



JNCT
LNCT Group of Colleges

Object Oriented Programming Methodology Case Study

EMPLOYEE CLASS HIERARCHY

TEAM NAME - CODEBUZZERS

Team members 3rd sem

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OOPM CASE STUDY

EMPLOYEE CLASS

HIERARCHY

CONTENT

- ❖ Need of case study
- ❖ Objective of case study
- ❖ Study of case study
- ❖ Advantage and disadvantage of case study
- ❖ Proposal of case study
- ❖ Input and output of case study

OOPM CASE STUDY

EMPLOYEE CLASS HIERARCHY

Need of case study

EMPLOYEE HIERARCHY OF NEEDS



OOPM CASE STUDY

EMPLOYEE CLASS HIERARCHY

Advantages & Disadvantages of case study

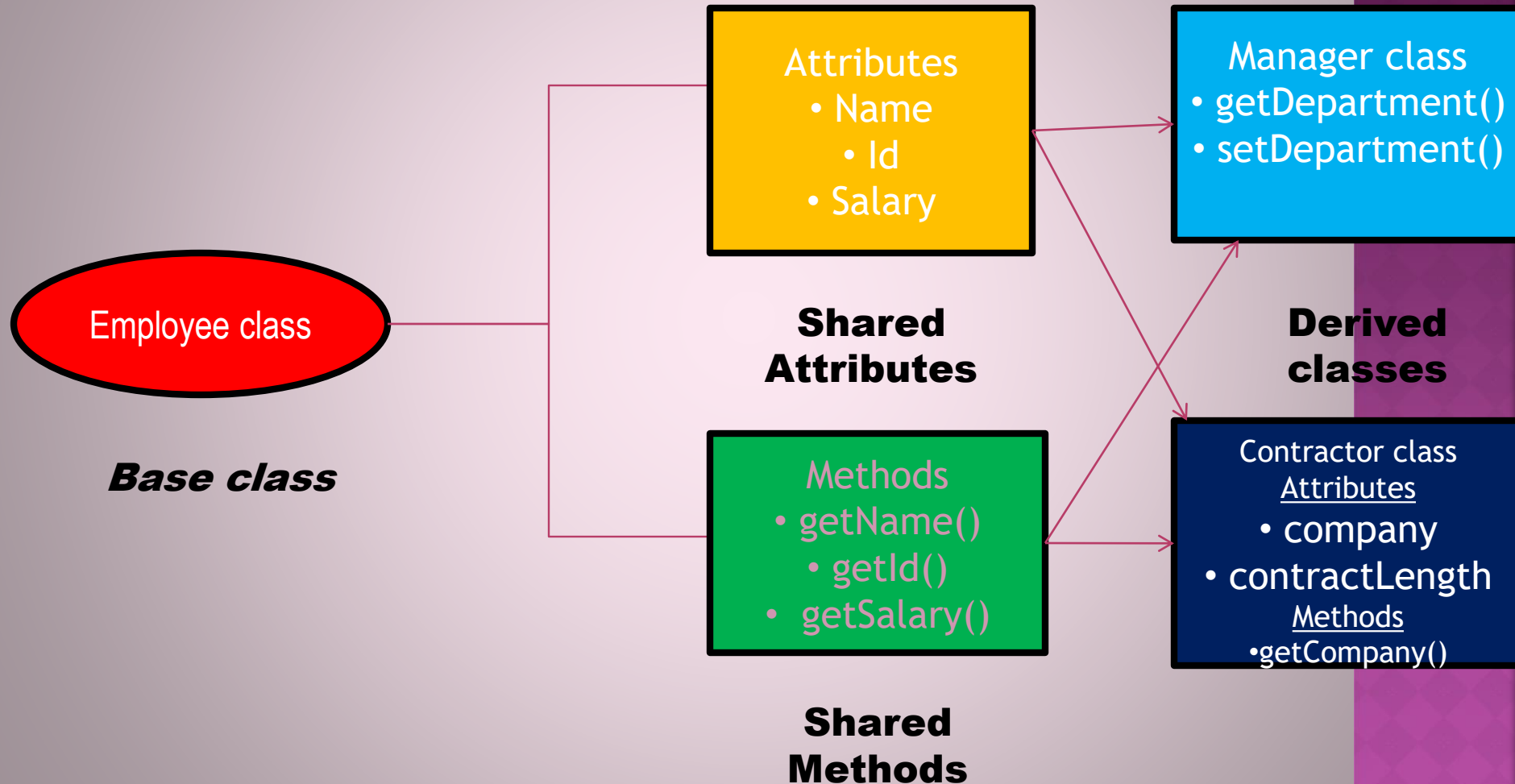
- ◉ Advantages
- ◉ Clear line of authority
- ◉ Clear lines of communication
- ◉ Clear results
- ◉ Disadvantages
- ◉ Isolation and siloed thinking
- ◉ Centralization of power
- ◉ Endless red tape

OOPM CASE STUDY

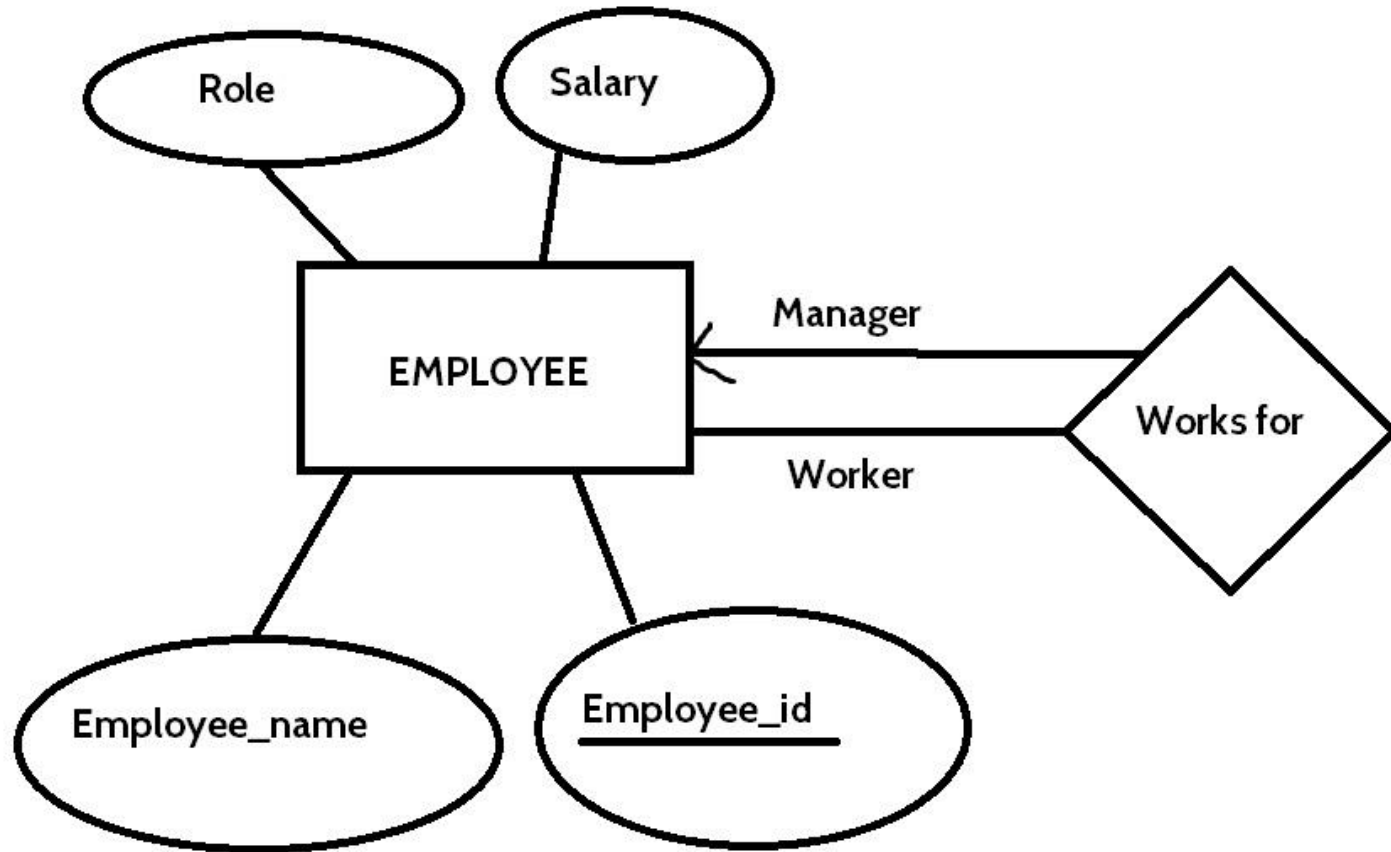
EMPLOYEE CLASS HIERARCHY *RELATED STUDY*

- Some online platforms specialize in hosting and sharing case studies across different industries. These platforms may offer free or paid access to a variety of case studies. While some case studies are freely available, others may require purchase or access through a subscription.
- Yes, Google is a powerful search engine that indexes a vast amount of information available on the internet, including case studies from various sources. The availability of case studies on Google may vary, and some case studies may be accessible directly, while others may require access through specific websites or databases.
- The term "case study" can refer to a variety of materials, and whether a case study is ready to use depends on its source and purpose. However, there are instances where case studies may not be immediately ready to use.
- Using a recursive CTE to traverse an employee hierarchy by YugabyteDB Docs: This article describes a case study of how to use a recursive Common Table Expression (CTE) to traverse an employee hierarchy and retrieve information about all of the employees in the hierarchy.
 - The link to the article "using a recursive CTE to traverse an employee hierarchy" by YugabyteDB Docs is:
 - <https://docs.yugabyte.com/preview/api/ysql/the-sql-language/with-clause/emps-hierarchy/>

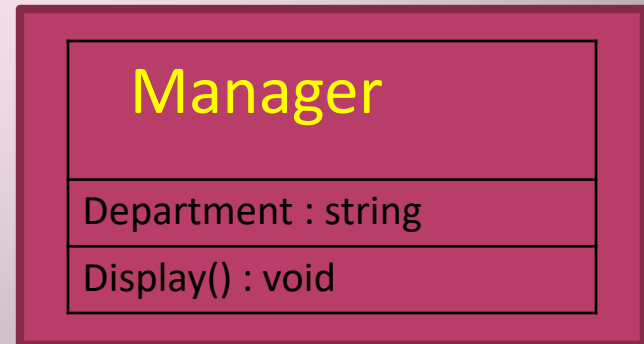
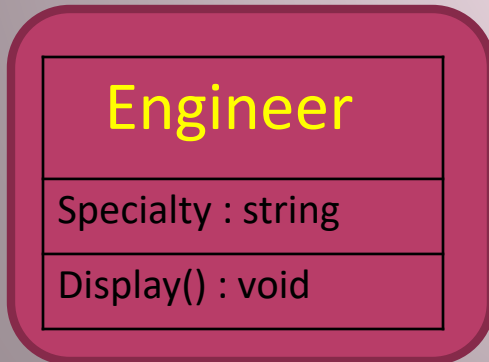
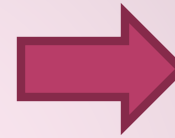
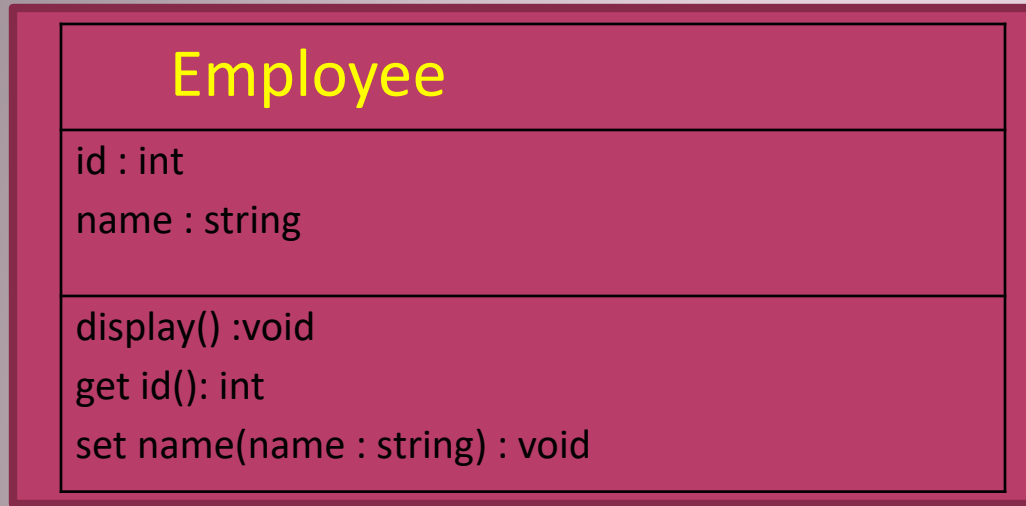
• DESIGN FLOW DIAGRAM

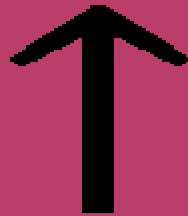


•DESIGN ER DIAGRAM



EXPLAIN CASE STUDY USING CLASS-OBJECT DIAGRAM





Employee Database

Employees : vector<Employee*>

Add employee (emp : Employee*) : void

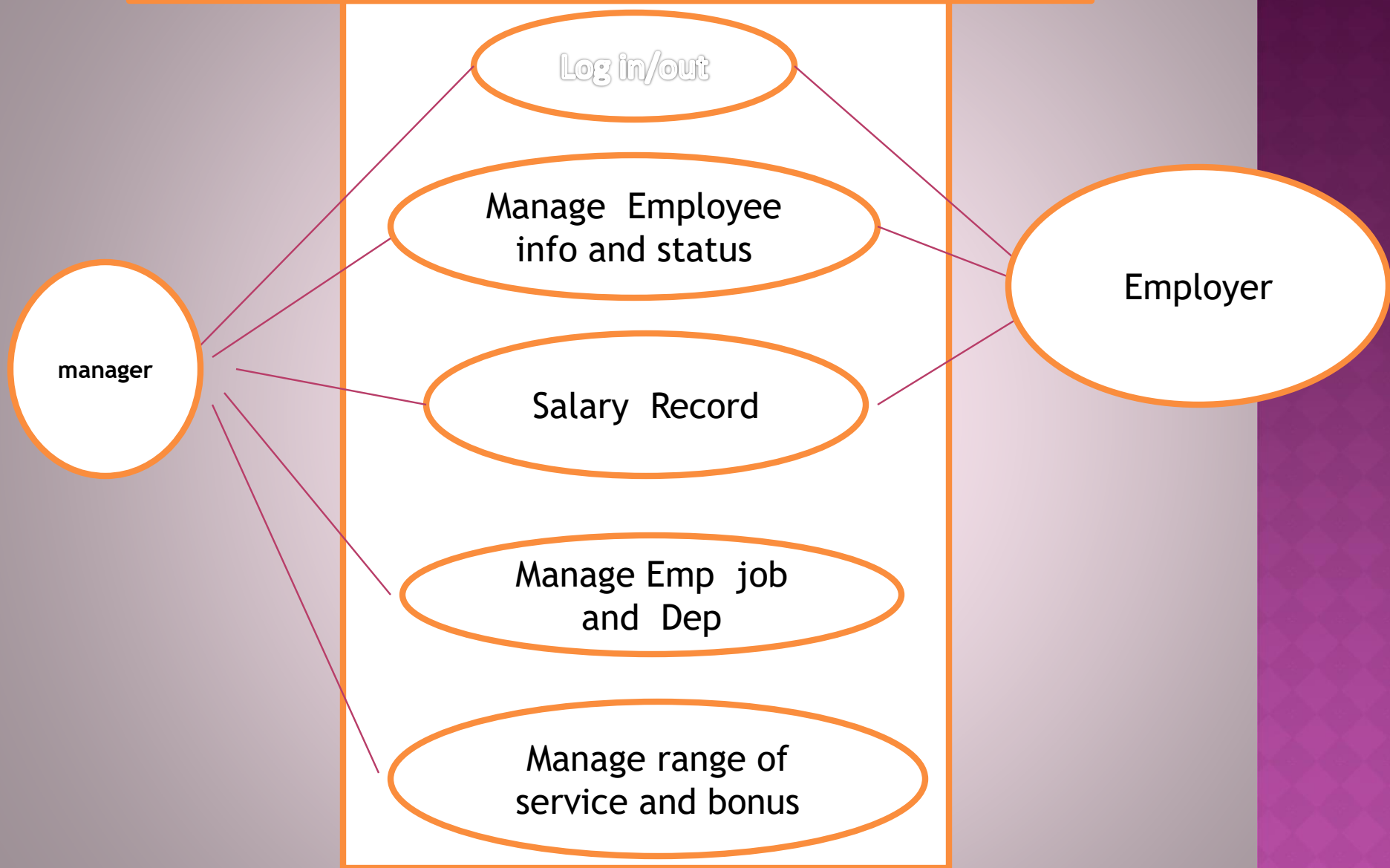
Remove employee(id : int) : void

Find employee (id : int) : employee*

Update employee (id : int , new name : string) :
void

Display all employees () : void

USE CASE DIAGRAM



INPUT & OUTPUT FLOW OF CASE STUDY

EMPLOYEE DATABASE SYSTEM

Enter code:1 for adding employee

Menu:

1. Add Employee
2. Display All Employees
3. Search Employee
4. Update Employee
5. Remove Employee
6. Exit

Enter your choice: 1

Enter employee details:

ID: 113121Em

Name: Manoj kumar

Enter employee type (1 for Manager, 2 for Engineer): 1

Department: sales

Menu:

1. Add Employee
2. Display All Employees
3. Search Employee
4. Update Employee
5. Remove Employee
6. Exit

Enter your choice: 1

Enter employee details:

ID: 1243Em

Name: jaya joseph

Enter employee type (1 for Manager, 2 for Engineer): 2

Specialty: data engineer

INPUT & OUTPUT FLOW OF CASE STUDY

○ Front page

Our screen will display like as:

There will be 6 options and there will be option to enter choice.

```
/tmp/7EjW5PJcqf.o
Welcome to Employee Database system
Menu:
1. Add Employee
2. Display All Employees
3. Search Employee
4. Update Employee
5. Remove Employee
6. Exit
Enter your choice:
```

INPUT & OUTPUT FLOW OF CASE STUDY

EMPLOYEE DATABASE SYSTEM

Enter code: 2 for display of all employees

Menu:

1. Add Employee
2. Display All Employees
3. Search Employee
4. Update Employee
5. Remove Employee
6. Exit

Enter your choice: 2

All Employees:

ID: 1131, Name: Manoj kumar, Department: sales

ID: 131, Name: jaya joseph, Specialty: data engineer

INPUT & OUTPUT FLOW OF CASE STUDY

EMPLOYEE DATABASE SYSTEM

Enter code : 3 for search an Employee

Menu:

1. Add Employee
2. Display All Employees
3. Search Employee
4. Update Employee
5. Remove Employee
6. Exit

Enter your choice: 3

Enter employee ID to search: 1131em

Employee found: ID: 1131, Name: Manoj kumar, Department: sales

INPUT & OUTPUT FLOW OF CASE STUDY

EMPLOYEE DATABASE SYSTEM

Enter code:4 update Employee

Menu:

1. Add Employee
2. Display All Employees
3. Search Employee
4. Update Employee
5. Remove Employee
6. Exit

Enter your choice: 1

Enter employee details:

ID: 1131em

Name: manoj kumar

Enter employee type (1 for Manager, 2 for Engineer): 1

Department: sales

Menu:

1. Add Employee
2. Display All Employees
3. Search Employee
4. Update Employee
5. Remove Employee
6. Exit

Enter your choice: 4

Enter employee ID to update: 1131em

Enter new name: Ravindra J

INPUT & OUTPUT FLOW OF CASE STUDY

EMPLOYEE DATABASE SYSTEM

Enter code: 5 for removing an employee

Menu:

1. Add Employee
2. Display All Employees
3. Search Employee
4. Update Employee
5. Remove Employee
6. Exit

Enter your choice: 5

Enter employee ID to remove: 1131em

Menu:

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EMPLOYEE CLASS HIERARCHY



Code BuZzers

Team members 3rd
sem

Leader name - Astha jain
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