

# Abstract

## Library Management System

Developed In C#.Net

**Developed By -> Devendra B. Parmar**

**Stream -> BCA**

**Semester -> 5**

**Division -> A**

# Data Dictionary

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- **DATABASE TYPE -> MySQL (PhpMyAdmin)**
- **Tables**
  - **Login Page**
  - **Add New Books**
  - **View Books**
  - **Add Student**
  - **View Student Info**
  - **Issue book**
  - **Return Book**
  - **Complete book details**

- **Login Page**

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Field	Data_Type	Constraints
id	int	PRIMARY KEY (AUTO INCREMENT)
Username	Varchar (250)	-
pass	Varchar (250)	-

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- **Add New Books**

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Fields	Data_Type	Constraints
<b>bid</b>	<b>int</b>	<b>PRIMARY KEY (AUTO INCREMENT)</b>
<b>bname</b>	<b>Varchar (250)</b>	-
<b>bauthor</b>	<b>Varchar (250)</b>	-
<b>bpublication</b>	<b>Varchar (250)</b>	-
<b>bpublishdate</b>	<b>Varchar (250)</b>	-
<b>bprice</b>	<b>Varchar (250)</b>	-
<b>bquan</b>	<b>Varchar (250)</b>	-

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- **Views Books (Viewing Books Data)**

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Fields	Data_Type	Constraints
bid	int	PRIMARY KEY (AUTO INCREMENT)
bname	Varchar (250)	-
bauthor	Varchar (250)	-
bpublication	Varchar (250)	-
bpublishdate	Varchar (250)	-
bprice	Varchar (250)	-
bquan	Varchar (250)	-

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- Add Student

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Field	Data_Type	Constraints
<b>Stuid</b>	<b>int</b>	<b>PRIMARY KEY (AUTO INCREMENT)</b>
<b>sname</b>	<b>Varchar (250)</b>	-
<b>enroll</b>	<b>Varchar (250)</b>	-
<b>dep</b>	<b>Varchar (250)</b>	-
<b>sem</b>	<b>Varchar (250)</b>	-
<b>contact</b>	<b>Varchar (250)</b>	-
<b>email</b>	<b>Varchar (250)</b>	-

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- **View Student Info (View Student Data)**

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Field	Data_Type	Constraints
Stuid	<u>int</u>	<b><u>PRIMARY KEY</u></b> <b><u>(AUTO</u></b> <b><u>INCREMENT)</u></b>
sname	Varchar (250)	-
enroll	Varchar (250)	-
dep	Varchar (250)	-
sem	Varchar (250)	-
Contact	Varchar (250)	-
email	Varchar (250)	-

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- **Issue Book**

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Field	Data_Type	Constraints
<b><u>id</u></b>	<b><u>int</u></b>	<b><u>PRIMARY KEY</u></b> <b><u>(AUTO</u></b> <b><u>INCREMENT)</u></b>
<b>Std_enroll</b>	<b>Varchar (250)</b>	-
<b>Std_name</b>	<b>Varchar (250)</b>	-
<b>Std_dep</b>	<b>Varchar (250)</b>	-
<b>Std_sem</b>	<b>Varchar (250)</b>	-
<b>Std_contact</b>	<b>Varchar (250)</b>	-
<b>Std_email</b>	<b>Varchar (250)</b>	-
<b>Book_name</b>	<b>Varchar (250)</b>	-
<b>Book_issue_date</b>	<b>Varchar (250)</b>	-
<b>Book_return_date</b>	<b>Varchar (250)</b>	-

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- **Return Book (For Return Book)**

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Field	Data_Type	Constraints
id	int	PRIMARY KEY (AUTO INCREMENT)
Std_enroll	Varchar (250)	-
Std_name	Varchar (250)	-
Std_dep	Varchar (250)	-
Std_sem	Varchar (250)	-
Std_contact	Varchar (250)	-
Std_email	Varchar (250)	-
Book_name	Varchar (250)	-
Book_issue_date	Varchar (250)	-
Book_issue_date	Varchar (250)	-

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- **Complete Book Details**

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Field	Data_type	Constraints
did	int	PRIMARY KEY (AUTO INCREMENT)
dname	Varchar (250)	-
fname	Varchar (250)	-
mname	Varchar (250)	-
dob	Varchar (250)	-
mobile	Varchar (250)	-
gender	Varchar (250)	-
email	Varchar (250)	-
bloodgroup	Varchar (250)	-
city	Varchar (250)	-
address	Varchar (250)	-

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# **Windows Forms**

- **All Forms**
  - 1.Login Page**
  - 2.Dashboard**
  - 3.Books (menu1)**
    - a. Add New Books (sub menu)**
    - b. View Book**
  - 4.Student**
    - a. Add Student**
    - b. View Student details**
  - 5.Issue Book**
  - 6.Return Book**
  - 7.Complete Book details**
  - 8.Exit**

- **Login Page**

- **This screen is the first screen that appears at the start of the application.**
- **This is a user authentication window that asks user to input a username and password to authenticate and continue use of app.**

- **Dashboard**

- **This is the second screen of the application.**
- **This will contain all the pages (menu) of the application.**
- **This is the important window of application as it acts as a parent to other windows/forms.**

- **Book (Menu1)**

- **This is the first form (menu) of the application and it will contain the 2 other sub forms (dropdown menu) (add new book – view book).**
- **Add new book – in this form we can add the new book or other details of the book.**
- **View book – in this form we can view the All-Book data or details.**

- **Student (menu2)**

- **This is the second form (menu) of the application and it will contain the 2 other sub forms (dropdown menu) (add student – view student details).**
- **Add student – in this form we can add the new student details or other information.**

- **View student details – in this form we can view the All-student information.**
- **Issue Book**
  - **In this third form (menu) we can inform the Issue book to author.**
  - **In this form all users are inform the author to issue in their book.**
- **Return Book**
  - **In this fourth form (menu) user can return they book to author to fill the form and return their book.**

- **Complete Book Details**

- **In this fifth form (menu) of this application.**
- **This form contains the only information of all the uploaded books on this application.**
- **In this form we can put the all-books data in the excel.**
- **And user can only read the uploaded book information or retrieve the data of all books in the excel worksheet.**

- **Exit**

- **This is the Last menu of the application.**
- **User can use of this to exit from the application.**

# Data Flow Diagram

