

# **Tiny Library Book Store Management System**

## **Phase 1: Requirement Analysis**

- Admin will create and delete Managers
- Manager can Add New Books
- Manager can update current books stock
- Manager can search book stock
- Manager can delete Books

## Phase 2: Frontend (GUI) Design

### 1. Users Form



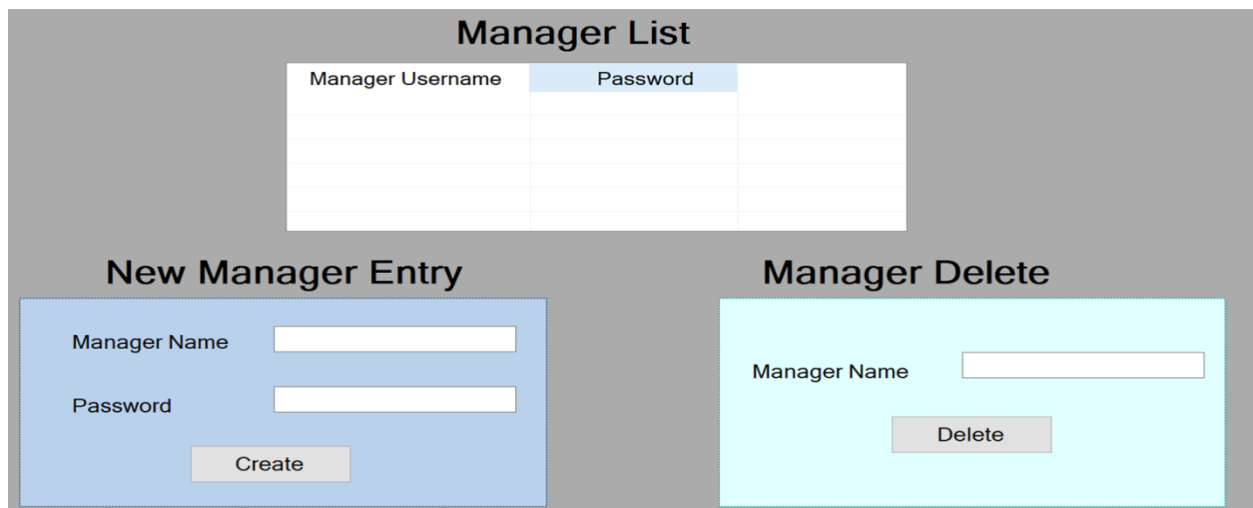
The form is titled "LogIn As" and features two columns. The left column contains an icon of a person in a military-style uniform and a button labeled "Admin". The right column contains an icon of a person in a business suit and a button labeled "Manager".

### 2. Admin Login



The form is titled "LogIn As" and features two columns. The left column contains an icon of a person in a military-style uniform and a button labeled "Admin". The right column contains an icon of a person in a business suit and a button labeled "Manager". Below the icons, there are two input fields labeled "Username" and "Password". At the bottom, there are two buttons labeled "back" and "ok".

### 3. Admin\_Manager\_Create (Insert & Delete Operation)



The form is titled "Manager List" and features a table with three columns: "Manager Username", "Password", and an empty column. Below the table, there are two sections: "New Manager Entry" and "Manager Delete".

**New Manager Entry**

Manager Name

Password

Create

**Manager Delete**

Manager Name

Delete

#### 4. ManagerNewBookEntry (Insert Operation)

## New Book Entry

Book Name	<input type="text"/>	Catagory Name	<input type="text"/>
Book Publish Year	<input type="text"/>	Entry Date	<input type="text"/>
Writer Name	<input type="text"/>		
Quantity	<input type="text"/>	<div>back</div> <div>ok</div>	

## 5. Manager\_Edit\_Book\_Info (Update Operation)

## Update Book Stock

Search By

▼

Enter

ok

cancel

Book Name

Book Publish Year 

▼

Writer Name

Catagory Name 

▼

Entry Date 

Tuesday , December 22, 2020
📅

Old Quantity

New Quantity

Update

## 6. Manager\_Book\_Search (View & Search Operation)

[illegible]

## 7. Manager\_Delete\_Book (Delete Operation)

Delete Book Stock

Search By

Enter

ok

cancel

## **Phase 3: Backend (Database) Design**

### **Database Tables**

**Database name:** LibraryBookStore

**Table Name:** Login

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username varchar(50)	password varchar(50)
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**Login Table Data**

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Username	Password
admin	admin

**Table Name:** ManagerBookEntry

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BookName varchar(100)

BookPublishYear int

WriterName varchar(100)

QuantityOfBook int

CatagoryName varchar(100)

EntryDate date

AvaliableBook int

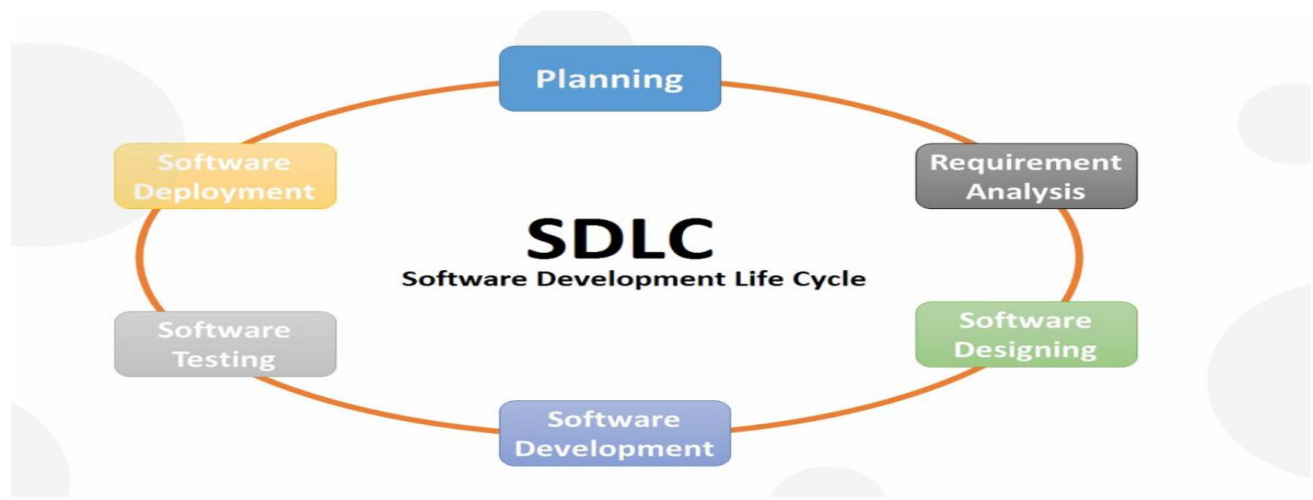
BorrowBook int

## Phase 4: Testing Phase

- ➔ Ensure that data must be stored in the appropriate format in the database.
- ➔ Use **try and catch** in the code section for handling unwanted code interruption.

## Final Phase: Project Completion Phase

Congratulation to all of the groups who can complete successfully the above four phase of the development.



## **Instructions for Project Development**

- ➔ **Frontend:** Create the GUI of Each Form for the project
- ➔ **Backend:** Developed the Database for the course
- ➔ **Coding Phase:** Connect the GUI part with DATABASE for the development of the project

## **Development Time Frame**

- **Frontend Development:** 2 Hours (GUI Design Given)
- **Backend Database Store:** 2 Hours (Database Design Given)
  - If you make extra features, it is highly appreciable.
  - If you need to use any extra table, you are welcome to add it for the development purpose
  - Any type of change is always welcome but must ensure the features.
- **Coding Phase:** 2 Days (As it is a group project, you can divide your works to your group members)

**Submission Deadline: 26/4/2021**

**Time: 11.59 pm**

**Project Type: Group Project**

## **Project Demonstration: 27/4/2021**