```java
01 package ControlLayer;
02 import ModelLayer.*;
03 import DBLayer.*;
04
05 import java.util.ArrayList;
06
07 public class CTREmployee {
08
09     public CTREmployee() {
10
11     }
12
13     public ArrayList<Employee> findAllEmployees() {
14         IFDBEmployee dbEmp = new DBEmployee();
15         ArrayList<Employee> allEmp = new ArrayList<Employee>();
16         allEmp = dbEmp.getAllEmployees(false);
17         return allEmp;
18     }
19
20     public Employee findByFname(String fname) {
21         IFDBEmployee dbEmp = new DBEmployee();
22         return dbEmp.findEmployeeByFname(fname, true);
23     }
24
25     public Employee findByLname(String lname) {
26         IFDBEmployee dbEmp = new DBEmployee();
27         return dbEmp.findEmployeeByLname(lname, true);
28     }
29
30     public Employee findEmployeeByID(int employeeID) {
31         IFDBEmployee dbEmp = new DBEmployee();
32         return dbEmp.findEmployeeByID(employeeID, true);
33     }
34
35     public int updateEmployee(int employeeID, String fname,
36     String lname, String address, int zipCode, String city, int
37     phoneNo, String email) {
38         IFDBEmployee dbEmp = new DBEmployee();
39         Employee emp = new Employee();
40         emp.setEmployeeID(employeeID);
41         emp.setFname(fname);
42         emp.setLname(lname);
43         emp.setAddress(address);
44         emp.setZipCode(zipCode);
45         emp.setCity(city);
46         emp.setPhoneNo(phoneNo);
47         emp.setEmail(email);
48         return dbEmp.updateEmployee(emp);
49     }
50
51     public void insertEmployee(int employeeID, String fname,
52     String lname, String address, int zipCode, String city, int
53     phoneNo, String email) {
54         Employee empObj = new Employee();
55         empObj.setEmployeeID(employeeID);
56         empObj.setFname(fname);
57         empObj.setLname(lname);
58         empObj.setAddress(address);
59         empObj.setZipCode(zipCode);
60         empObj.setCity(city);
61         empObj.setPhoneNo(phoneNo);
62         empObj.setEmail(email);
63
64         try{
```

```
65              DbConnection.startTransaction();
66              DBEmployee dbEmp = new DBEmployee();
67              dbEmp.insertEmployee(empObj);
68              DbConnection.commitTransaction();
69          }
70      catch(Exception e)
71          {
72              DbConnection.rollbackTransaction();
73          }
74    }
75
76 }
```