

Kendriya Vidyalaya Aizawl 2021-22

Project Documentation

Topic: Book Shop Management System

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OBJECTIVE:

The title of the project is “Book shop management”. This software will be used to perform all the inventory jobs that are done in a normal book shop. In a book shop that does not use a software, the inventory and sales are done manually, which is time consuming and prone to errors.

The following points were considered while deciding the objective of the project:

1. This software is for Book shop management so it provides those facilities, which are used in any Book Shop.
2. It also saves the valuable time of the shop owner and lots of paper works.
3. This will save lots of effort of the user. He/She is able to manage lots of information after using this software.
4. User can manage all the records very easily.
5. Security of the data should also be maintained.

Scope of the project:

This software can be used in any book shop that has an inventory of 10,000 books or more and has a good amount of sales. The hardware required will be minimal and the training required for learning the software will also be less hence majority of the book shop will be able to use it and streamline their works.

Existing System:

As of now, general book shop maintain their inventory i.e procurement and sales of stock(BOOKS in this case) through normal ledger entry on books and registers. The methodology use is old and time consuming. Some of the disadvantages of the existing systems are listed below:

1. Too much of manual entry is done
2. The Stock records are maintained in normal registers which may have error entry
3. The sales of books are also kept in registers, hence searching the books that are in stock and those sold is very inefficient and time consuming
4. The sales record are kept in registers and bill books, hence the accounting becomes tough.
5. There is always a threat of loosing the registers as paper over time gets soiled and damaged.
6. The data can get lost over a period of time

Our system promises to deal with all these problems. Our software will deal with proper storage of data and security of the records to be maintained as well.

Project plan:

The software will have two parts to it

1. Front End
2. Back End

Front End:

The front end will be the interface through which data about the inventory and sales will be entered into the system. The front end(INTERFACE) will be developed using python and may be GUI(Graphical Users Interface) or CLI(Command line Interface) based on the time available to construct the software.

Back End:

The back end will act as data store. The back end can be developed using mysql or CSV/Binary files . All the data entered using the interface will be stored in the back end database. During the reporting, the data will be fetched from the back end storage and displayed on the front end for the end user.

The connection between front end and back end will be made in order to transfer data between them. Its always a good practice to separate the front end and back end as it offers better modularity.

Features to be incorporated in the “Book Shop Management System” application: *(These are suggestive features and can be changed according to the students)*

1. Accounts - Signup/Login
2. Add Books
3. Delete Books
4. Search Books
5. Staff Details
6. Sell Books
7. Sales Record
8. Available Books

9. Total Income after the Latest Reset

NOTE:

Features that belongs to front-end:

1. Interface to enter the **Records of the Books**
2. Interface to enter the **Transaction - Sales of Books**
3. Interface to get the **Report**

Features that belong to Back-end:

Database Tables:

1. **signup** - username, password.
2. **Available_books** - BookName, Genre, Quantity, Author, Publication, Price, ISBN.
3. **Sell_rec** - CustomerName, PhoneNumber, BookName, Quantity, Price, ISBN.
4. **staff_details** - Name, Gender, Age, PhoneNumber, Address.

Role of Team Member:

In this section we mention the task to be carried out in completion of the project. If we consider that the project team consist of two members, then the task can be divided as-

Member 1: The member 1 will design the interface for the font-end. Member 2 will work with python programming language.

Member 2: The member 2 will design the back end I.e. all the database table required to store the data. Member 2 will work with MySql software

Hardware and Software to be used.

Hardware requirements:

Process: Intel Core I 3

Ram : 8 GB

Hard Disk: 512 GB

Software requirements:

OS: Windows 10 64 Bit

Programming language: Python

DBMS Software : MySql

Documentation Software: WPS Office

Future Scope of the project:

The book shop management System is a software that automated the task in a typical book shop, but the software has many future scope of enhancements, few of them are listed below:

1. Better data inventory data analysis can be done which could lead to better sales and profit.
2. more user friendly interface can be designed
3. the software can be made cloud based which will lead to better data security and ease of use.

Conclusion:

It has been a matter of immense pleasure, honour and challenge to have this opportunity to take up this project and complete it successfully. While developing this project I have learnt a lot about online shopping system, I have also how to make it user friendly (easy to use and handle) by hiding the complicated parts of it from the users. During the development process I studied carefully and understood the criteria for making software more demanding, I also realized the importance of maintaining a minimal margin for error.

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