**User Manual for Library Management System**

**1. Introduction**

**The Library Management System is designed to manage books, students, and borrowing activities efficiently. This manual provides a comprehensive guide on how to use the system.**

* **Connect to the link** [**https://drive.google.com/drive/folders/1i7PqCkijp-HZydIxc\_owu5woj\_NbP47r**](https://drive.google.com/drive/folders/1i7PqCkijp-HZydIxc_owu5woj_NbP47r%20)
* **When the exe file are run first time in your pc it will ask for the path of the files which are on this above link drive**
* **The three different code are connected with this google drive**

**2. System Requirements**

* **Operating System: Windows**
* **Google drive on the Pc.**
* **Compiler C++: MinGW**

**3. User Login**

* **Login Credentials:**
  + **Username and Password are required to access the system.**
* **Login Process:**
  + **Launch the application.**
  + **Enter your username and password.**
  + **If the credentials are correct, you will be granted access to the system.**

**4. Book Management**

* **Navigate to the "Add a Book" option.**
* **Enter the following details:**
  + **Book Title**
  + **Book ID (must be unique)**
  + **Author's Name**
  + **Total Copies Available**
  + **Shelf Number**
* **Confirm the addition of the book.**
* **Select the "Display Books" option to view all books in the system.**
* **Choose the "Edit Data" option.**
* **Enter the Book ID of the book you wish to edit.**
* **Update the necessary details and save changes.**
* **Select the "Delete Data" option.**
* **Enter the Book ID of the book you wish to delete.**
* **Confirm the deletion.**
* **Choose the "Download Data(in .txt)" option.**
* **Specify the path where you want to save the text file containing book details.**

**5. Student Management**

* **Navigate to the "Add a Student" option.**
* **Enter the following details:**
  + **Student Name**
  + **Enrollment Number (must be unique)**
  + **Contact Number (10 digits)**
  + **Department**
* **Confirm the addition of the student.**
* **Select the "Display Student" option to view all students in the system.**
* **Choose the "Edit Data" option.**
* **Enter the Enrollment Number of the student you wish to edit.**
* **Update the necessary details and save changes.**
* **Select the "Delete Data" option.**
* **Enter the Enrollment Number of the student you wish to delete.**
* **Confirm the deletion.**
* **Choose the "Download Data(in .txt)" option to save student details in a text file.**

**6. Borrowing and Returning Books**

* **Select the "Borrow Book" option.**
* **Enter the Book ID and Student Enrollment Number.**
* **Confirm the borrowing action and note the token number provided.**
* **Choose the "Return a Book" option.**
* **Enter the token number associated with the borrowed book.**
* **Confirm the return and any applicable fines.**

**7. Attendance Management**

* **Select the "Student Entries" option.**
* **Enter the date for attendance.**
* **Input the Enrollment Numbers of present students.**
* **Choose the "Download Entries(in .txt)" option to save attendance records.**

**8. Handling Fines**

* **The system automatically calculates fines for late returns.**
* **Users can view pending fines and make payments as necessary.**

**9. Exiting the System**

* **To exit the application, select the "Exit" option from the main menu.**

**10. Troubleshooting**

* **Ensure all required folders are created before running the application.**
* **Verify that the login credentials are correct.**
* **If the application crashes, restart the program and try again.**

**11. Support**

**For further assistance, please contact the system administrator or refer to the technical support documentation.**

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**This user manual provides a comprehensive overview of the Library Management System's functionalities. Follow the instructions carefully to ensure smooth operation.**