Library Management System

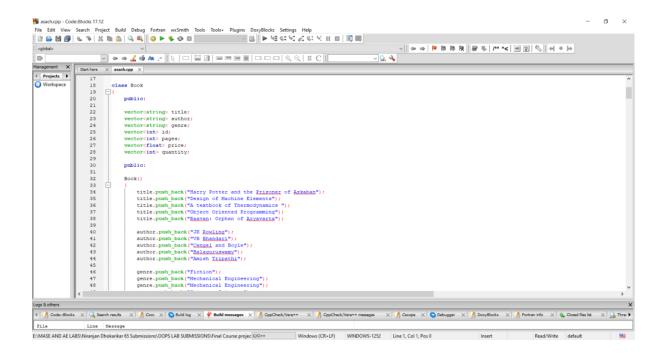
Niranjan Dhokarikar, Sanket Dhut, Shrushti Fuley, Shrutish Gadakh Department of Mechanical Engineering, Vishwakarma Institute of Technology, Bibwewadi, Pune

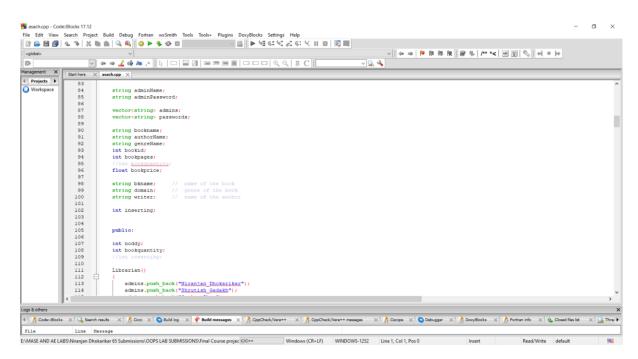
Online Library Management System is a system which maintains the information about the books present in the library, their authors, the members of library to whom books are issued, library staff and all. This is very difficult to organize manually. Maintenance of all this information manually is a very complex task. Owing to the advancement of technology, organization of an Online Library becomes much simple. The Online Library Management has been designed to computerize and automate the operations performed over the information about the members, book issues and returns and all other operations. This computerization of library helps in many instances of its maintenances. It reduces the workload of management as most of the manual work done is reduced.

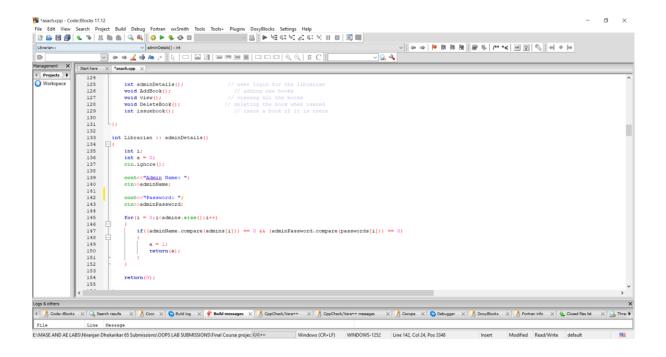
The problem occurred before having computerized system includes:

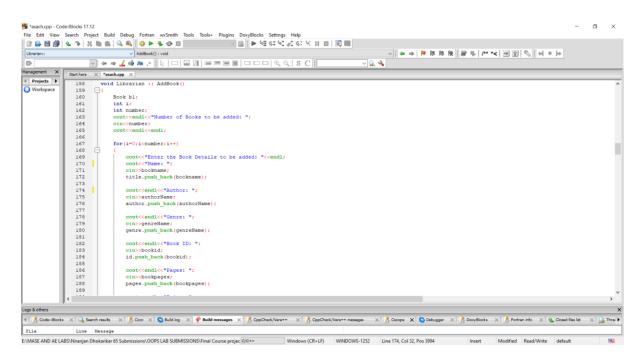
- File lost -> When computerized system is not implemented file is always lost because of human environment. Sometimes due to some human error there may be a loss of records.
- File damaged -> When a computerized system is not there, file is always lost due to some accident like spilling of water by some member on file accidentally. Besides some natural disaster like floods or fires may also damage the files.
- Difficult to search record -> When there is no computerized system there is always a difficulty in searching of records if the records are large in number.
- Space consuming -> After the number of records become large the space for physical storage of file and records also increases if no computerized system is implemented.
- Cost consuming -> As there is no computerized system the to add each record paper will be needed which will increase the cost for the management of library.

CODE SNIPPETS ->







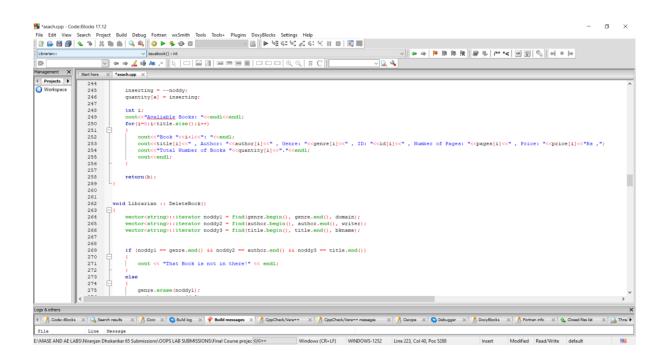


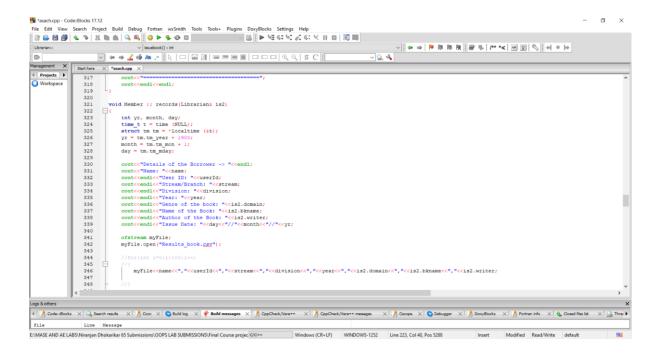
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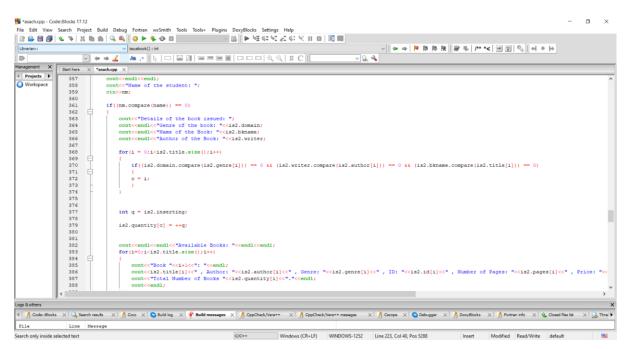
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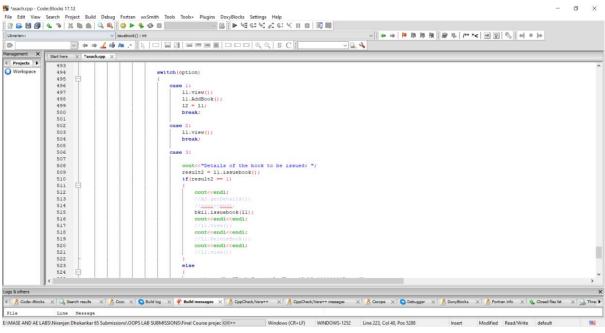
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cout<"Avaliable Books: "<<endl<<endl;
for(i=0;i<title.size();i++)</pre>
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cout<<title[i]<<" , Author: "<<author[i]<<" , Genre: "<<genre[i]<<" , ID: "<<id[i]<<" , Number of Pages: "<<pages[i]<<" , Price: "<<pre>price[i]<<"Rs ,";
cout<<"Total Number of Books "<<quantity[i]<<"."<end1;
cout<<mail."</pre>
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cin>>domain;
cout<<endl<<"Name of the Author: ";
cin>>writer;
cout<<endl<<"Name of the Book: ";</pre>
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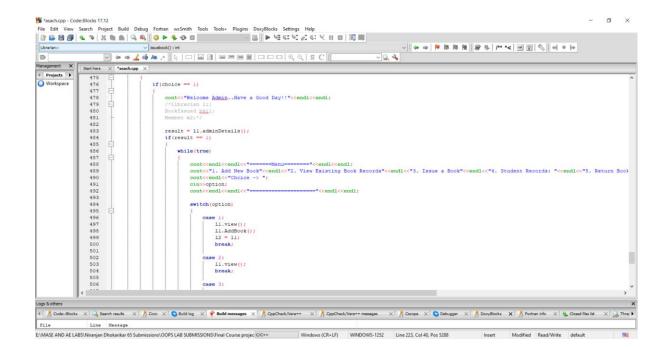






OUTPUT SNIPPETS ->





■ "E:\MASE AND AE LABS\Niranjan Dhokarikar 65 Submissions\OOPS LAB SUBMISSIONS\Final Course project OOps\asach.exe dmin Name: Niranjan_Dhokarikar assword: noddy0903 Add New Book View Existing Book Records Issue a Book Student Records: Return Book valiable Books: ber of Books to be added: 1

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inter the Book Details to be added: lame: noddy enre: fiction Add New Book View Existing Book Records Issue a Book Student Records: Return Book valiable Books: Book 3: A textbook of Thermodynamics , Author: Cengel and Boyle , Genre: Pechanical Engineering , ID: 3 , Number of Pages: 300 , Price: 1800Rs ,Total Number of Books 30.

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1. Add New Book

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3. You a statish Book

3. You a statish Book

4. Student Records:

5. Return Book

Choice > 3

**Student Records:

6. Return Book

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**Student Records:

8. Return Book

Choice > 3

**Student Records:

8. Return Book

Choice > 3

**Attains of the Book to the issued:

6. Gener of the Book: noday

Book Found...!!!!!!!!!!!!

**Available Books:

Book 1:

Avery Potter and the Prizoner of Askaban , Author: 3K Rowling , Genre: Fiction , ID: 1 , Number of Pages: 100 , Price: 1000Rs , Total Number of Books 10.

Book 2:

Parign of Hachine Elements , Author: W Bhandari , Genre: Mechanical Engineering , ID: 2 , Rumber of Pages: 200 , Price: 1000Rs , Total Number of Books 30.

Book 3:

A textbook of Thermodynamics , Author: Cengel and Boyle , Genre: Mechanical Engineering , ID: 3 , Number of Pages: 200 , Price: 1000Rs , Total Number of Books 30.

Book 5:

**Ravan: Orphan of Aryavarta , Author: Raish Tripaths , Genre: Fiction , ID: 5 , Number of Pages: 200 , Price: 1000Rs , Total Number of Books 30.

Book 5:

**Ravan: Orphan of Aryavarta , Author: Raish Tripaths , Genre: Fiction , ID: 5 , Number of Pages: 500 , Price: 1000Rs , Total Number of Books 40.

Book 5:

**Ravan: Orphan of Aryavarta , Author: Raish Tripaths , Genre: Fiction , ID: 5 , Number of Pages: 500 , Price: 1000Rs , Total Number of Books 50.

Book 5:

**Ravan: Orphan of Aryavarta , Author: Raish Tripaths , Genre: Fiction , ID: 5 , Number of Pages: 500 , Price: 1000Rs , Total Number of Books 50.

Book 6:

**Genre of the Book: Indianalan

**Ravan: Orphan of Aryavarta , Author: Raish Tripaths , Genre: Fiction , ID: 5 , Number of Books 4.

**He details are as follows:

**Genre of the Book: Indianalan
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### Control of the State of the
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CLASS DIAGRAM ->

The class diagram is the main building block of object-oriented modelling. It is used for general conceptual modelling of the structure of the application, and for detailed modelling, translating the models into programming code. Class diagrams can also be used for data modelling.

