A

PROJECT REPORT

ON

“DOCUMENT MANAGEMENT SYSTEM”

SUBMITTED BY:

Miss. Falle Santoshi Ravindra

PRN:2124UCEF1010

Class: F.Y.B-Tech

SUBJECT:

C++ PROGRAMMING

UNDER THE GUIDANCE OF:

PROFESSOR. ISHWARI TIRSE

Department of Computer Science and Engineering

Sanjivani Rural Education Society’s

SANJIVANI UNIVERSITY

KOPARGAON – 423603, DISTRICT: AHMEDNAGAR

2024-2025

INDEX

INTRODUCTION

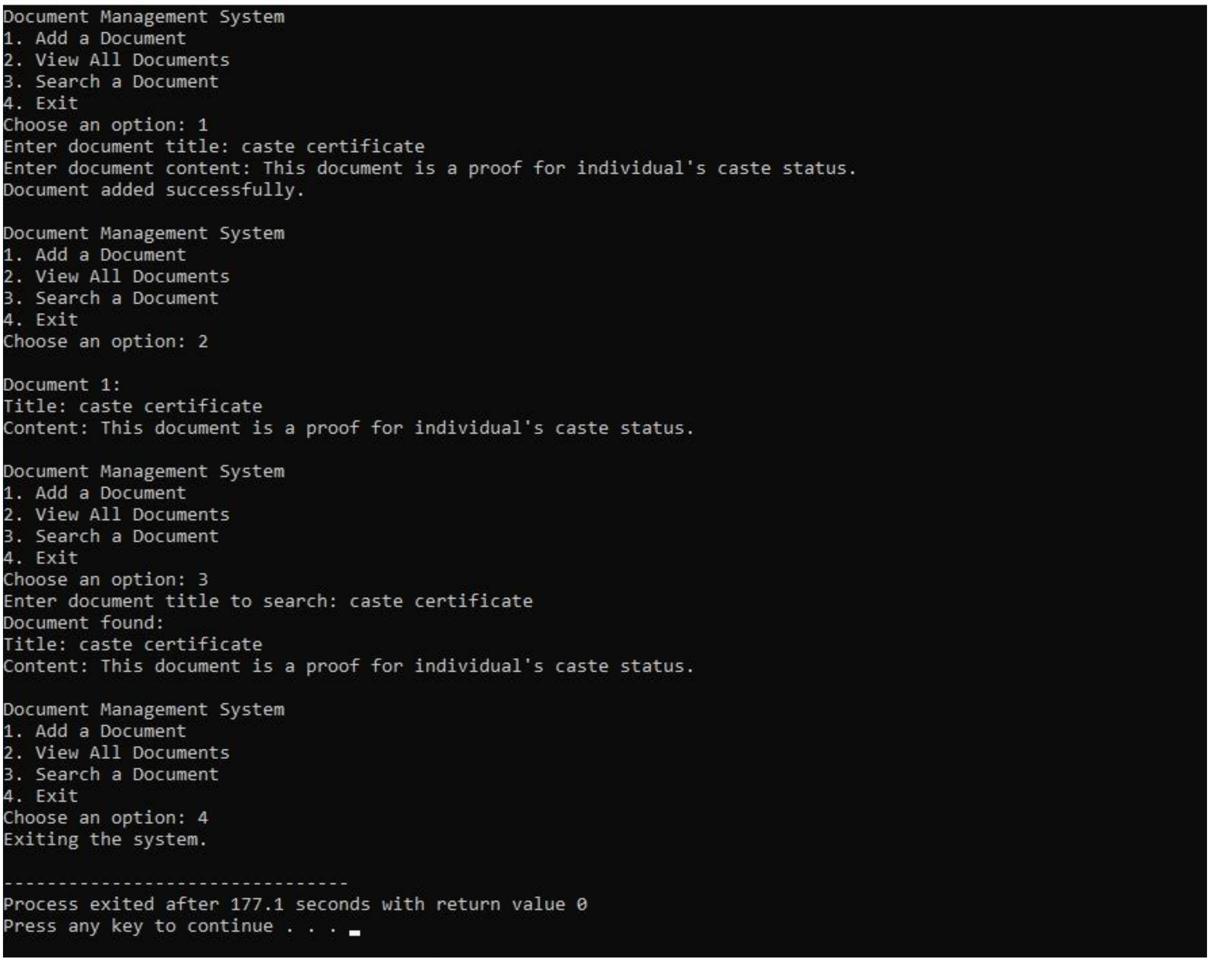
A Document Management System (DMS) is a software solution designed to assist individuals and organizations in efficiently storing, organizing, managing, and retrieving documents. In today's digital world, businesses generate vast amounts of data and documents daily. Managing these documents manually becomes not only tedious but also prone to errors and inefficiency. A DMS automates this process, offering a centralized platform for document storage, version control, search functionality, and user access management, ensuring that important files are accessible while remaining secure. One of the key advantages of a DMS is the ability to store all documents in a single, organized repository, which improves collaboration among team members by enabling seamless sharing of files. Users can quickly search for specific documents using metadata such as titles, keywords, or document types, significantly reducing the time spent hunting for files. A DMS also ensures that only authorized users can access, modify, or delete documents, enhancing data security and minimizing risks of unauthorized access or data breaches. This helps maintain the integrity and confidentiality of sensitive documents. By implementing a Document Management System (DMS) in C++, developers can leverage the language's efficiency and object-oriented programming capabilities to create a high-performance system. The use of C++ enables the creation of robust data structures for managing document records and developing effective search algorithms. Additionally, its performance and memory management advantages make it ideal for systems where speed and scalability are critical. Overall, a DMS built with C++ is a reliable solution that streamlines document handling, improves productivity, and ensures secure document storage and retrieval, making it a valuable tool for any organization.

CODE

```
#include <iostream>
#include <vector>
#include <string>
using namespace std;
class Document {
private:
    string title;
    string content;
public:
    Document(string t, string c) : title(t), content(c) {}
    string getTitle() {
        return title;
    }
    string getContent() {
        return content;
    }
    void displayDocument() {
        cout << "Title: " << title << "\nContent: " << content << endl;
    }
};
class DocumentManagementSystem {
private:
    vector<Document> documents;

public:
    void addDocument(string title, string content) {
        Document newDocument(title, content);
        documents.push_back(newDocument);
        cout << "Document added successfully.\n";
    }
    void viewDocuments() {
        if (documents.empty()) {
            cout << "No documents available.\n";
        } else {
            for (size_t i = 0; i < documents.size(); ++i) {
                cout << "\nDocument " << (i + 1) << ":" << endl;
                documents[i].displayDocument();
            }
        }
    }
     void searchDocument(string title) {
        bool found = false;
        for (size_t i = 0; i < documents.size(); ++i) {
            if (documents[i].getTitle() == title) {
                cout << "Document found:\n";
                documents[i].displayDocument();
                found = true;
                break;
            }
        }
        if (!found) {
            cout << "Document not found.\n";
        }
    }
};
int main() {
    DocumentManagementSystem dms;
    int choice;
    string title, content;
    while (true) {
        cout << "\nDocument Management System\n";
        cout << "1. Add a Document\n";
        cout << "2. View All Documents\n";
        cout << "3. Search a Document\n";
        cout << "4. Exit\n";
        cout << "Choose an option: ";
        cin >> choice;
        cin.ignore();
    switch (choice) {
            case 1:
                cout << "Enter document title: ";
                getline(cin, title);
                cout << "Enter document content: ";
                getline(cin, content);
                dms.addDocument(title, content);
                break;
            case 2:
                dms.viewDocuments();
                break;
            case 3:
                cout << "Enter document title to search: ";
                getline(cin, title);
                dms.searchDocument(title);
                break;
            case 4:
                cout << "Exiting the system.\n";
                return 0;
            default:
                cout << "Invalid choice. Please try again.\n";
        }
     }
}
```

OUTPUT



```
Document Management System
1. Add a Document
2. View All Documents
3. Search a Document
4. Exit
Choose an option: 1
Enter document title: caste certificate
Enter document content: This document is a proof for individual's caste status.
Document added successfully.

Document Management System
1. Add a Document
2. View All Documents
3. Search a Document
4. Exit
Choose an option: 2

Document 1:
Title: caste certificate
Content: This document is a proof for individual's caste status.

Document Management System
1. Add a Document
2. View All Documents
3. Search a Document
4. Exit
Choose an option: 3
Enter document title to search: caste certificate
Document found:
Title: caste certificate
Content: This document is a proof for individual's caste status.

Document Management System
1. Add a Document
2. View All Documents
3. Search a Document
4. Exit
Choose an option: 4
Exiting the system.

--------------------------------
Process exited after 177.1 seconds with return value 0
Press any key to continue . . .
```

CONCLUSION

In conclusion, the Document Management System (DMS) developed in C++ provides a streamlined and secure method for storing, managing, and retrieving documents. With features such as adding, viewing, and searching documents, this system helps organizations handle large volumes of files efficiently. C++ offers an optimal balance of performance and flexibility, making it an excellent choice for building scalable systems. The DMS ensures secure document access, which is critical for protecting sensitive information in today's digital landscape.