

Project :3

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package Assignmentpractiseproject;

import java.io.BufferedReader;
import java.io.BufferedWriter;
import java.io.File;
import java.io.FileReader;
import java.io.FileWriter;
import java.io.IOException;
import java.util.Scanner;
import java.util.StringTokenizer;abstract

public class EmployeeRecordFileHandling {
    public static void main(String[] args) {
        Scanner strInput = new Scanner(System.in);
        String choice,cont = "y";

        while( cont.equalsIgnoreCase("y") ) {
            System.out.println("\t\t Employee Information System\n\n");

            System.out.println("1 ==> Add New Employee Record ");
            System.out.println("2 ==> View All Employee Record ");
            System.out.println("3 ==> Delete Employee Record ");
            System.out.println("4 ==> Search Specific Record ");
            System.out.println("5 ==> Update Specific Record ");

            System.out.print("\n\n");
            System.out.println("Enter your choice: ");
            choice = strInput.nextLine();

            if( choice.equals("1") ) {
                try {
                    AddRecord();
                } catch (IOException e) {
                    // TODO Auto-generated catch block
                    e.printStackTrace();
                }
            }
            else if( choice.equals("2") ) {
                try {
                    ViewAllRecord();
                } catch (IOException e) {
                    // TODO Auto-generated catch block
                    e.printStackTrace();
                }
            }
            else if( choice.equals("3") ) {
                try {
                    DeleteRecordByID();
                } catch (IOException e) {
                    // TODO Auto-generated catch block
                }
            }
        }
    }
}
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        e.printStackTrace();
    }
} else if( choice.equals("4") ) {
    try {
        SearchRecordbyID();
    } catch (IOException e) {
        // TODO Auto-generated catch block
        e.printStackTrace();
    }
} else if( choice.equals("5") ) {
    try {
        updateRecordbyID();
    } catch (IOException e) {
        // TODO Auto-generated catch block
        e.printStackTrace();
    }
}

System.out.println("Do you want to continue? Y/N");
cont = strInput.nextLine();

}

}

public static void AddRecord() throws IOException {

    BufferedWriter bw = new BufferedWriter( new
FileWriter("records.txt",true) );
    Scanner strInput = new Scanner(System.in);

    String ID, name, age, addr;

    System.out.print("Enter the Employee ID: ");
    ID = strInput.nextLine();
    System.out.print("Enter the Employee Name: ");
    name = strInput.nextLine();
    System.out.print("Enter the Employee Age: ");
    age = strInput.nextLine();
    System.out.print("Enter the Employee Address: ");
    addr = strInput.nextLine();

    bw.write(ID+","+name+","+age+","+addr);
    bw.flush();
    bw.newLine();
    bw.close();

}

public static void ViewAllRecord() throws IOException {
    BufferedReader br = new BufferedReader( new FileReader("records.txt") );

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        String record;

        System.out.println(" -----
----- ");
        System.out.println("|      ID      Name      Age
Address      |");
        System.out.println(" -----
----- ");

        while( ( record = br.readLine() ) != null ) {

            StringTokenizer st = new StringTokenizer(record, ",");

            System.out.println("|      "+st.nextToken()+" "+st.nextToken()+"
st.nextToken()+"st.nextToken()+" |");

        }

        System.out.println("|
|");
        System.out.println(" -----
----- ");
        br.close();

    }

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    public static void DeleteRecordByID() throws IOException {
        Scanner strInput = new Scanner(System.in);
        String ID, record;

        File tempDB = new File("records_temp.txt");
        File db = new File("records.txt");

        BufferedReader br = new BufferedReader( new FileReader( db ) );
        BufferedWriter bw = new BufferedWriter( new FileWriter( tempDB )
);

        System.out.println("\t\t Delete Employee Record\n");

        System.out.println("Enter the Employee ID: ");
        ID = strInput.nextLine();

        while( ( record = br.readLine() ) != null ) {

            if( record.contains(ID) )
                continue;

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        bw.write(record);
        bw.flush();
        bw.newLine();
    }

    br.close();
    bw.close();

    db.delete();

    tempDB.renameTo(db);
}

public static void SearchRecordbyID() throws IOException {
    String ID,record;
    Scanner strInput = new Scanner(System.in);

    BufferedReader br = new BufferedReader( new
FileReader("records.txt") );

    System.out.println("\t\t Search Employee Record\n");

    System.out.println("Enter the Employee ID: ");
    ID = strInput.nextLine();

    System.out.println(" -----
----- ");
    System.out.println(" |      ID      Name
Age      Address      |");
    System.out.println(" -----
----- ");

    while( ( record = br.readLine() ) != null ) {

        StringTokenizer st = new StringTokenizer(record,"");
        if( record.contains(ID) ) {
            System.out.println(" |      "+st.nextToken()+"
"+st.nextToken()+"      "+st.nextToken()+"
|");
        }

    }

    System.out.println(" |
|");
    System.out.println(" -----
----- ");

    br.close();

```

```

public static void updateRecordbyID() throws IOException {
    String newName, newAge, newAddr, record, ID, record2;

    File db = new File("records.txt");
    File tempDB = new File("records_temp.txt");

    BufferedReader br = new BufferedReader( new FileReader(db) );
    BufferedWriter bw = new BufferedWriter( new FileWriter(tempDB) );

    Scanner strInput = new Scanner(System.in);

    System.out.println("\t\t Update Employee Record\n\n");
    /**/
    System.out.println("Enter the Employee ID: ");
    ID = strInput.nextLine();
    System.out.println(" -----
Age                               ID                               Name
Address                           |");
    System.out.println(" -----
");

    while( ( record = br.readLine() ) != null ) {

        StringTokenizer st = new
StringTokenizer(record, ",");

        if( record.contains(ID) ) {
            System.out.println(" |
st.nextToken()+
st.nextToken()+
st.nextToken()+
");
        }

    }
    System.out.println(" |
");
    System.out.println(" -----
");

    br.close();
    /**/
    System.out.println("Enter the new Name: ");
    newName = strInput.nextLine();
    System.out.println("Enter the new Age: ");
    newAge = strInput.nextLine();
    System.out.println("Enter the new Address: ");
    newAddr = strInput.nextLine();

    BufferedReader br2 = new BufferedReader( new FileReader(db) );

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        while( (record2 = br2.readLine() ) != null ) {
            if(record2.contains(ID)) {
                bw.write(ID+","+newName+","+newAge+","+newAddr);
            } else {

                bw.write(record2);
            }
            bw.flush();
            bw.newLine();
        }

        bw.close();
        br2.close();
        db.delete();
        boolean success = tempDB.renameTo(db);
        System.out.println(success);
    }
}

```

Output:

Employee Information System

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1 ==> Add New Employee Record
2 ==> View All Employee Record
3 ==> Delete Employee Record
4 ==> Search Specific Record
5 ==> Update Specific Record

```

Enter your choice:

1

Enter the Employee ID: 2485044

Enter the Employee Name: nikhitha

Enter the Employee Age: 22

Enter the Employee Address: ap

Do you want to continue? Y/N