Jeremy Scheuerman

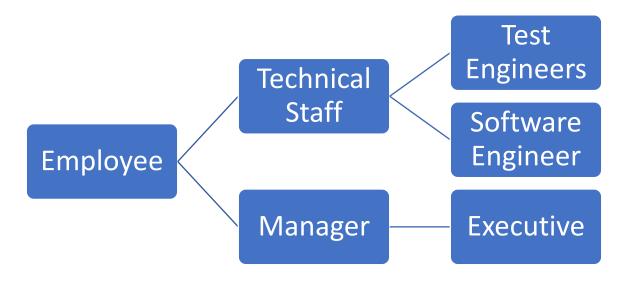
COSC 220

Dr. Wang

17-March-2021

Lab 8 writeup

Hierarchy Chart (Rough draft I before UML diagram)



^{*}UML does not contain getters and setters due to repetitiveness it is unnecessary

Employee -firstname:String -lastname:String -basesalary:double -jobTitle:String +CalculateSalary():double +displaybaseSalary():void +displayJobTitle():void +displayInfo():void **Technical Staff** Manager -profitShare:double -bonus:double +CalculateSalary():double +CalculateSalary():double +displayProfitShare():void +displayBonus():void +displayJobTitle():void +displayInfo():void +displayInfo():void Executive Software Engineer Test Engineer -stockShare:float -Overtime:String +CalculateSalary():double +CalculateSalary():double +CalculateSalary():double +displayInfo():void +displayStockOption():void +displayOvertime():void +displayInfo():void +displayInfo():void

Output and Testing

Linking process

```
root@DESKTOP-Q5H0GRD:/mnt/d/Documents/School/Year3 semester 2/Cosc 220 computer science 2/labs/Lab_8 - DX
root@DESKTOP-Q5H0GRD:/mnt/d/Documents/School/Year 3 semester 2/Cosc 220
computer science 2/labs/Lab_8# g++ -c Lab_8.cpp
root@DESKTOP-Q5H0GRD:/mnt/d/Documents/School/Year 3 semester 2/Cosc 220
computer science 2/labs/Lab_8# g++ -c Lab_8main.cpp
root@DESKTOP-Q5H0GRD:/mnt/d/Documents/School/Year 3 semester 2/Cosc 220
computer science 2/labs/Lab_8# g++ -c Lab_8main.cpp
root@DESKTOP-Q5H0GRD:/mnt/d/Documents/School/Year 3 semester 2/Cosc 220
computer science 2/labs/Lab_8#
```

root@DESKTOP-Q5H0GRD:/mnt/d/Documents/School/Year 3 semester 2/Cosc 220 computer science 2/labs/Lab_8# g++ -o lab8 Lab_8.o Lab_8main.o

The first set of output

Info
First:Bill
Last:Muhlenfeld
Title:CFO
Salary:100000

Info
First:Kevin
Last:Weller
Title:Head Developer
Salary:150000

Info
First:Andrew
Last:McGinnity
Title:Head Tester
Salary:1.5e+06

This displays only the base class print functions

Second set of output

Info
First:Bill
Last:Muhlenfeld
Title:CFO
Salary:100000
Bonus:6500

Info
First:Kevin
Last:Weller
Title:Head Developer
Salary:150000
Profit Share:350010000

Info
First:Andrew
Last:McGinnity
Title:Head Tester
Salary:1.5e+06
Profit Share:4500

The second set of output is the print function from the derived class which includes bonus and profit share