

1. Library Management System

Scenario:

Design a system to manage a library's book collection. The program should allow users to add new books, issue books to students, and track the return of borrowed books.

Requirements:

Create a Book class with attributes like book ID, title, author, and availability status.

Implement methods to issue and return books.

Design a Library class to store a collection of books and provide a method to search for a book by title or ID.

Display statistics such as the total number of books, issued books, and available books.

Store the book data in a file for persistent storage.

Program:

```
#include <iostream>
```

```
#include <vector>
```

```
#include <fstream>
```

```
#include <string>
```

```
using namespace std;
```

```
class Book {
```

```
private:
```

```
    int bookID;
```

```
    string title;
```

```
    string author;
```

```
    bool available;
```

```
public:
```

```
    Book(int id = 0, string t = "", string a = "", bool av = true) {
```

```
        bookID = id;
```

```
        title = t;
```

```
        author = a;
```

```
        available = av;
```

```
    }
```

```
    int getID() { return bookID; }
```

```
    string getTitle() { return title; }
```

```
    string getAuthor() { return author; }
```

```
    bool isAvailable() { return available; }
```

```
    void issueBook() {
```

```
        if (available) {
```

```
            available = false;
```

```
            cout << "Book issued successfully!\n";
```

```
        }
```

```
    } else {
```

```

        cout << "Book is already issued.\n";
    }
}

void returnBook() {
    if (!available) {
        available = true;
        cout << "Book returned successfully!\n";
    }
    else {
        cout << "Book was not issued.\n";
    }
}

void displayBook() {
    cout << "ID: " << bookID << " | Title: " << title
        << " | Author: " << author
        << " | Status: " << (available ? "Available" : "Issued") << endl;
}

string toFileString() {
    return to_string(bookID) + "," + title + "," + author + "," + (available ? "1" : "0") + "\n";
}

static Book fromFileString(string line) {
    int id;
    string t, a;
    bool av;
    size_t pos1 = line.find(",");
    size_t pos2 = line.find(",", pos1 + 1);
    size_t pos3 = line.find(",", pos2 + 1);

    id = stoi(line.substr(0, pos1));
    t = line.substr(pos1 + 1, pos2 - pos1 - 1);
    a = line.substr(pos2 + 1, pos3 - pos2 - 1);
    av = (line.substr(pos3 + 1) == "1");

    return Book(id, t, a, av);
}

};

class Library {
private:
    vector<Book> books;
    string filename = "library.txt";
    void saveToFile() {

```

```

        ofstream fout(filename);
    for (auto &book : books) {
        fout << book.toFileString();
    }
    fout.close();
}

```

```

void loadFromFile() {
    books.clear();
    ifstream fin(filename);
    string line;
    while (getline(fin, line)) {
        if (!line.empty()) {
            books.push_back(Book::fromFileString(line));
        }
    }
    fin.close();
}

```

public:

```

    Library() {
        loadFromFile();
    }

```

```

    void addBook(int id, string title, string author) {
        books.push_back(Book(id, title, author));
        saveToFile();
        cout << "Book added successfully!\n";
    }

```

```

    void issueBook(int id) {
        for (auto &book : books) {
            if (book.getID() == id) {
                book.issueBook();
                saveToFile();
                return;
            }
        }
        cout << "Book not found!\n";
    }

```

```

    void returnBook(int id) {
        for (auto &book : books) {
            if (book.getID() == id) {

```

```
        book.returnBook();
        saveToFile();
        return;
    }
}
cout << "Book not found!\n";
}
```

```
void searchByID(int id) {
    for (auto &book : books) {
        if (book.getID() == id) {
            book.displayBook();
            return;
        }
    }
    cout << "Book not found!\n";
}
```

```
void searchByTitle(string title) {
    for (auto &book : books) {
        if (book.getTitle() == title) {
            book.displayBook();
            return;
        }
    }
    cout << "Book not found!\n";
}
```

```
void displayAllBooks() {
    cout << "\n--- Library Collection ---\n";
    for (auto &book : books) {
        book.displayBook();
    }
}
```

```
void displayStats() {
    int total = books.size();
    int issued = 0, available = 0;
    for (auto &book : books) {
        if (book.isAvailable())
            available++;
        else
            issued++;
    }
}
```

```

        cout << "\n--- Library Stats ---\n";
        cout << "Total Books: " << total << endl;
        cout << "Available: " << available << endl;
        cout << "Issued: " << issued << endl;
    }
};

int main() {
    Library library;
    int choice;

    do {
        cout << "\n===== Library Management Menu =====\n";
        cout << "1. Add Book\n";
        cout << "2. Issue Book\n";
        cout << "3. Return Book\n";
        cout << "4. Search Book by ID\n";
        cout << "5. Search Book by Title\n";
        cout << "6. Display All Books\n";
        cout << "7. Display Stats\n";
        cout << "8. Exit\n";
        cout << "Enter your choice: ";
        cin >> choice;

        int id;
        string title, author;

        switch (choice) {
            case 1:
                cout << "Enter Book ID: ";
                cin >> id;
                cout << "Enter Title: ";
                cin.ignore();
                getline(cin, title);
                cout << "Enter Author: ";
                getline(cin, author);
                library.addBook(id, title, author);
                break;

            case 2:
                cout << "Enter Book ID to Issue: ";
                cin >> id;
                library.issueBook(id);
                break;

```

```

case 3:
    cout << "Enter Book ID to Return: ";
    cin >> id;
    library.returnBook(id);
    break;

case 4:
    cout << "Enter Book ID: ";
    cin >> id;
    library.searchByID(id);
    break;

case 5:
    cout << "Enter Title: ";
    cin.ignore();
    getline(cin, title);
    library.searchByTitle(title);
    break;

case 6:
    library.displayAllBooks();
    break;

case 7:
    library.displayStats();
    break;

case 8:
    cout << "Exiting Library System...\n";
    break;

default:
    cout << "Invalid choice! Try again.\n";
}
} while (choice != 8);

return 0;
}
O/p
===== Library Management Menu =====
1. Add Book
2. Issue Book
3. Return Book

```

4. Search Book by ID
5. Search Book by Title
6. Display All Books
7. Display Stats
8. Exit

Enter your choice: 6

--- Library Collection ---

===== Library Management Menu =====

1. Add Book
2. Issue Book
3. Return Book
4. Search Book by ID
5. Search Book by Title
6. Display All Books
7. Display Stats
8. Exit

Enter your choice: 8

Exiting Library System...

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Output



```
1  #include <iostream>
2  #include <vector>
3  #include <fstream>
4  #include <string>
5  using namespace std;
6
7  class Book {
8  private:
9      int bookID;
10     string title;
11     string author;
12     bool available;
13
14 public:
15     Book(int id = 0, string t = "",
           string a = "", bool av = true
           ) {
16         bookID = id;
17         title = t;
```

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main.c...

Output



```
25         bool isAvailable() { return
           available; }

26

27 void issueBook() {
28     if (available) {
29         available = false;
30         cout << "Book issued
           successfully!\n";
31     }
32     else {
33         cout << "Book is already
           issued.\n";
34     }
35 }

36

37 void returnBook() {
38     if (!available) {
39         available = true;
40         cout << "Book returned
```

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Output



```
43         cout << "Book was not issued
           .\n";
44     }
45 }
46
47 void displayBook() {
48     cout << "ID: " << bookID << " |
           Title: " << title
49         << " | Author: " <<
           author
50         << " | Status: " <<
           (available ?
           "Available" :
           "Issued") << endl;
51 }
52 string toFileString() {
53     return to_string(bookID) + "," +
           title + "," + author + "," +
```

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main.c...

Output



```
54     }
55     static Book fromFileString(string
        line) {
56     int id;
57     string t, a;
58     bool av;
59     size_t pos1 = line.find(",");
60     size_t pos2 = line.find(",", pos1
        + 1);
61     size_t pos3 = line.find(",", pos2
        + 1);
62
63     id = stoi(line.substr(0, pos1));
64     t = line.substr(pos1 + 1, pos2 -
        pos1 - 1);
65     a = line.substr(pos2 + 1, pos3 -
        pos2 - 1);
66     av = (line.substr(pos3 + 1) ==
```

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main.c...

Output



```
70 };
71
72 class Library {
73 private:
74     vector<Book> books;
75     string filename = "library.txt";
76 void saveToFile() {
77     ofstream fout(filename);
78     for (auto &book : books) {
79         fout << book.toFileString();
80     }
81     fout.close();
82 }
83
84 void loadFromFile() {
85     books.clear();
86     ifstream fin(filename);
87     string line;
```


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Output



```
93         fin.close();  
94     }  
95  
96     public:  
97     Library() {  
98         loadFromFile();  
99     }  
100  
101     void addBook(int id, string title  
102                 , string author) {  
103         books.push_back(Book(id, title,  
104                             author));  
105         saveToFile();  
106         cout << "Book added  
107                successfully!\n";  
108     }  
109  
110     void issueBook(int id) {  
111         for (auto &book : books) {
```

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main.c...

Output



```
114     }
115     cout << "Book not found!\n";
116 }
117
118 void returnBook(int id) {
119     for (auto &book : books) {
120         if (book.getID() == id) {
121             book.returnBook();
122             saveToFile();
123             return;
124         }
125     }
126     cout << "Book not found!\n";
127 }
128
129 void searchByID(int id) {
130     for (auto &book : books) {
131         if (book.getID() == id) {
132             book.displayBook();
```

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Output



```
139 void searchByTitle(string title) {
140     for (auto &book : books) {
141         if (book.getTitle() == title) {
142             book.displayBook();
143             return;
144         }
145     }
146     cout << "Book not found!\n";
147 }
148
149 void displayAllBooks() {
150     cout << "\n--- Library
           Collection ---\n";
151     for (auto &book : books) {
152         book.displayBook();
153     }
154 }
155
```


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main.c...

Output



```
168         cout << "Issued: " << issued <<
           endl;
169     }
170 };
171
172 int main() {
173     Library library;
174     int choice;
175
176     do {
177         cout << "\n===== Library
           Management Menu =====\n";
178         cout << "1. Add Book\n";
179         cout << "2. Issue Book\n";
180         cout << "3. Return Book\n";
181         cout << "4. Search Book by ID\n"
           ;
182         cout << "5. Search Book by
           Title\n";
```



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main.c...

Output



```
187         cin >> choice;
188
189         int id;
190         string title, author;
191
192         switch (choice) {
193             case 1:
194                 cout << "Enter Book ID: ";
195                 cin >> id;
196                 cout << "Enter Title: ";
197                 cin.ignore();
198                 getline(cin, title);
199                 cout << "Enter Author: ";
200                 getline(cin, author);
201                 library.addBook(id, title,
                                author);
202                 break;
203
204             case 2:
```

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main.c...

Output



```
205      cout << "Enter Book ID to  
      Issue: ";  
206      cin >> id;  
207      library.issueBook(id);  
208      break;  
209  
210      case 3:  
211      cout << "Enter Book ID to  
      Return: ";  
212      cin >> id;  
213      library.returnBook(id);  
214      break;  
215  
216      case 4:  
217      cout << "Enter Book ID: ";  
218      cin >> id;  
219      library.searchByID(id);  
220      break;  
221
```

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main.c...

Output



```
223     cout << "Enter Title: ";
224     cin.ignore();
225     getline(cin, title);
226     library.searchByTitle(title
        );
227     break;
228
229     case 6:
230         library.displayAllBooks();
231         break;
232
233     case 7:
234         library.displayStats();
235         break;
236
237     case 8:
238         cout << "Exiting Library
                System...\n";
```

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main.c...

Output



```
===== Library Management Menu =====
```

1. Add Book
2. Issue Book
3. Return Book
4. Search Book by ID
5. Search Book by Title
6. Display All Books
7. Display Stats
8. Exit

```
Enter your choice: 6
```

```
--- Library Collection ---
```

```
===== Library Management Menu =====
```

1. Add Book
2. Issue Book
3. Return Book

My view:

stores, tracks, and updates books automatically

provides information quickly and reliably

represents real-world library operations in an OOP way

Objective:

The code is built to manage a library's collection of books digitally.

It simplifies adding, issuing, returning, and searching for books.

Add new books to the system.

Issue and return books with status updates.

Search books by ID or title.

Show statistics: total books, issued books, and available books.

To replace manual record-keeping with a faster, reliable, and automated solution.

Provides a digital librarian's role.

Reduces errors and saves time.

Easy for both librarians and students to access information.

2. Employee Payroll System

Scenario:

Develop a simple payroll system for a company. The system should calculate and display the salary of employees based on their working hours and hourly rate.

Requirements:

Create a class Employee with attributes like name, ID, hours worked, and hourly rate.

Implement methods to calculate the total salary and generate a salary slip.

Provide functionality to input, update, and delete employee records.

Include a search feature to find employees by their ID.

Allow users to view a list of employees with their salaries and generate a summary report showing the total payroll amount.

Program:

```
#include <iostream>
```

```
#include <vector>
```

```
#include <string>
```

```
using namespace std;
```

```
class Employee {
```

```
private:
```

```
    int id;
```

```
    string name;
```

```
    float hoursWorked;
```

```
float hourlyRate;
```

```
public:
```

```
Employee(int i, string n, float h, float r) {  
    id = i;  
    name = n;  
    hoursWorked = h;  
    hourlyRate = r;  
}
```

```
int getID() { return id; }
```

```
string getName() { return name; }
```

```
float calculateSalary() { return hoursWorked * hourlyRate; }
```

```
void displaySalarySlip() {  
    cout << "\n--- Salary Slip ---\n";  
    cout << "ID: " << id << "\nName: " << name  
        << "\nHours Worked: " << hoursWorked  
        << "\nHourly Rate: " << hourlyRate  
        << "\nTotal Salary: " << calculateSalary() << "\n";  
}
```

```
void update(float h, float r) {  
    hoursWorked = h;  
    hourlyRate = r;  
}
```

```
};
```

```
class PayrollSystem {
```

```
private:
```

```
    vector<Employee> employees;
```

```
public:
```

```
void addEmployee(int id, string name, float hours, float rate) {  
    employees.push_back(Employee(id, name, hours, rate));  
    cout << "Employee added successfully!\n";  
}
```

```
void updateEmployee(int id, float hours, float rate) {  
    for (auto &e : employees) {  
        if (e.getID() == id) {  
            e.update(hours, rate);  
            cout << "Employee updated successfully!\n";  
            return;  
        }  
    }  
}
```



```

    }
}
cout << "Employee not found!\n";
}

void deleteEmployee(int id) {
    for (auto it = employees.begin(); it != employees.end(); ++it) {
        if (it->getID() == id) {
            employees.erase(it);
            cout << "Employee deleted successfully!\n";
            return;
        }
    }
    cout << "Employee not found!\n";
}

void searchEmployee(int id) {
    for (auto &e : employees) {
        if (e.getID() == id) {
            e.displaySalarySlip();
            return;
        }
    }
    cout << "Employee not found!\n";
}

void listEmployees() {
    cout << "\n--- Employee List ---\n";
    for (auto &e : employees) {
        cout << "ID: " << e.getID() << " | Name: " << e.getName()
            << " | Salary: " << e.calculateSalary() << endl;
    }
}

void summaryReport() {
    float total = 0;
    for (auto &e : employees) {
        total += e.calculateSalary();
    }
    cout << "\n--- Payroll Summary ---\n";
    cout << "Total Payroll Amount: " << total << endl;
}
};

```



```

int main() {
    PayrollSystem system;
    int choice, id;
    string name;
    float hours, rate;

    do {
        cout << "\n===== Employee Payroll Menu =====\n";
        cout << "1. Add Employee\n2. Update Employee\n3. Delete Employee\n";
        cout << "4. Search Employee\n5. List Employees\n6. Summary Report\n7. Exit\n";
        cout << "Enter choice: ";
        cin >> choice;

        switch (choice) {
            case 1:
                cout << "Enter ID: "; cin >> id;
                cout << "Enter Name: "; cin.ignore(); getline(cin, name);
                cout << "Enter Hours Worked: "; cin >> hours;
                cout << "Enter Hourly Rate: "; cin >> rate;
                system.addEmployee(id, name, hours, rate);
                break;
            case 2:
                cout << "Enter ID to Update: "; cin >> id;
                cout << "Enter New Hours: "; cin >> hours;
                cout << "Enter New Rate: "; cin >> rate;
                system.updateEmployee(id, hours, rate);
                break;
            case 3:
                cout << "Enter ID to Delete: "; cin >> id;
                system.deleteEmployee(id);
                break;
            case 4:
                cout << "Enter ID to Search: "; cin >> id;
                system.searchEmployee(id);
                break;
            case 5:
                system.listEmployees();
                break;
            case 6:
                system.summaryReport();
                break;
            case 7:
                cout << "Exiting Payroll System...\n";
                break;
        }
    }
}

```

```
        default:
            cout << "Invalid choice! Try again.\n";
        }
    } while (choice != 7);

    return 0;
}
O/p
```

===== Employee Payroll Menu =====

1. Add Employee
2. Update Employee
3. Delete Employee
4. Search Employee
5. List Employees
6. Summary Report
7. Exit

Enter choice: 1

Enter ID: 101

Enter Name: kiruba

Enter Hours Worked: 3

Enter Hourly Rate: 100

Employee added successfully!

===== Employee Payroll Menu =====

1. Add Employee
2. Update Employee
3. Delete Employee
4. Search Employee
5. List Employees
6. Summary Report
7. Exit

Enter choice: 7

Exiting Payroll System...

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main.c...

Output



```
1  #include <iostream>
2  #include <vector>
3  #include <string>
4  using namespace std;
5
6  class Employee {
7  private:
8      int id;
9      string name;
10     float hoursWorked;
11     float hourlyRate;
12
13 public:
14     Employee(int i, string n, float h
        , float r) {
15         id = i;
16         name = n;
17         hoursWorked = h;
```

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main.c...

Output



```
24
25 void displaySalarySlip() {
26     cout << "\n--- Salary Slip
        ---\n";
27     cout << "ID: " << id <<
        "\nName: " << name
28         << "\nHours Worked: " <<
            hoursWorked
29         << "\nHourly Rate: " <<
            hourlyRate
30         << "\nTotal Salary: " <<
            calculateSalary() <<
            "\n";
31 }
32
33 void update(float h, float r) {
34     hoursWorked = h;
35     hourlyRate = r;
36 }
```

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main.c...

Output



```
39 class PayrollSystem {
40 private:
41     vector<Employee> employees;
42
43 public:
44     void addEmployee(int id, string
                        name, float hours, float rate
                        ) {
45         employees.push_back(Employee
                        (id, name, hours, rate));
46         cout << "Employee added
                        successfully!\n";
47     }
48
49     void updateEmployee(int id, float
                        hours, float rate) {
50         for (auto &e : employees) {
51             if (e.getID() == id) {
52                 e.update(hours, rate
```

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main.c...

Output



```
54         return;
55     }
56 }
57     cout << "Employee not
        found!\n";
58 }
59
60 void deleteEmployee(int id) {
61     for (auto it = employees
        .begin(); it != employees
        .end(); ++it) {
62         if (it->getID() == id) {
63             employees.erase(it);
64             cout << "Employee
                deleted
                successfully!\n";
65             return;
66         }
67     }
```


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Output



```
74         e.displaySalarySlip  
            ();  
75         return;  
76     }  
77 }  
78     cout << "Employee not  
            found!\n";  
79 }  
80  
81 void listEmployees() {  
82     cout << "\n--- Employee List  
            ---\n";  
83     for (auto &e : employees) {  
84         cout << "ID: " << e.getID  
            () << " | Name: " <<  
            e.getName()  
85         << " | Salary: " <<  
            e.calculateSalary()
```


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main.c...

Output



```
88
89 void summaryReport() {
90     float total = 0;
91     for (auto &e : employees) {
92         total += e
           .calculateSalary();
93     }
94     cout << "\n--- Payroll
           Summary ---\n";
95     cout << "Total Payroll Amount
           : " << total << endl;
96 }
97 };
98
99 int main() {
100     PayrollSystem system;
101     int choice, id;
102     string name;
```

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main.c...

Output



```
Payroll Menu =====\n";
107      cout << "1. Add Employee\n2.
      Update Employee\n3.
      Delete Employee\n";
108      cout << "4. Search
      Employee\n5. List
      Employees\n6. Summary
      Report\n7. Exit\n";
109      cout << "Enter choice: ";
110      cin >> choice;
111
112      switch (choice) {
113      case 1:
114          cout << "Enter ID: "; cin
              >> id;
115          cout << "Enter Name: ";
              cin.ignore(); getline
              (cin, name);
116          cout << "Enter Name: "
```

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main.c...

Output



```
124         system.updateEmployee(id,  
125             hours, rate);  
126         break;  
127     case 3:  
128         cout << "Enter ID to  
129             Delete: "; cin >> id;  
130         system.deleteEmployee(id  
131             );  
132         break;  
133     case 4:  
134         cout << "Enter ID to  
135             Search: "; cin >> id;  
136         system.searchEmployee(id  
137             );  
138         break;  
139     case 5:  
140         system.listEmployees();  
141         break;  
142     case 6:
```

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Output



```
127         Delete: "; cin >> id;
128         system.deleteEmployee(id
129         );
130         break;
131     case 4:
132         cout << "Enter ID to
133         Search: "; cin >> id;
134         system.searchEmployee(id
135         );
136         break;
137     case 5:
138         system.listEmployees();
139         break;
140     case 6:
141         system.summaryReport();
142         break;
143     case 7:
144         cout << "Exiting Payroll
```

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main.c...

Output



```
===== Employee Payroll Menu =====
```

1. Add Employee
2. Update Employee
3. Delete Employee
4. Search Employee
5. List Employees
6. Summary Report
7. Exit

```
Enter choice: 1
```

```
Enter ID: 101
```

```
Enter Name: kiruba
```

```
Enter Hours Worked: 3
```

```
Enter Hourly Rate: 100
```

```
Employee added successfully!
```

```
===== Employee Payroll Menu =====
```

1. Add Employee
2. Update Employee

Objective:

The code works like a digital payroll officer, ensuring accurate salaries, easy record management, and reduced workload.

My view:

To calculate employee salaries based on working hours and hourly rate.

To store and manage employee details like name, ID, hours worked, and pay rate.

To generate salary slips for employees. To allow adding, updating, searching, and deleting employee records. To digitize payroll management, reducing manual work and errors.