

File Handling Source Code

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package com.chandana;
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;
public class FileHandling {

    public static void main(String[] args) {
        @SuppressWarnings("resource")
        Scanner strInput = new Scanner(System.in);
        String choice, cont = "YES";

        while( cont.equalsIgnoreCase("YES") ) {
            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("SELECT FROM ABOVE OPTIONS: ");
            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 {
```

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DeleteRecordByID();
} catch (IOException e) {
// TODO Auto-generated catch block
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 :YES/NO");
cont = strInput.nextLine();

}
}

public static void AddRecord() throws IOException {

BufferedWriter bufferwriter = new BufferedWriter( new
FileWriter("records.txt",true) );
@SuppressWarnings("resource")
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();

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

}
}

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

            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();

        }
        public static void DeleteRecordByID() throws IOException {
            @SuppressWarnings("resource")
            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 your Employee ID: ");

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ID = strInput.nextLine();

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

    if( record.contains(ID) )
        continue;

    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;
    @SuppressWarnings("resource")
    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()+" "+st.nextToken()+"|");
        }
    }
}

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    }

    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)

);

    @SuppressWarnings("resource")
    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(" -----");
----- ");
    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()+" "+st.nextToken()+"|");
        }

    }
    System.out.println("| |");
    System.out.println(" -----");
----- 5"
        + "");

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

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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) );

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);
}
}

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