A PROJECT REPORT ON

"LIBRARY MANAGEMENT SYSTEM"

DEPARTMENT OF COMPUTER APPLICATION

NANDA NATH SAIKIA COLLEGE

TITABAR -785630

ASSAM

SUBMITTED BY:-

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ACKNOWLEDGEMENT

We sincerely take the opportunity to express our heartfelt thanks and gratitude to all those who extended their wholehearted co-operations, opinions and gracious hospitality to us in completing the project work successfully.

We would like to acknowledge our gratitude towards our teachers at **Nanda Nath Saikia College** under the egis of **Dibrugarh University** ,for their understanding provision of sound counsel and precious guidance. Finally ,we wish to thank our friends for their support.

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CERTIFICATE OF EXAMINATION

This is to certify that the project work "**Library Management System**" jointly submitted by Dimpi Borah , Jahnobi Saikia & Rimjim Gogoi for the 2nd semester of **PGDCA** course is a bonafide project work carried out by them under my supervision .

I wish them all success in future.

Thanks,

HOD
Deptt. of Computer Science
N.N. Saikia College

MR. NILOTTAM PODDAR

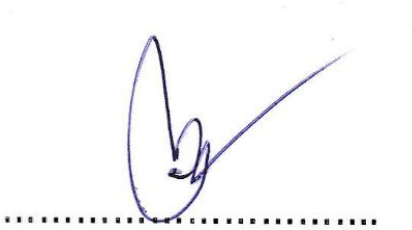
H.O.D

Department of Computer Application

N.N. Saikia College, Titabar

CERTIFICATE OF EXAMINATION

This is to certify that Dimpi Borah , Jahnobi Saikia & Rimjim Gogoi, 2nd Semester student of PGDCA discipline of **N.N. Saikia College, Titabar** have successfully submitted their project on "**Library Management System**" that was completed under the guidance of Mr. Nilottam Poddar and Mr. Pranjal Borah.



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Signature of External

PBorah

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Signature of Internal

DECLARATION

We , Dimpi Borah, Jahnobi Saikia & Rimjim Gogoi hereby declare that the project work entitled "**Library Management System**" is an authentic work carried out by us for the partial fulfillment of , 2nd semester of PGDCA of Dibrugarh University. This report has not been anywhere else for the award of any degree or diploma.

DIMPI BORAH	JAHNOBI SAIKIA	RIMJIM GOGOI
Roll No. 27220015	Roll No. 27220017	Roll No. 27220027

Contents:-

A. ***INTRODUCTION:***

1. Title of the project
2. Project Definition
3. Objectives
4. Tools used in the project
5. Data Flow Diagram
6. Data Dictionary
7. Database design
8. ER diagram

B. ***CONCLUSION***

C. ***BIBLIOGRAPHY***

A.INTRODUCTION

1. TITLE OF THE PROJECT:

The project is entitled "**LIBRARY MANAGEMENT SYSTEM**"

2.PROJECT DEFINITION:

Library management system is a software used to manage the catalog of a library. This helps to keep the records of whole transaction of the books available in the library.

3.OBJECTIVES:

Some of the basic objectives are as follows

- Keep records of the Books.
- Keep complete information of book like, Books name, Author name and publisher's name.
- Keeps track of books issued to individuals.
- Records of individuals who borrows books from the library are also kept.
- Easily manage issue and return of books.

4.TOOLS USED IN THE PROJECT:

Operating system used- windows 7

IDE used -Microsoft visual basic 2008 express edition

SERVER Used -Wamp server

Database used -phpMyAdmin

ABOUT V.B:

Visual basic is a third-generation event-driven programming language and integrated development environment (IDE)from Microsoft for its component object model(COM) programming model first released in 1991 and declared legacy during 2008.Microsoft intended visual basic to be relatively easy to learn and use. Visual basic was derived from BASIC, a user friendly programming language designed for beginners, and it enables the rapid application development(RAD) of graphical user interface(GUI) applications, access to database using data access objects, remote data objects or activeX data objects, and creation of active controls and objects.

5. DFD (DATA FLOW DIAGRAM):

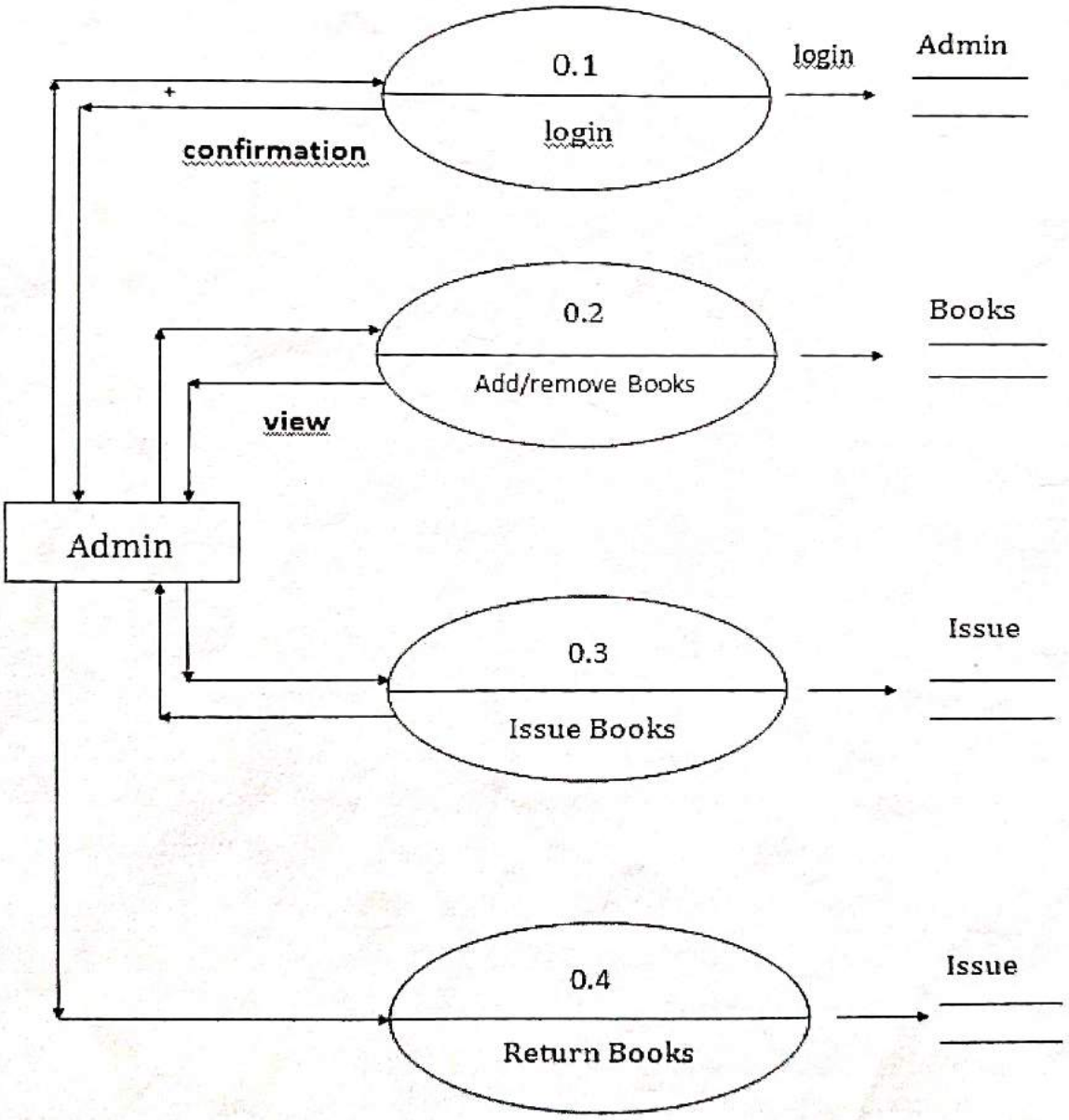
A Data Flow Diagram (DFD) is traditional visual representation of the information flows within a system. A neat and clear DFD can depict a good amount of the system requirements graphically. It can be manual, automated, or combination of both.

It shows how information enters and leaves the system, what changes the information and where information is stored. The purpose of a DFD is to show the scope and boundaries of a system as a whole. It may be used as a communications tool between a systems analyst and any person who plays a part in the system that acts as the starting point for redesigning a system.

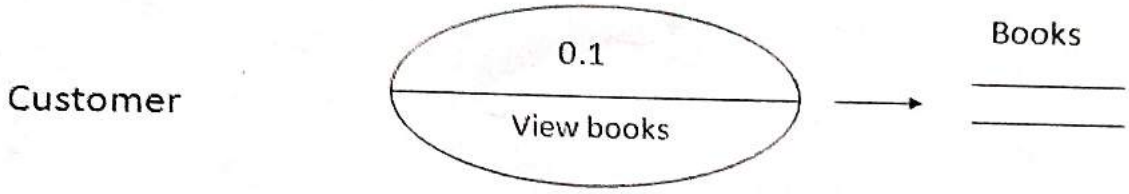
It is usually beginning with a context diagram as the level 0 of DFD diagram, a simple representation of the whole system. To elaborate further from that, we drill down to a level 1 diagram with lower level functions decomposed from the major functions of the system. This could continue to evolve to become a level 2 diagram when further analysis is required. Progression to level 3, 4 and so on is possible but anything beyond level 3 is not very common. Please bear in mind that the level of details for decomposing particular function really depending on the complexity that function.

CONTEXT LEVEL DFD

Level 1 DFD for ADMIN



Level 1 for Customer



6.DATA DICTIONARY

Admin

Field	Type	Null	description	key
user	varchar(10)	No	User of the admin	
password	varchar(20)	No	Password of the admin	

Books

Field	Type	Null	Description	key
isbn	varchar(20)	No	ISBN no of the book	Primary key
b_name	varchar(200)	No	Name of the book	
b_author	varchar(100)	No	Author of the book	
b_publisher	varchar(100)	No	Publisher of the book	
genre	varchar(100)	No	Genre of the book	
qty_available	int(5)	No	Quantity of the book	

Issue

Field	Type	Null	Description	Key
Sl	int(6)	No	Serial no of entries	Primary key
Name	varchar(50)	No	Name of the person	
P_Info	varchar(200)	No	Person information	
Phone_No	varchar(20)	No	Person phone no	
Email	varchar(200)	No	Person email id	
Book_Name	varchar(50)	No	Name of book	
issue_date	varchar(100)	No	Date of issue	
Status	varchar(100)	No	Person status	

7. DATABASE DESIGN

Admin:

Server: localhost ▸ Database: vbnet ▸ Table: admin

Browse | Structure | SQL | Search | Insert | Export | Import | Operations | Empty | Drop

	Field	Type	Collation	Attributes	Null	Default	Extra	Action
☐	user	varchar(10)	latin1_swedish_ci		No	None		
☐	password	varchar(20)	latin1_swedish_ci		No	None		

Check All / Uncheck All With selected:

Print view | Propose table structure

Add 1 field(s) At End of Table At Beginning of Table After user Go

+ Details...

Books:

Server: localhost ▸ Database: vbnet ▸ Table: books

Browse | Structure | SQL | Search | Insert | Export | Import | Operations | Empty | Drop

	Field	Type	Collation	Attributes	Null	Default	Extra	Action
☐	isbn	varchar(20)	latin1_swedish_ci		No	None		
☐	b_name	varchar(200)	latin1_swedish_ci		No	None		
☐	b_author	varchar(100)	latin1_swedish_ci		No	None		
☐	b_publisher	varchar(100)	latin1_swedish_ci		No	None		
☐	genre	varchar(100)	latin1_swedish_ci		No	None		
☐	qty_available	int(5)			No	None		

Check All / Uncheck All With selected:

Print view | Propose table structure

Add 1 field(s) At End of Table At Beginning of Table After isbn Go

+ Details...

Issue:

Server: localhost ▸ Database: vbnet ▸ Table: issue

Browse | Structure | SQL | Search | Insert | Export | Import | Operations | Empty | Drop

	Field	Type	Collation	Attributes	Null	Default	Extra	Action
☐	Sl	int(6)			No	None	auto_increment	
☐	Name	varchar(50)	latin1_swedish_ci		No	None		
☐	P_Info	varchar(200)	latin1_swedish_ci		No	None		
☐	Phone_No	varchar(20)	latin1_swedish_ci		No	None		
☐	Email	varchar(200)	latin1_swedish_ci		No	None		
☐	Book_Name	varchar(50)	latin1_swedish_ci		No	None		
☐	issue_date	varchar(100)	latin1_swedish_ci		No	None		
☐	Status	varchar(100)	latin1_swedish_ci		No	None		

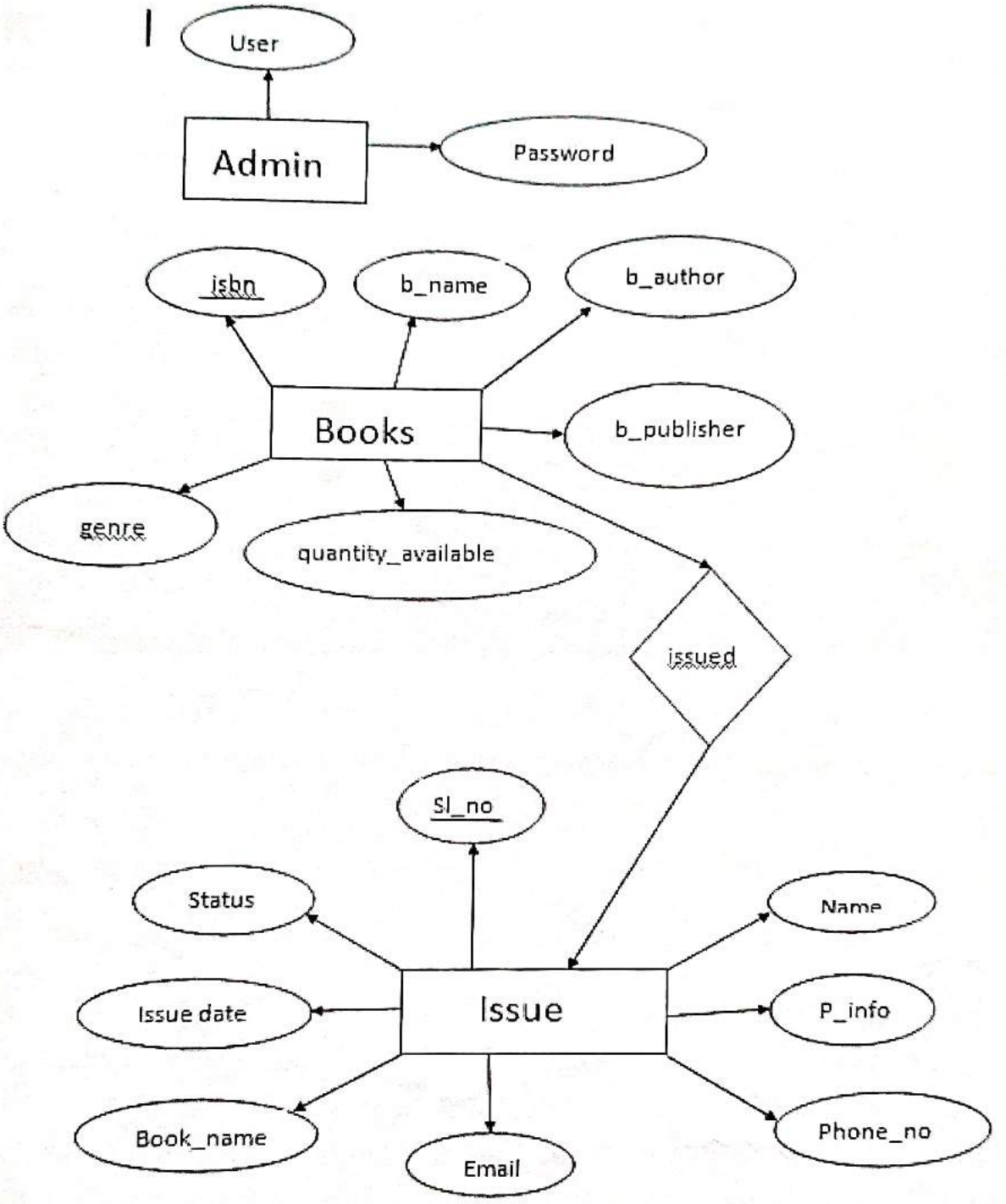
Check All / Uncheck All *With selected:*

Print view | Propose table structure

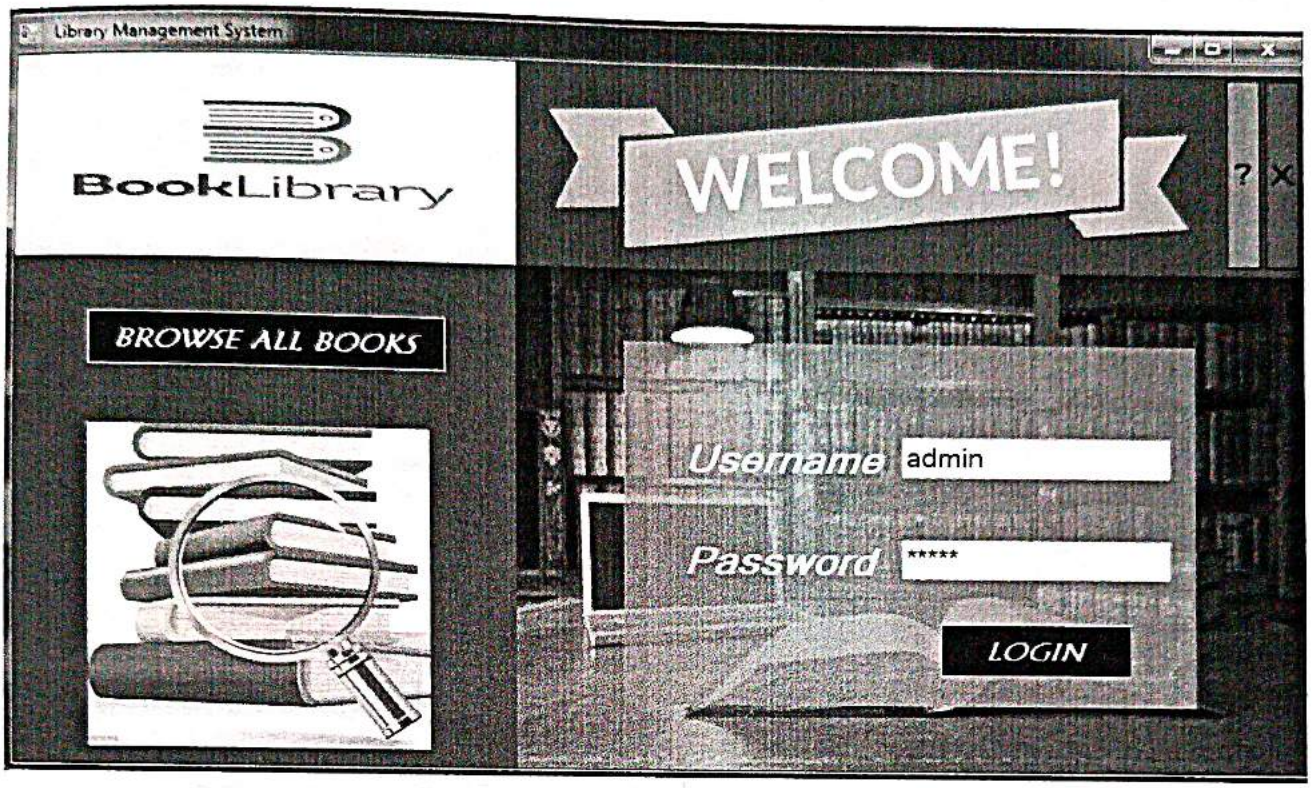
Add 1 field(s) At End of Table At Beginning of Table After Sl Go

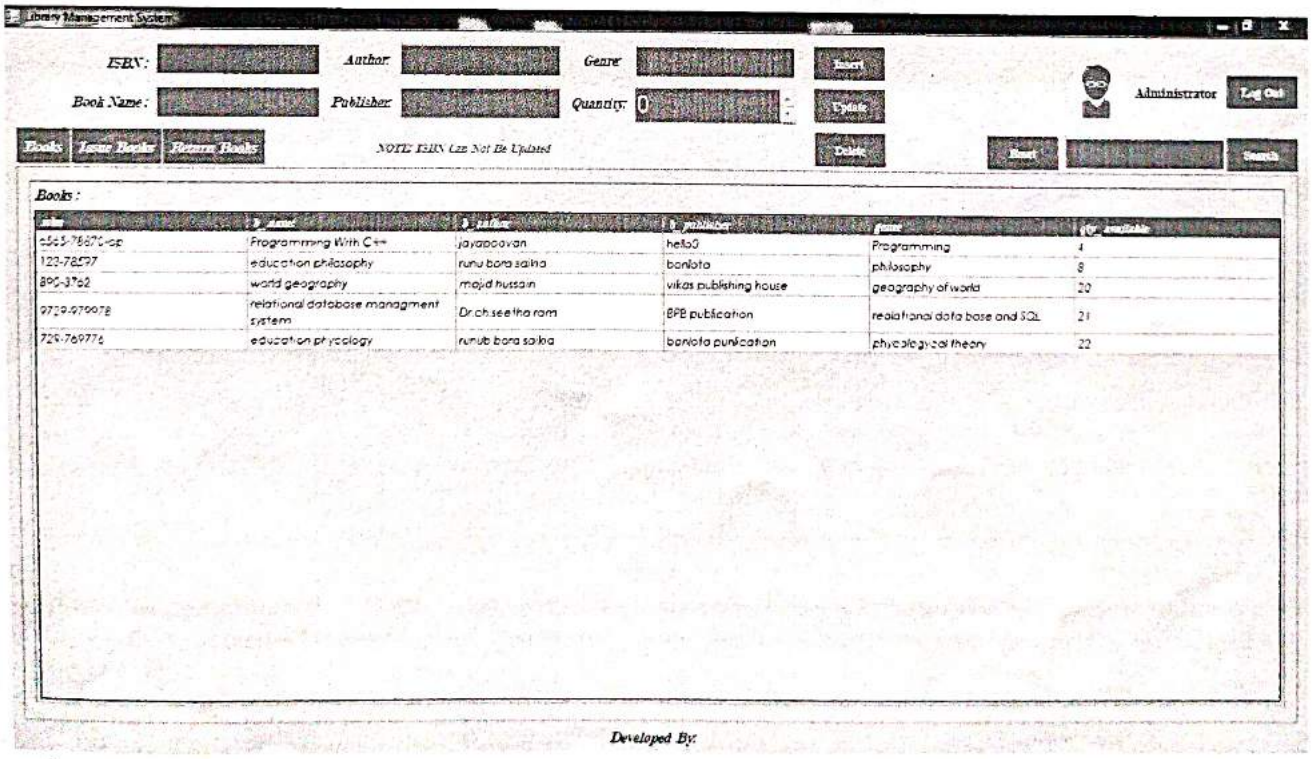
+ Details...

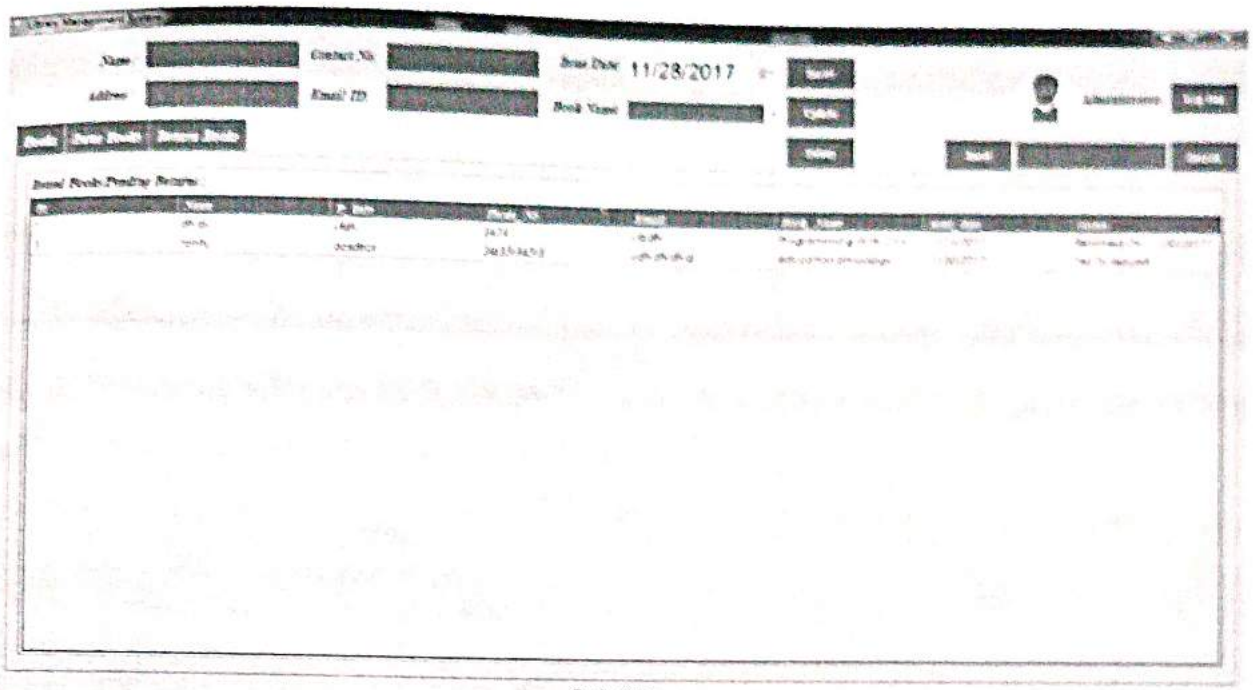
8.ER DIAGRAM


User
Admin
Password
isbn
b_name
b_author
Books
b_publisher
genre
quantity_available
issued
Sl_no
Status
Name
Issue date
Issue
P_info
Book_name
Email
Phone_no

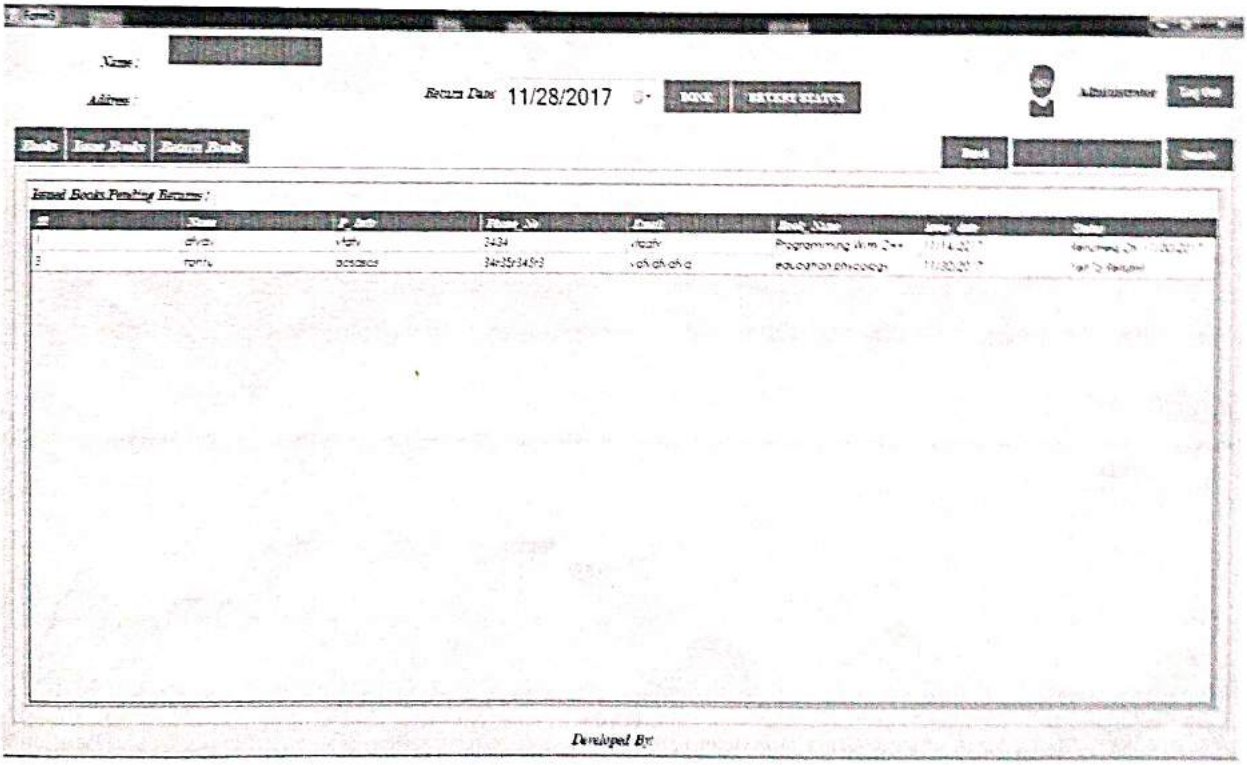
LOGICAL DESIGN:-







Developed By:



Developed By:

B.CONCLUSION

Library management system is a project which will benefit the students as well as the staff of the library. It is a process where student can search books , staff can generate reports and do book transactions .

Lastly , this project is being developed to help the students as well as staff to maintain the library in the best way possible .

C.BIBLIOGRAPHY

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