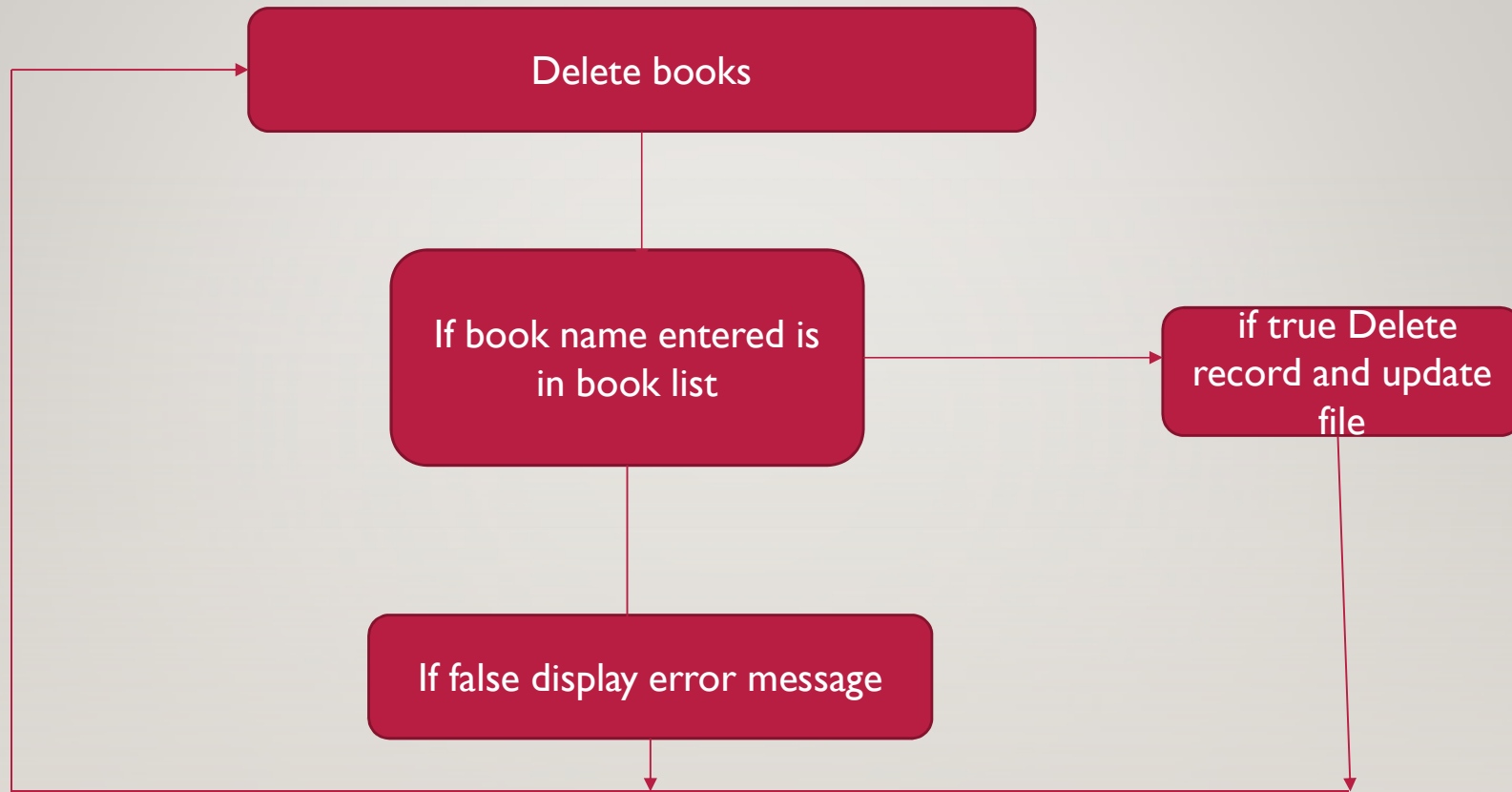
# FLOWCHART FOR EDIT BOOKS



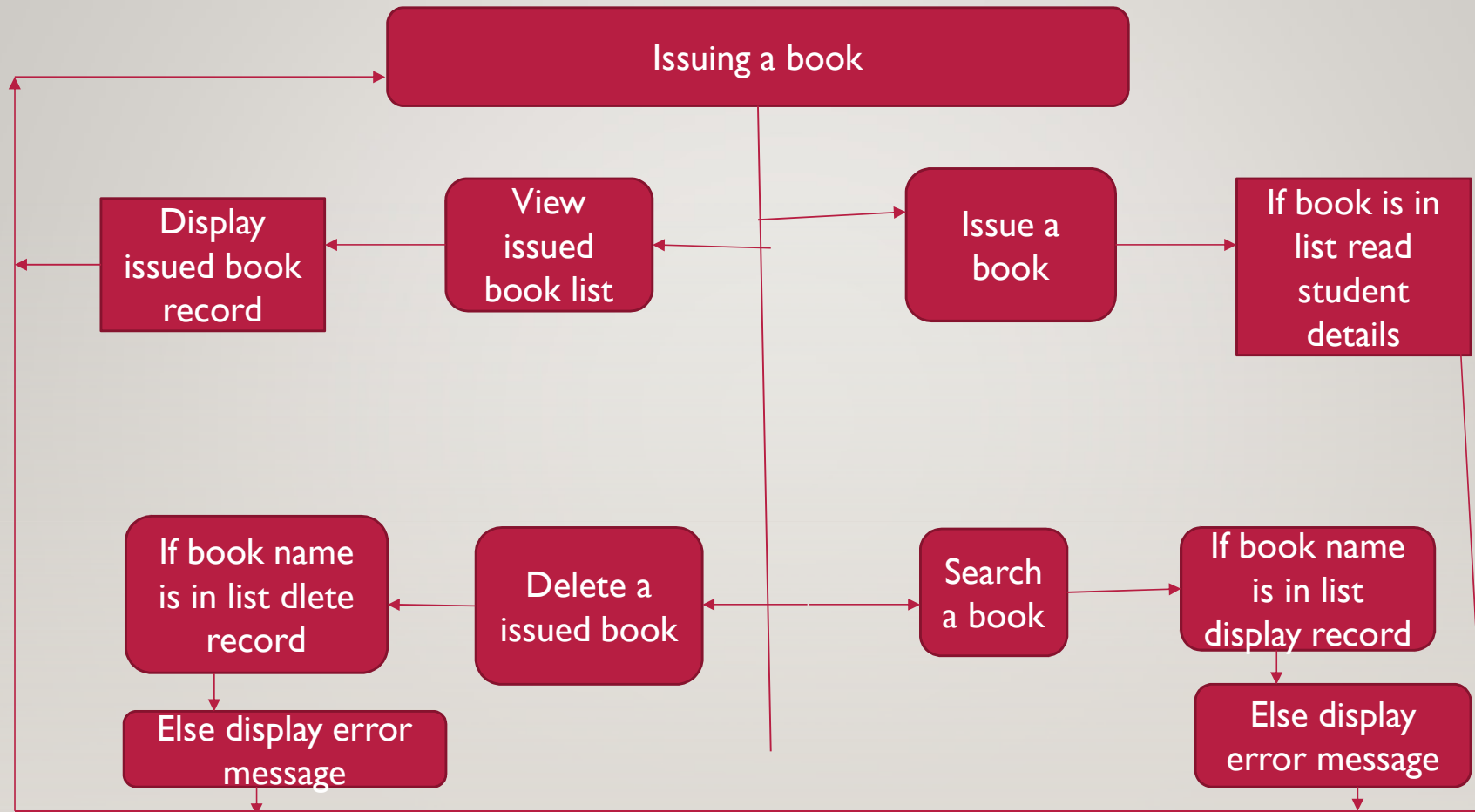
# FLOWCHART FOR VIEW BOOKS



# FLOWCHART FOR DELETE BOOKS



# FLOWCHART FOR ISSUE BOOKS





# ROLES FOR BATCH MEMBERS

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## ROLL.NO

I7I2IAI252

I7I2IAI253

I7I2IAI254

I7I2IAI255

I7I2IAI256

I7I2IAI257

I7I2IAI258

I7I2IAI259

I7I2IAI260

## ROLES

- ADD BOOKS
- DELETE BOOKS
- DESIGNER& ANALYSING
- SEARCH BOOKS
- ISSUE BOOKS
- DESIGNER&ANALYSING
- VIEW BOOKS
- PROGRAM EXECUTION
- EDIT BOOKLIST

# STATUS OF THE PROJECT



Analysis  
100%



Design  
100%

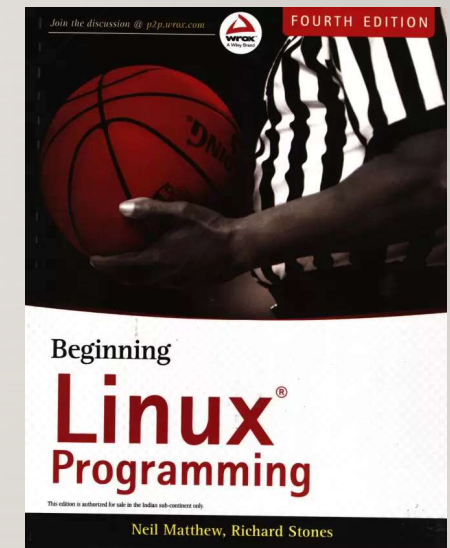


Coding  
100%

# REFERENCES

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- BEGINNING OF LINUX PROGRAMMING.
- NEIL MATHEW AND RICHARD STONES, WILEY DREAMTECH ,  
FOURTH EDITION , 2008.
- PROGRAMMING WITH C LANGUAGE, BALAGURUSWAMY.
- **ONLINE REFERENCES : CODE WITH C**
- **SOFTWARE DOWNLOADED :**  
<https://www.ubuntu.com/#download>.



# FUTURE INFERENCES

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- The library management system mini project designed so far is more advantages for the admin to know the details and perform operations on books present in library
- In future we can update more operations that serves to be more advantageous to the user for getting information of the books present in library
- The operations may include like locking a book , claim for book , check availability.....etc.,

# CONCLUSION

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- With the project library management system we conclude that it provides a best platform for the maintenance of information regarding books present in the library.
- Taking consideration to the future references it can also provides services to the users to know the details of book , locking a book needed .....etc., operations.
- With the designing of this project the c concepts and linux concepts were revised and also the interaction and working in the linux environment is also developed





**Thank  
You!!!**

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