

SHIKSHA BHARATI SR. SEC. SCHOOL



ACADEMIC YEAR : 2023-2024

**PROJECT REPORT
ON
BOOK STALL MANAGEMENT SYSTEM**

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SUBMITTED TO :
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C E R T I F I C A T E

This is to certify that **DEEPANSH CHAND** student of class 12
has successfully completed his computer science project on
BOOK STALL MANAGEMENT SYSTEM under the guidance of
MR. DEEPAK BHATT during the session 2023-2024..

It is further certified that this project is the original work of the
student.

**SIGNATURE OF
INTERNAL EXAMINAR**

**SIGNATURE OF
EXTERNAL EXAMINAR**

ACKNOWLEDGEMENT

Apart from the efforts of me, the success of any project depends largely on the encouragement and guidelines of many others. I take this opportunity to express my gratitude to the people who have been instrumental in the successful completion of this project.

I express deep sense of gratitude to almighty God for giving me strength for the successful completion of the project.

My sincere thanks to **Mr. DEEPAK BHATT** Master In-charge, A guide, Mentor who critically reviewed my project and helped in solving each and every problem, occurred during implementation of the project

The guidance and support received from all the members who contributed and who are contributing to this project, was vital for the success of the project. I am grateful for their constant support and help.

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INTRODUCTION

In the dynamic landscape of the modern literary marketplace, efficient and streamlined management of book stalls is imperative for success. The Book Stall Management System emerges as a sophisticated solution tailored to meet the unique challenges faced by book vendors and event organizers. This comprehensive system integrates cutting-edge technology to elevate the operational efficiency of book stalls, ensuring a seamless and enjoyable experience for both vendors and customers.

Key Features:

Inventory Management: The system offers a robust inventory management module, enabling bookstall operators to effortlessly track and manage their diverse range of titles. Real-time updates on stock levels, automated reordering, and intuitive categorization contribute to an optimized inventory control process.

Sales and Transaction Tracking: Facilitating smooth and secure transactions, the system records sales data in real time. Comprehensive transaction tracking ensures accurate financial reporting, simplifying the reconciliation process for book stall operators.

User-Friendly Interface: With a user-centric design, the Book Stall Management System is intuitive and easy to navigate. Vendors can efficiently update book details, set prices, and manage promotions, while customers enjoy a seamless browsing and purchasing experience.

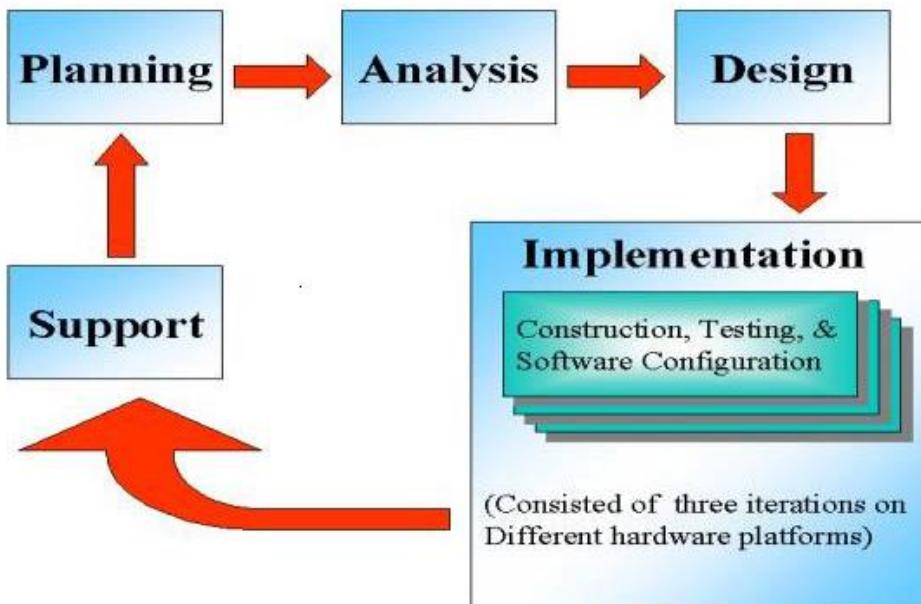
Reporting and Analytics: Robust reporting tools provide valuable insights into sales trends, customer preferences, and inventory turnover. These analytics empower bookstall managers to make informed decisions, optimize their offerings, and adapt to changing market demands.

OBJECTIVE OF THE PROJECT

The objective of this project is to let the students apply the programming knowledge into a real- world situation/problem and exposed the students how programming skills helps in developing a good software.

1. Write programs utilizing modern software tools.
2. Apply object oriented programming principles effectively when developing small to medium sized projects.
3. Write effective procedural code to solve small to medium sized problems.
4. Students will demonstrate a breadth of knowledge in computer science, as exemplified in the areas of systems, theory and software development.
5. Students will demonstrate ability to conduct a research or applied Computer Science project, requiring writing and presentation skills which exemplify scholarly style in computer science.

SYSTEM DEVELOPMENT LIFE CYCLE (SDLC)



The systems development life cycle is a project management technique that divides complex projects into smaller, more easily managed segments or phases. Segmenting projects allows managers to verify the successful completion of project phases before allocating resources to subsequent phases.

Software development projects typically include initiation, planning, design, development, testing, implementation, and maintenance phases. However, the phases may be divided differently depending on the organization involved.

For example, initial project activities might be designated as request, requirements-definition, and planning phases, or initiation, concept-development, and planning phases. End users of the system under development should be involved in reviewing the output of each phase to ensure the system is being built to deliver the needed functionality.

PHASES OF SYSTEM DEVELOPMENT LIFE CYCLE

INITIATION PHASE :

The Initiation Phase begins when a business sponsor identifies a need or an opportunity.

The purpose of the Initiation Phase is to:

- Identify and validate an opportunity to improve business accomplishments of the organization or a deficiency related to a business need.
- Identify significant assumptions and constraints on solutions to that need.
- Recommend the exploration of alternative concepts and methods to satisfy the need including questioning the need for technology, i.e., will a change in the business process offer a solution?
- Assure executive business and executive technical sponsorship. The Sponsor designates a Project Manager and the business need is documented in a Concept Proposal. The Concept Proposal includes information about the business process and the relationship to the Agency/Organization.
- Infrastructure and the Strategic Plan. A successful Concept Proposal results in a Project Management Charter which outlines the authority of the project manager to begin the project.

Careful oversight is required to ensure projects support strategic business objectives and resources are effectively implemented into an organization's enterprise architecture. The initiation phase begins when an opportunity to add, improve, or correct a system is identified and formally requested through the presentation of a business case. The business case should, at a minimum, describe a proposal's purpose, identify expected benefits, and explain how the proposed system supports one of the organization's business strategies. The business case should also identify alternative solutions and detail as many informational, functional, and network requirements as possible.

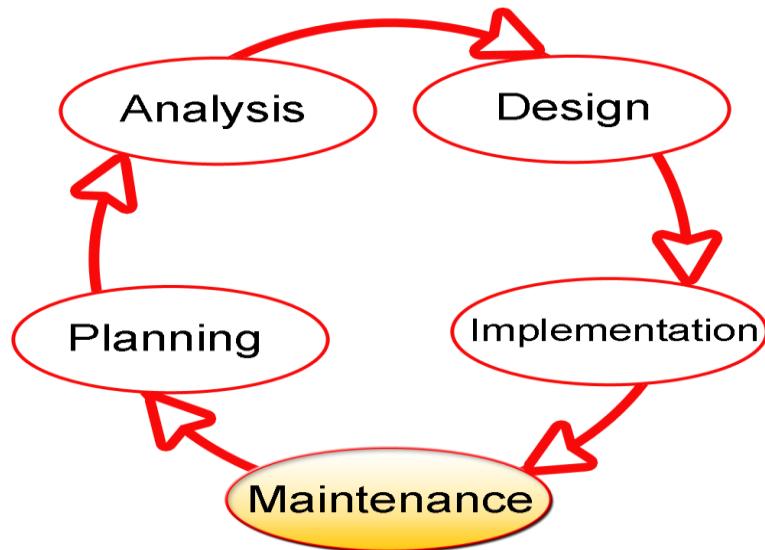
SYSTEM CONCEPT DEVELOPMENT PHASE :

The System Concept Development Phase begins after a business need or opportunity is validated by the Agency/Organization Program Leadership and the Agency/Organization CIO.

The purpose of the System Concept Development Phase is to:

- Determine the feasibility and appropriateness of the alternatives.
- Identify system interfaces.
- Identify basic functional and data requirements to satisfy the business need.
- Establish system boundaries; identify goals, objectives, critical success factors, and performance measures.
- Evaluate costs and benefits of alternative approaches to satisfy the basic functional requirements
- Assess project risks
- Identify and initiate risk mitigation actions, and Develop high-level technical architecture, process models, data models, and a concept of operations. This phase explores potential technical solutions within the context of the business need.
- It may include several trade-off decisions such as the decision to use COTS software products as opposed to developing custom software or reusing software components, or the decision to use an incremental delivery versus a complete, onetime deployment.
- Construction of executable prototypes is encouraged to evaluate technology to support the business process. The System Boundary Document serves as an important reference document to support the Information Technology Project Request (ITPR) process.
- The ITPR must be approved by the State CIO before the project can move forward.

PICTORIAL REPRESENTATION OF SDLC :



PLANNING PHASE :

The planning phase is the most critical step in completing development, acquisition, and maintenance projects. Careful planning, particularly in the early stages of a project, is necessary to coordinate activities and manage project risks effectively. The depth and formality of project plans should be commensurate with the characteristics and risks of a given project. Project plans refine the information gathered during the initiation phase by further identifying the specific activities and resources required to complete a project.

A critical part of a project manager's job is to coordinate discussions between user, audit, security, design, development, and network personnel to identify and document as many functional, security, and network requirements as possible. During this phase, a plan is developed that documents the approach to be used and includes a discussion of methods, tools, tasks, resources, project schedules, and user input. Personnel assignments, costs, project schedule, and target dates are established.

A Project Management Plan is created with components related to acquisition planning, configuration management planning, quality assurance planning, concept of operations, system security, verification and validation, and systems engineering management planning.

REQUIREMENTS ANALYSIS PHASE :

This phase formally defines the detailed functional user requirements using high-level requirements identified in the Initiation, System Concept, and Planning phases. It also delineates the requirements in terms of data, system performance, security, and maintainability requirements for the system. The requirements are defined in this phase to a level of detail sufficient for systems design to proceed. They need to be measurable, testable, and relate to the business need or opportunity identified in the Initiation Phase. The requirements that will be used to determine acceptance of the system are captured in the Test and Evaluation MasterPlan.

The purposes of this phase are to:

- Further define and refine the functional and data requirements and document them in the Requirements Document,
- Complete business process reengineering of the functions to be supported (i.e., verify what information drives the business process, what information is generated, who generates it, where does the information go, and who processes it),
- Develop detailed data and process models (system inputs, outputs, and the process).
- Develop the test and evaluation requirements that will be used to determine acceptable system performance.

DESIGN PHASE :

The design phase involves converting the informational, functional, and network requirements identified during the initiation and planning phases into unified design specifications that developers use to script programs during the development phase. Program designs are constructed in various ways. Using a top-down approach, designers first identify and link major program components and interfaces, then expand design layouts as they identify and link smaller subsystems and connections. Using a bottom-up approach, designers first identify and link

minor program components and interfaces, then expand design layouts as they identify and link larger systems and connections. Contemporary design techniques often use prototyping tools that build mock-up designs of items such as application screens, database layouts, and system architectures. End users, designers, developers, database managers, and network administrators should review and refine the prototyped designs in an iterative process until they agree on an acceptable design. Audit, security, and quality assurance personnel should be involved in the review and approval process. During this phase, the system is designed to satisfy the functional requirements identified in the previous phase. Since problems in the design phase could be very expensive to solve in the later stage of the software development, a variety of elements are considered in the design to mitigate risk. These include:

- Identifying potential risks and defining mitigating design features.
- Performing a security risk assessment.
- Developing a conversion plan to migrate current data to the new system.
- Determining the operating environment.
- Defining major subsystems and their inputs and outputs.
- Allocating processes to resources.
- Preparing detailed logic specifications for each software module. The result is a draft System Design Document which captures the preliminary design for the system.
- Everything requiring user input or approval is documented and reviewed by the user. Once these documents have been approved by the Agency CIO and Business Sponsor, the final System Design Document is created to serve as the Critical/Detailed Design for the system.
- This document receives a rigorous review by Agency technical and functional representatives to ensure that it satisfies the business requirements. Concurrent with the development of the system design, the Agency Project Manager begins development of the Implementation Plan, Operations and Maintenance Manual, and the Training Plan.

DEVELOPMENT PHASE:

The development phase involves converting design specifications into executable programs. Effective development standards include requirements that programmers and other project participants discuss design specifications before programming begins. The procedures help ensure programmers clearly understand program designs and functional requirements. Programmers use various techniques to develop computer programs. The large transaction oriented programs associated with financial institutions have traditionally been developed using procedural programming techniques. Procedural programming involves the line-by-line scripting of logical instructions that are combined to form a program. Effective completion of the previous stages is a key factor in the success of the Development phase.

The Development phase consists of:

- Translating the detailed requirements and design into system components.
- Testing individual elements (units) for usability.
- Preparing for integration and testing of the IT system.

INTEGRATION AND TEST PHASE :

- Subsystem integration, system, security, and user acceptance testing is conducted during the integration and test phase. The user, with those responsible for quality assurance, validates that the functional requirements, as defined in the functional requirements document, are satisfied by the developed or modified system. OIT Security staff assess the system security and issue a security certification and accreditation prior to installation/implementation.

Multiple levels of testing are performed, including:

- Testing at the development facility by the contractor and possibly supported by end users
- Testing as a deployed system with end users working together with contract personnel

- Operational testing by the end user alone performing all functions. Requirements are traced throughout testing, a final Independent Verification & Validation evaluation is performed and all documentation is reviewed and accepted prior to acceptance of the system.

IMPLEMENTATION PHASE :

This phase is initiated after the system has been tested and accepted by the user. In this phase, the system is installed to support the intended business functions. System performance is compared to performance objectives established during the planning phase. Implementation includes user notification, user training, installation of hardware, installation of software onto production computers, and integration of the system into daily work processes. This phase continues until the system is operating in production in accordance with the defined user requirements.

OPERATIONS AND MAINTENANCE PHASE :

The system operation is ongoing. The system is monitored for continued performance in accordance with user requirements and needed system modifications are incorporated. Operations continue as long as the system can be effectively adapted to respond to the organization's needs. When modifications or changes are identified, the system may reenter the planning phase.

The purpose of this phase is to:

- Operate, maintain, and enhance the system.
- Certify that the system can process sensitive information.
- Conduct periodic assessments of the system to ensure the functional requirements continue to be satisfied.
- Determine when the system needs to be modernized, replaced, or retired.

SOURCE – CODE

CONNECT With SQL DATABASE :

```
import mysql.connector as a  
password=input("DATABASE PASSWORD:")  
con=a.connect(host="localhost",user="root",password='7668789210')  
c=con.cursor()  
  
#CREATE New Database IF DOES NOT EXIST:  
c.execute("create database if not exists Book_Stall")  
if con.is_connected():  
    print("\n")  
    print("-----\n-----")  
    -----")
```

#SELECT DATABASE IF EXIST :

```
c.execute("use Book_Stall")
```

#CREATE New Table IF DOES NOT EXIST :

```
#-----
```

#Structure Of Books Table:

```
c.execute("""create table if not exists BOOKS (B_Name varchar(50),  
        B_Author varchar(50), CostPrice integer,  
        SellPrice integer, Date varchar(20))""")
```

```
#-----
```

#Structure Of Customers Table:

```
c.execute("""create table if not exists CUSTOMERS (C_Name varchar(20),  
        Book varchar(25), Payment int,
```

```
Date varchar(20),C_Phone varchar(50))""")
```

```
#-----
```

#Structure Of Bills Table:

```
c.execute("""create table if not exists BILLS (Detail varchar(20),  
Cost int,GST int,Sum int,Date varchar(20))""")
```

```
#-----
```

#Structure Of Workers Table:

```
c.execute("""create table if not exists WORKERS(W_Name varchar(100),  
Work varchar(20),W_Salary varchar(50))""")
```

```
#-----
```

#SYSTEM PASSWORD LOGIN :

```
def signin():
```

```
    print(" >>>>>>> WELCOME TO KHATIMA BOOK STALL <<<<<<<<")
```

```
    print(" _____ \n -----")  
-----")
```

```
    print("\n")
```

```
    print("-----")
```

```
    p=input("Are You Interested To Visit\n-----\n(y/n)? :")
```

```
    if p=="y":
```

```
        options()
```

```
    else:
```

```
        signin()
```

#PROJECT WORKING OPTIONS

```
def options():
```

```
    print("\n")
```

```
    print("-----")
```

```
    KHATIMA BOOK STALL
```

-
- 1. Add Book 5. Display Books
 - 2. Sell Book 6. Display Payments
 - 3. Add Bill 7. Display Bills
 - 4. Add Worker 8. Display Workers
-

""")
choice=input("SELECT OPTION:")

while True:

 if choice=='1':

 AddBook()

 elif choice=='2':

 SellBook()

 elif choice=='3':

 AddBill()

 elif choice=='4':

 AddWorker()

 elif choice=='5':

 DisplayBooks()

 elif choice=='6':

 DisplayPayments()

 elif choice=='7':

 DisplayBills()

 elif choice=='8':

 DisplayWorkers()

 elif choice=='0':

```
    Exit()  
  
    #If Wrong Value is Enter:  
  
    else:  
  
        print("Enter Again:")  
  
        options()
```

#ADD BOOK :

```
def AddBook():  
  
    n=input("B_Name:")  
  
    a=input("B_Author:")  
  
    c=int(input("Cost Price:"))  
  
    s=int(input("Selling Price:"))  
  
    d=input("Date:")  
  
    data=(n,a,c,s,d)  
  
    sql='insert into BOOKS values(%s,%s,%s,%s,%s)'  
  
    c=con.cursor()  
  
    c.execute(sql,data)  
  
    con.commit()  
  
    print("Data Inserted Successfully...")  
  
    options()
```

#SELL BOOK :

```
def SellBook():  
  
    n=input("C_Name:")  
  
    b=input("Book:")  
  
    py=int(input("Payment:"))  
  
    d=input("Date:")  
  
    ph=input("C_Phone:")
```

```
data=(n,b,py,d,ph)

sql='insert into CUSTOMERS values(%s,%s,%s,%s,%s)'

c=con.cursor()

c.execute(sql,data)

con.commit()

print("Data Inserted Successfully...")

options()
```

#ADD BILL :

```
def AddBill():

    dt=input("Detail:")

    c=int(input("Cost:"))

    g=int(input("GST:"))

    s=int(input("Sum:"))

    d=input("Date:")

    data=(dt,c,g,s,d)

    sql='insert into BILLS values(%s,%s,%s,%s,%s)'

    c=con.cursor()

    c.execute(sql,data)

    con.commit()

    print("Data Inserted Successfully...")

    options()
```

#ADD WORKER :

```
def AddWorker():

    n=input("W_Name:")

    w=input("Work:")
```

```

s=input("W_Salary:")

data=(n,w,s)

sql='insert into WORKERS values(%s,%s,%s)'

c=con.cursor()

c.execute(sql,data)

con.commit()

print("Data Inserted Successfully...")

options()

```

#DISPLAY BOOKS :

```

def DisplayBooks():

    sql='select*from BOOKS'

    c=con.cursor()

    c.execute(sql)

    d=c.fetchall()

    for i in d:

        print("Name:",i[0],'|"Author:',i[1],'|"Cost:',i[2],'|"Buy:',i[3],'|"Date:',i[4])

        print("-----")

    options()

```

#DISPLAY PAYMENTS :

```

def DisplayPayments():

    sql='select*from CUSTOMERS'

    c=con.cursor()

    c.execute(sql)

    d=c.fetchall()

    for i in d:

        print("Name:",i[0],'|"Book:',i[1],'|"Payment:',i[2],'|"Date:',i[3],'|"Phone:',i[4])

```

```
    print("-----")
    options()
```

#DISPLAY BILLS :

```
def DisplayBills():
    sql='select*from BILLS'
    c=con.cursor()
    c.execute(sql)
    d=c.fetchall()
    for i in d: print("Name:",i[0],'|',"Cost:",i[1],'|',"Tax:",i[2],'|',"Total",i[3],'|',"Date:",i[4])
    print("-----")
    options()
```

#DISPLAY WORKERS :

```
def DisplayWorkers():
    sql='select*from WORKERS'
    c=con.cursor()
    c.execute(sql)
    d=c.fetchall()
    for i in d:
        print("Name:",i[0],'|
              ,"Work:",i[1],'|',"Salary:",i[2],)
    print("-----")
    options()
signin()
```

#~~~Program End~~~

OUTPUT

1 : HOME PAGE

```
DATABASE PASSWORD:7668789210
```

```
----->>>>>>> WELCOME TO KHATIMA BOOK STALL <<<<<<<<
```

```
-----Are You Interested To Visit
```

```
-----(y/n) ? :y
```

2 : ADD BOOK

```
SELECT OPTION:1  
B_Name:Believe  
B_Author:Rohit  
Cost Price:200  
Selling Price:250  
Date:09/09/2009  
Data Inserted Successfully....
```

3 : SELL BOOK

```
SELECT OPTION:2  
C_Name:Rohan  
Book:Belive  
Payment:250  
Date:08/08/2008  
C_Phone:9876546789  
Data Inserted Successfully....
```

4 : ADD BILL

```
SELECT OPTION:3
Detail:paint
Cost:3000
GST:500
Sum:3500
Date:07/07/2007
Data Inserted Successfully....
```

5 : ADD WORKER

```
SELECT OPTION:4
W_Name:Kajal
Work:Employee
W_Salary:30000
Data Inserted Successfully....
```

6 : DISPLAY BOOK

```
SELECT OPTION:5
Name: you can | Author: Akshit | Cost: 200 | Buy: 250 | Date: 09/12/2004
-----
Name: Believe | Author: Rohit | Cost: 200 | Buy: 250 | Date: 09/09/2009
-----
Name: Trust | Author: Mina | Cost: 300 | Buy: 600 | Date: 08/07/2004
-----
Name: Can do | Author: Sumit | Cost: 700 | Buy: 800 | Date: 09/02/2004
-----
Name: Cant | Author: rohit | Cost: 400 | Buy: 500 | Date: 09/04/2006
-----
```

7 : DISPLAY PAYMENTS

```
SELECT OPTION:6
Name: Rahul | Book: You can | Payment: 250 | Date: 09/12/2005 | Phone: 8798786787
-----
Name: Rohan | Book: Belive | Payment: 250 | Date: 08/08/2008 | Phone: 9876546789
-----
Name: Rohan | Book: Trust | Payment: 250 | Date: 09/12/2005 | Phone: 4747586878
-----
Name: Believe | Book: Cant | Payment: 700 | Date: 09/12/3333 | Phone: 98766556673
-----
```

8 : DISPLAY BILLS

```
SELECT OPTION:7
Name: Moter Servies | Cost: 3000 | Tax: 200 | Total 3200 | Date: 08/04/2
009
-----
Name: paint | Cost: 3000 | Tax: 500 | Total 3500 | Date: 07/07/2007
-----
Name: books | Cost: 500 | Tax: 500 | Total 1000 | Date: 09/12/2004
-----
Name: copy | Cost: 400 | Tax: 40 | Total 440 | Date: 09/12/2005
-----
Name: Dresses | Cost: 800 | Tax: 90 | Total 890 | Date: 09/12/2004
-----
Name: Cloths | Cost: 600 | Tax: 60 | Total 660 | Date: 09/12/2004
```

9 : DISPLAY WORKERS

```
SELECT OPTION:8
Name: Sohan | Work: Employee | Salary: 20000
-----
Name: MohN | Work: Majdoorri | Salary: 2300
-----
Name: Kajal | Work: Employee | Salary: 30000
-----
Name: Sumit | Work: Employee | Salary: 50000
-----
Name: Manav | Work: Majdori | Salary: 40000
-----
Name: Kajal | Work: Employee | Salary: 30000
```

10 : TABLES

```
mysql> show tables;
+-----+
| Tables_in_book_stall |
+-----+
| bills
| books
| customers
| workers
+-----+
4 rows in set (0.00 sec)
```

11 : BILLS DETAIL

```
mysql> select*from bills;
+-----+-----+-----+-----+-----+
| Detail | Cost | GST | Sum | Date |
+-----+-----+-----+-----+-----+
| Moter Servies | 3000 | 200 | 3200 | 08/04/2009 |
| paint | 3000 | 500 | 3500 | 07/07/2007 |
| books | 500 | 500 | 1000 | 09/12/2004 |
| copys | 400 | 40 | 440 | 09/12/2005 |
| Dresses | 800 | 90 | 890 | 09/12/2004 |
| Cloths | 600 | 60 | 660 | 09/12/2004 |
+-----+-----+-----+-----+-----+
```

12 : BOOKS DETAIL

```
mysql> select*from books;
+-----+-----+-----+-----+-----+
| B_Name | B_Author | CostPrice | SellPrice | Date |
+-----+-----+-----+-----+-----+
| you can | Akshit | 200 | 250 | 09/12/2004 |
| Believe | Rohit | 200 | 250 | 09/09/2009 |
| Trust | Mina | 300 | 600 | 08/07/2004 |
| Can do | Sumit | 700 | 800 | 09/02/2004 |
| Cant | rohit | 400 | 500 | 09/04/2006 |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

13 : CUSTOMERS DETAIL

```
mysql> select*from customers;
+-----+-----+-----+-----+-----+
| C_Name | Book | Payment | Date | C_Phone |
+-----+-----+-----+-----+-----+
| Rahul | You can | 250 | 09/12/2005 | 8798786787 |
| Rohan | Belive | 250 | 08/08/2008 | 9876546789 |
| Rohan | Trust | 250 | 09/12/2005 | 4747586878 |
| Believe | Cant | 700 | 09/12/3333 | 98766556673 |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

14 : WORKERS DETAIL

```
mysql> select*from workers;
+-----+-----+-----+
| W_Name | Work | W_Salary |
+-----+-----+-----+
| Sohan | Employee | 20000 |
| MohN | Majdoorri | 2300 |
| Kajal | Employee | 30000 |
| Sumit | Employee | 50000 |
| Manav | Majdori | 40000 |
| Kajal | Employee | 30000 |
+-----+-----+-----+
6 rows in set (0.00 sec)
```

HARDWARE AND SOFTWARE

REQUIREMENTS

- I. OPERATING SYSTEM : WINDOWS 7 AND ABOVE
- II. PROCESSOR : PENTIUM(ANY) OR AMD
ATHALON(3800+- 4200+ DUALCORE)
- III. MOTHERBOARD : 1.845 OR 915,995 FOR PENTIUM OR
MSI K9MM-V VIAK8M800+8237R
PLUS CHIPSET FOR AMD ATHALON
- IV. RAM : 512MB+
- V. Hard disk : SATA 40 GB OR ABOVE
- VI. CD/DVD r/w multi drive combo : (If back up required)
- VII. FLOPPY DRIVE 1.44 MB : (If Backup required)
- VIII. MONITOR 14.1 or 15 -17 inch
- IX. Key board and mouse
- X. Printer : (if print is required – [Hard copy])

SOFTWARE REQUIREMENTS:

- I. Windows OS
- II. Python
- III. MySql

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By : SumitaArora

Head First Python: A Brain-Friendly Guide

Programming Python: Powerful Object Oriented

Programming The Pragmatic Programmer.

* * *