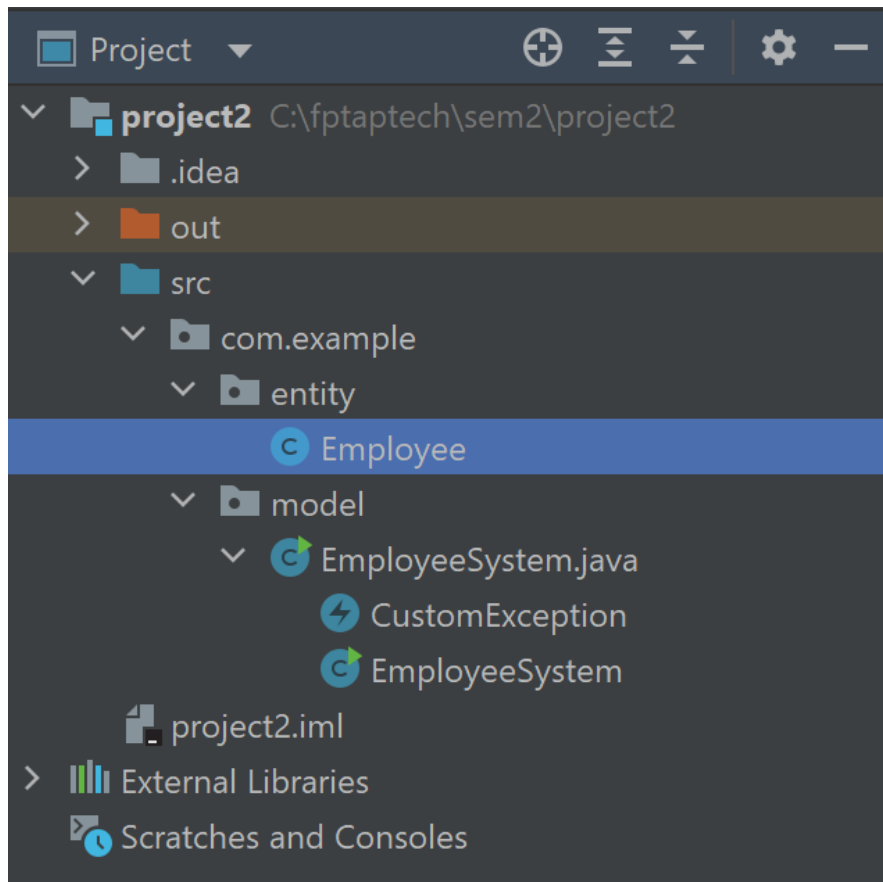


Employee management system

Chương trình có cấu trúc như sau:



Class **Employee.java**

```
Project Employee.java x
1 package com.example.entity;
2
3 public class Employee {
4     private String name;
5     private int age;
6     private int employeeId;
7
8     public Employee(String name, int age, int employeeId) {
9         super();
10        this.name = name;
11        this.age = age;
12        this.employeeId = employeeId;
13    }
14
15    public String getName() { return name; }
16
17
18    public void setName(String name) { this.name = name; }
19
20
21    public int getAge() { return age; }
22
23    public void setAge(int age) { this.age = age; }
24
25
26    public int getEmployeeId() { return employeeId; }
27
28    public void setEmployeeId(int employeeId) { this.employeeId = employeeId; }
29
30
31    @Override
32    public String toString() {
33        return "com.example.model.Employee [name=" + name + ", age=" + age + ", employeeId=" + employeeId + "];"
34    }
35
36
37
38
39
40
41
42
43
44
Structure
```

Class EmployeeSystem.java

```
Project EmployeeSystem.java x
1 package com.example.model;
2
3 import com.example.entity.Employee;
4
5 import java.util.HashMap;
6 import java.util.Map;
7 import java.util.Scanner;
8
9 class CustomException extends Exception {
10
11     private static final long serialVersionUID = 1L;
12
13     public CustomException(String str) {
14         super();
15         System.out.println(str);
16         EmployeeSystem.operations();
17     }
18 }
19
20 public class EmployeeSystem {
21
22     public static Map<Integer, Employee> map = new HashMap<>();
23
24     public static void addEmployee(String name, int age, int id) {
25         Employee emp = new Employee(name, age, id);
26         map.put(id, emp);
27
28         operations();
29     }
30
31
32
33
34
35
36
37
38
39
40
Structure Bookmarks
```

```

31 public static void deleteEmployee(int EmpId) throws CustomException {
32     if (map.containsKey(EmpId)) {
33         map.remove(EmpId);
34         System.out.println("Successfully Deleted from the List !!");
35     } else {
36         throw new CustomException("Not Found Exception");
37     }
38
39     operations();
40 }
41
42 public static void searchEmployee(int EmpId) throws CustomException {
43     if (map.containsKey(EmpId)) {
44         // map.get(EmpId);
45         System.out.println("Employee Details :- " + map.get(EmpId));
46     } else {
47         throw new CustomException("Not Found Exception");
48     }
49
50     operations();
51 }
52
53 public static void employeeList() {
54     System.out.println(map.toString());
55 }

```

```

57 public static void operations() {
58     System.out.println("\n***** Employee management system *****");
59     System.out.println("1. Add Employee");
60     System.out.println("2. Delete Employee");
61     System.out.println("3. Search Employee");
62     System.out.println("4. Employee List");
63
64     Scanner scanner = new Scanner(System.in);
65     int userInput = scanner.nextInt();
66
67     if (userInput == 1) {
68         System.out.println("Enter Employee Details(Name, age , Id)");
69         Scanner scanner1 = new Scanner(System.in);
70
71         String name = scanner1.next();
72         int age = scanner1.nextInt();
73         int id = scanner1.nextInt();
74
75         if (!name.equals("") && age != 0 && id != 0) {
76             addEmployee(name, age, id);
77         }
78     } else if (userInput == 2) {
79         System.out.println("Enter Employee Id");
80         Scanner scanner2 = new Scanner(System.in);
81
82         int EmpId = scanner2.nextInt();
83

```

```

84         try {
85             deleteEmployeee(EmpId);
86         } catch (CustomException e) {
87             // e.printStackTrace();
88         }
89
90     } else if (userInput == 3) {
91         System.out.println("Enter Employee Id");
92         Scanner scanner3 = new Scanner(System.in);
93
94         int EmpId = scanner3.nextInt();
95
96         try {
97             searchEmployeee(EmpId);
98         } catch (CustomException e) {
99             // e.printStackTrace();
100         }
101
102         operations();
103     } else if (userInput == 4) {
104         employeeeList();
105
106         operations();
107     }
108 }
109

```

```

110 public static void main(String[] args) {
111     operations();
112 }
113 }
114
115

```