# ECS414U/A Miniproject form

Queen Mary University of London

2021/22

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| Name | Abdussamed Han |
| Student ID | 210296435 |
| Submitted file name | OOPMiniProject |
| Level of this program (1, 2, 3, Extra) | 2/3 |

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| Brief description of the program. Write the chosen theme and a high-level overview of the features (two or three sentences should suffice). |
| This program is a business software dashboard which allows the user to add new employees to the business, retrieve all the employees or employees of specific departments, get singular employee information, allow sales employees to sell products or arrange meetings, get all the sales of the business or the sales from a particular sales employee. It also allows hr employees to hire and fire employees or give benefits to employees. The manager of the business can also be changed. |

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| List all your source code files, and briefly describe their roles. Add as many rows as necessary. Mark the main file used for compilation in bold. | |
| File name | Description |
| **Main.java** | MAIN CLASS WHERE ALL THE USER INTERACTION AND METHOD CALLS ARE MADE. THIS CONSISTS OF METHODS ALLOWING USER INPUT AND ACCESSING THE EmployeeRegistry CLASS TO INTERACT WITH THE OTHER CLASSES |
| EmployeeRegistry.java | EmployeesRegistry CLASS THAT ALLOWS THE MAIN CLASS TO ACCESS DATA AND METHODS IN THE SUBCLASSES VIA THIS CLASS. ALLOWS THE USER TO MANIPULATE DATA THROUGHOUT THE PROGRAM USING VARIOUS METHODS |
| Employee.java | Employee CLASS THAT HOLDS DATA ON ALL TYPES OF EMPLOYEES AND HAS GETTER METHODS FOR ALL THE FIELDS OF THE CLASS |
| Sales.java | THIS IS THE SALES CLASS WHICH IS A SUBCLASS OF THE EMPLOYEE CLASS AND INHERITS THE NAME FROM THE SUPERCLASS THIS CLASS ALSO HAS UNIQUE METHODS FOR THE SALES EMPLOYEES |
| HR.java | THIS IS THE HR CLASS WHICH IS A SUBCLASS OF THE EMPLOYEE CLASS AND INHERITS THE NAME FROM THE SUPERCLASS THIS CLASS ALSO HAS UNIQUE METHODS FOR THE HR EMPLOYEES |
| Manager.java | THIS IS THE MANAGER CLASS WHICH IS A SUBCLASS OF THE EMPLOYEE CLASS AND INHERITS THE NAME FROM THE SUPERCLASS THIS CLASS ALSO HAS A UNIQUE METHOD FOR THE MANAGER EMPLOYEE |

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| Class diagram, in the format specified in the instructions. |
| Diagram  Description automatically generated |

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| Usage instructions. Describe briefly what features are available to the user and how to use them. If File I/O is used, list and describe the files involved. |
| The program will compile with *javac Main.java* and run with *java Main* commands in the terminal.  You will be shown a menu which will prompt you with an integer input to navigate through the program. You should first add employees to use the methods for them. |

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| Other comments. |
| Polymorphism is used in the *employSomeone* method in the Main class with the lines:  Employee e = new Sales(name);  And  Employee e = new HR(name); |