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//index sequential file
#include<iostream>
#include<fstream>
#include <sstream>
#include <string>
using namespace std;
class employee
     struct empinfo
    {
        int empid;
        char empName[50];
        char empDesignation[50];
        float empSalary;
    } records;
public :
   void create();
    void Delete(int id);
    void display();
    void print();
};
void employee::print()
{
    cout << "----" << endl;</pre>
    cout << "EMployee ID :" << records.empid << std::endl;</pre>
    cout << "EMployee Name :" << records.empName<< std::endl;</pre>
    cout << "EMployee Designation :" << records.empDesignation<< std::endl;</pre>
    cout << "EMployee Salary :" << records.empSalary<< std::endl;</pre>
}
void employee::create() {
    fstream file;
    fstream indexfile;
    char ch = 'y';
    file.open("employeenew.txt", ios::app | ios::binary);
    indexfile.open("indexnew.txt", ios::app);
    do {
        cout << "Enter employee Id: ";</pre>
        cin >> records.empid;
        cin.ignore(); // clear buffer before getline
        cout << "Enter employee Name: ";</pre>
        cin.getline(records.empName, 50);
        cout << "Enter employee Designation: ";</pre>
        cin.getline(records.empDesignation, 50);
        cout << "Enter employee Salary: ";</pre>
        cin >> records.empSalary;
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file.write((char*)&records, sizeof(records));
        int position = file.tellp();
        indexfile << records.empid << " " << position << endl;</pre>
        cout << "Employee added successfully.\n";</pre>
        cout << "\nDo you want to add more records? (y/n): ";</pre>
        cin >> ch;
    } while (ch == 'y' || ch == 'Y');
    file.close();
    indexfile.close();
}
static int findEmployeePosition(int employeeID) {
    ifstream indexFile("indexnew.txt");
    if (!indexFile) {
        cout << "Error opening index file." << endl;</pre>
        return -1;
    }
    string line;
    while (getline(indexFile, line)) {
        istringstream iss(line);
        int id, position;
        if (iss >> id >> position) {
            if (id == employeeID) {
                return position;
            }
        }
    }
    return -1;
}
void employee::display() {
    int empId;
    cout << "Enter employee ID to display: ";</pre>
    cin >> empId;
    int pos = findEmployeePosition(empId);
    if (pos < 0) {
        cout << "No matching employee record found." << endl;</pre>
        return;
    fstream file("employeenew.txt", ios::in | ios::binary);
    if (!file) {
        cout << "Error opening employee data file." << endl;</pre>
        return;
    }
    file.seekg(pos);
```

```
file.read((char*)&records, sizeof(records));
   print();
    file.close();
}
void employee::Delete(int employeeId)
    // Open the index file
    fstream indexFile("indexnew.txt",ios::in);
    if (!indexFile) {
        cout << "Error opening index file." << endl;</pre>
        return;
    }
    // Open the data file
    fstream file("employeenew.txt", ios::in);
    if (!file) {
        cout << "Error opening data file." << endl;</pre>
        indexFile.close();
        return;
    }
    // Create a temporary file to store updated index entries
    ofstream tempIndexFile("tempIndex.txt",ios::out);
    if (!tempIndexFile) {
        cout << "Error creating temporary index file." << endl;</pre>
        indexFile.close();
        file.close();
        return;
    string line;
    int id;
    int position;
   bool found = false;
    // Read each line from the index file
    while (getline(indexFile, line)) {
        istringstream iss(line);
        if (iss >> id >> position)
            if (id == employeeId)
             {
                found = true;
                // Skip the record by not writing it to the temporary index file
                continue;
            }
        }
        // Write the index entry to the temporary index file
        tempIndexFile << line << endl;</pre>
    }
    // Close the files
    indexFile.close();
    file.close();
    tempIndexFile.close();
```

```
if (!found)
        remove("tempIndexFile.txt");
        cout << "Employee record not found" << endl;</pre>
    }
    else
        remove("indexnew.txt");
        rename("tempIndex.txt", "indexnew.txt");
        cout << "Employee deleted successfully." << endl;</pre>
    // Remove the original index file and rename the temporary index file
int main()
    employee emp;
    int employeeId;
    int choice;
    char ans = 'y';
    do
    {
        cout << "1. Add Employee" << endl;</pre>
        cout << "2. Delete Employee" << endl;</pre>
        cout << "3. Display Employee" << endl;</pre>
        cout << "4. Exit" << endl;</pre>
        cout << " \n Enter your choice" << endl;</pre>
        cin >> choice;
        switch (choice)
        case 1: emp.create();
            break;
        case 2:cout << "Enter employee Id to delete : " << endl;</pre>
             cin >> employeeId;
             emp.Delete(employeeId);
            break;
        case 3:
          emp.display();
            break;
        case 4:
            return 0;
        default:
             cout << "Enter valid choice" << endl;</pre>
            break;
        }
    } while (true);
    return 0;
}
```