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My name: Quy Binh Nguyen

My student number: 7613623

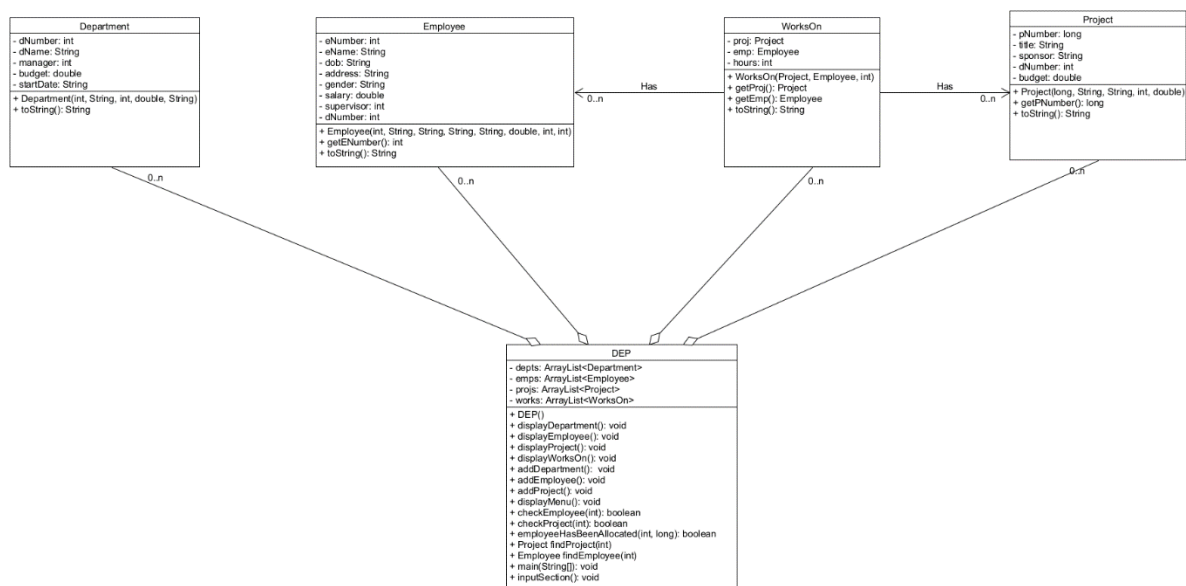
My course code: CSIT121

My email address: qbinhhh164@gmail.com / qbn774@uowmail.edu.au

Assignment number: 1

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### (1) UML class diagram



### (3) Compilation and test

Microsoft Windows [Version 10.0.22621.1413]

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C:\Users\qbinh>cd C:\Users\qbinh\OneDrive\Tài liệu\128\Lab CSIT121\ASM CSIT121

C:\Users\qbinh\OneDrive\Tài liệu\128\Lab CSIT121\ASM CSIT121>javac Department.java

C:\Users\qbinh\OneDrive\Tài liệu\128\Lab CSIT121\ASM CSIT121>javac Employee.java

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C:\Users\qbinh\OneDrive\Tài liệu\128\Lab CSIT121\ASM CSIT121>javac Project.java
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C:\Users\qbinh\OneDrive\Tài liệu\128\Lab CSIT121\ASM CSIT121>javac WorksOn.java
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C:\Users\qbinh\OneDrive\Tài liệu\128\Lab CSIT121\ASM CSIT121>javac DEP.java
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C:\Users\qbinh\OneDrive\Tài liệu\128\Lab CSIT121\ASM CSIT121>java DEP
```

1. Display all departments.
2. Display all employees.
3. Display all projects.
4. Display information for employees who works on projects.
5. Add a record for an employee who works on a project.
0. Exit.

Input a choice (0-5):1

Department number: 1, Department name: SALES, Manager number: 110, Budget: 1234.0, Manager start date: 02/01/2012

Department number: 2, Department name: ACCOUNTING, Manager number: 120, Budget: 5566789.5, Manager start date: 30/10/2010

Department number: 3, Department name: GAMES, Manager number: 150, Budget: 100000.0, Manager start date: 01/03/2008

Department number: 4, Department name: HUMAN RESOURCES, Manager number: 200, Budget: 500000.0, Manager start date: 02/01/2013

Department number: 5, Department name: SPORTS, Manager number: 250, Budget: 8500000.0, Manager start date: 10/05/2010

Department number: 6, Department name: RESEARCH, Manager number: 300, Budget: 45500.0, Manager start date: 10/06/2020

Department number: 7, Department name: EDUCATION, Manager number: 350, Budget: 100000.0,  
Manager start date: 10/07/2019

Department number: 8, Department name: FINANCE, Manager number: 500, Budget: 8400000.0,  
Manager start date: 10/08/2022

Department number: 9, Department name: COMPUTING, Manager number: 600, Budget: 90000.0,  
Manager start date: 10/09/2018

1. Display all departments.
2. Display all employees.
3. Display all projects.
4. Display information for employees who works on projects.
5. Add a record for an employee who works on a project.
0. Exit.

Input a choice (0-5):2

Employee number: 600, Employee name: Willy, Date of birth: 01/01/1988, Address: 41 Station  
Street, Wollongong, NSW 2500, Gender: M, Salary: 250.5, Supervisor number: 0, Department  
number: 9

Employee number: 700, Employee name: Zhi, Date of birth: 12/09/1999, Address: 112 Smith Street,  
Windang, NSW 2525, Gender: M, Salary: 80.2, Supervisor number: 600, Department number: 9

Employee number: 800, Employee name: Mary, Date of birth: 03/10/2000, Address: 26 Gibsons  
Road, Figtree, NSW 2525, Gender: F, Salary: 50.0, Supervisor number: 700, Department number: 9

Employee number: 500, Employee name: Angelina, Date of birth: 20/11/1990, Address: 25 Bong  
Bong Road, Horsley, NSW 2530, Gender: F, Salary: 250.0, Supervisor number: 0, Department  
number: 8

Employee number: 510, Employee name: Anna, Date of birth: 20/11/1990, Address: 200 Cemetary  
Road, Hawea, NSW 2800, Gender: F, Salary: 100.0, Supervisor number: 500, Department number: 8

Employee number: 520, Employee name: Madelaine, Date of birth: 20/11/1990, Address: 23 Lake View Street, Figtree, NSW 2525, Gender: F, Salary: 50.0, Supervisor number: 510, Department number: 8

Employee number: 530, Employee name: Robert, Date of birth: 20/11/1990, Address: 80 Penny Road, Windang, NSW 2520, Gender: M, Salary: 50.0, Supervisor number: 510, Department number: 8

Employee number: 540, Employee name: Claudio, Date of birth: 20/11/1990, Address: 23 Horsley Street, Unanderra, NSW 2528, Gender: M, Salary: 50.0, Supervisor number: 510, Department number: 8

Employee number: 350, Employee name: Brian, Date of birth: 13/05/1965, Address: 23 Station Street, Wollongong, NSW 2500, Gender: M, Salary: 200.4, Supervisor number: 0, Department number: 7

Employee number: 110, Employee name: Alvin, Date of birth: 13/10/1977, Address: 56 Marlo Road, Wollongong, NSW 2500, Gender: M, Salary: 156.4, Supervisor number: 100, Department number: 1

1. Display all departments.
2. Display all employees.
3. Display all projects.
4. Display information for employees who works on projects.
5. Add a record for an employee who works on a project.
0. Exit.

Input a choice (0-5):3

Project number: 1001, Project title: Computation, Sponsor: Microsoft, Department number: 8, Project budget: 25000.0

Project number: 1002, Project title: Study methods, Sponsor: Education committee, Department number: 3, Project budget: 15000.0

Project number: 1003, Project title: Racing car, Sponsor: Cloud Pty Ltd, Department number: 3, Project budget: 225000.0

Project number: 1004, Project title: Football, Sponsor: Football Club, Department number: 5, Project budget: 35000.0

Project number: 1005, Project title: Swimming, Sponsor: Education Committee, Department number: 5, Project budget: 125000.0

Project number: 1006, Project title: Database, Sponsor: Database Committee, Department number: 5, Project budget: 125000.0

1. Display all departments.
2. Display all employees.
3. Display all projects.
4. Display information for employees who works on projects.
5. Add a record for an employee who works on a project.
0. Exit.

Input a choice (0-5):4

1. Display all departments.
2. Display all employees.
3. Display all projects.
4. Display information for employees who works on projects.
5. Add a record for an employee who works on a project.
0. Exit.

Input a choice (0-5):5

Input an employee number: 100

The employee 100 does not exist.

1. Display all departments.
2. Display all employees.
3. Display all projects.
4. Display information for employees who works on projects.
5. Add a record for an employee who works on a project.

0. Exit.

Input a choice (0-5):5

Input an employee number: 500

Input a project number: 1000

The project 1000 does not exist.

1. Display all departments.

2. Display all employees.

3. Display all projects.

4. Display information for employees who works on projects.

5. Add a record for an employee who works on a project.

0. Exit.

Input a choice (0-5):5

Input an employee number: 500

Input a project number: 1004

Input total hours: 10

1. Display all departments.

2. Display all employees.

3. Display all projects.

4. Display information for employees who works on projects.

5. Add a record for an employee who works on a project.

0. Exit.

Input a choice (0-5):5

Input an employee number: 500

Input a project number: 1004

The employee 500 has already been allocated to the project 1004

1. Display all departments.

2. Display all employees.

3. Display all projects.

4. Display information for employees who works on projects.

5. Add a record for an employee who works on a project.

0. Exit.

Input a choice (0-5):5

Input an employee number: 500

Input a project number: 1005

Input total hours: 20

1. Display all departments.

2. Display all employees.

3. Display all projects.

4. Display information for employees who works on projects.

5. Add a record for an employee who works on a project.

0. Exit.

Input a choice (0-5):4

Project number: 1004, Project title: Football, Sponsor: Football Club, Department number: 5, Project budget: 35000.0

Employee number: 500, Employee name: Angelina, Date of birth: 20/11/1990, Address: 25 Bong Bong Road, Horsley, NSW 2530, Gender: F, Salary: 250.0, Supervisor number: 0, Department number: 8

Hours: 10

Project number: 1005, Project title: Swimming, Sponsor: Education Committee, Department number: 5, Project budget: 125000.0

Employee number: 500, Employee name: Angelina, Date of birth: 20/11/1990, Address: 25 Bong Bong Road, Horsley, NSW 2530, Gender: F, Salary: 250.0, Supervisor number: 0, Department number: 8

Hours: 20

1. Display all departments.
2. Display all employees.
3. Display all projects.
4. Display information for employees who works on projects.
5. Add a record for an employee who works on a project.
0. Exit.

Input a choice (0-5):0

Bye

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