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#include <iostream>
#include <fstream>
using namespace std;

// Function to add a new employee record
void writef() {
   int id;
   string name, desg, sal;
   ofstream write;

   cout << "\n--- Add Record ---\n";
   cout << "Enter the Employee ID : "; cin >> id;
   cout << "Enter the Name : "; cin >> name;
   cout << "Enter the Designation : "; cin >> desg;
   cout << "Enter the Salary : "; cin >> sal;

   string file;
   if (id > 0 && id <= 10) file = "1to10.txt";
   else if (id > 10 && id <= 20) file = "11to20.txt";
   else if (id > 20 && id <= 30) file = "21to30.txt";
   else {
      cout << "Invalid ID range. Must be between 1 and 30.\n";
      return;
   }

   write.open(file, ios::app);
   write << id << " " << name << " " << desg << " " << sal << "\n";
   write.close();
   cout << "Record Added Successfully.\n";
}
```

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// Function to display all employee records
void readf() {
    int id;
    string name, desg, sal;
    ifstream read;
    cout << "\n--- Display All Records ---\n";
    string files[] = {"1to10.txt", "11to20.txt", "21to30.txt"};

    for (string file : files) {
        read.open(file);
        while (read >> id >> name >> desg >> sal) {
            cout << "\nID: " << id;
            cout << "\nName: " << name;
            cout << "\nDesignation: " << desg;
            cout << "\nSalary: " << sal << "\n";
        }
        read.close();
    }
}

// Function to search and display a record by Employee ID
void searchByID() {
    int id, temp;
    string name, desg, sal;
    ifstream read;

    cout << "\n--- Display by ID ---\n";
    cout << "Enter Employee ID to search: "; cin >> temp;

    string file;
    if (temp > 0 && temp <= 10) file = "1to10.txt";
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    else if (temp > 10 && temp <= 20) file = "11to20.txt";
    else if (temp > 20 && temp <= 30) file = "21to30.txt";
    else {
        cout << "Invalid ID.\n";
        return;
    }

    bool found = false;
    read.open(file);
    while (read >> id >> name >> desg >> sal) {
        if (id == temp) {
            cout << "\nRecord Found:";
            cout << "\nID: " << id;
            cout << "\nName: " << name;
            cout << "\nDesignation: " << desg;
            cout << "\nSalary: " << sal << "\n";
            found = true;
            break;
        }
    }
    read.close();

    if (!found)
        cout << "Record Not Found.\n";
}

// Function to delete a record based on Employee ID
void deletef() {
    int id, did;
    string name, desg, sal;
    ifstream read;
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ofstream write;

cout << "\n--- Delete Record ---\n";
cout << "Enter Employee ID to delete: "; cin >> did;

string file, tempfile;
if (did > 0 && did <= 10) { file = "1to10.txt"; tempfile = "temp.txt"; }
else if (did > 10 && did <= 20) { file = "11to20.txt"; tempfile = "temp.txt"; }
else if (did > 20 && did <= 30) { file = "21to30.txt"; tempfile = "temp.txt"; }
else {
   cout << "Invalid ID.\n";
   return;
}

bool found = false;
read.open(file);
write.open(tempfile);

while (read >> id >> name >> desg >> sal) {
   if (id == did) {
      found = true;
      continue;
   }
   write << id << " " << name << " " << desg << " " << sal << "\n";
}

read.close();
write.close();

if (found) {
   remove(file.c_str());
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        rename(tempfile.c_str(), file.c_str());
        cout << "Record Deleted Successfully.\n";
    } else {
        remove(tempfile.c_str());
        cout << "Record Not Found.\n";
    }
}

// Main menu
int main() {
    int choice;
    do {
        cout << "\n======= Employee Record Management =======";
        cout << "\n1. Add Record";
        cout << "\n2. Display All Records";
        cout << "\n3. Search by ID";
        cout << "\n4. Delete Record";
        cout << "\n5. Exit";
        cout << "\nEnter your choice: ";
        cin >> choice;

        switch (choice) {
            case 1: writef(); break;
            case 2: readf(); break;
            case 3: searchByID(); break;
            case 4: deletef(); break;
            case 5: cout << "Exiting program.\n"; break;
            default: cout << "Invalid choice! Please try again.\n";
        }
    } while (choice != 5);
```

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    return 0;
}
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