

Add Employee and Allocate Employee to Task

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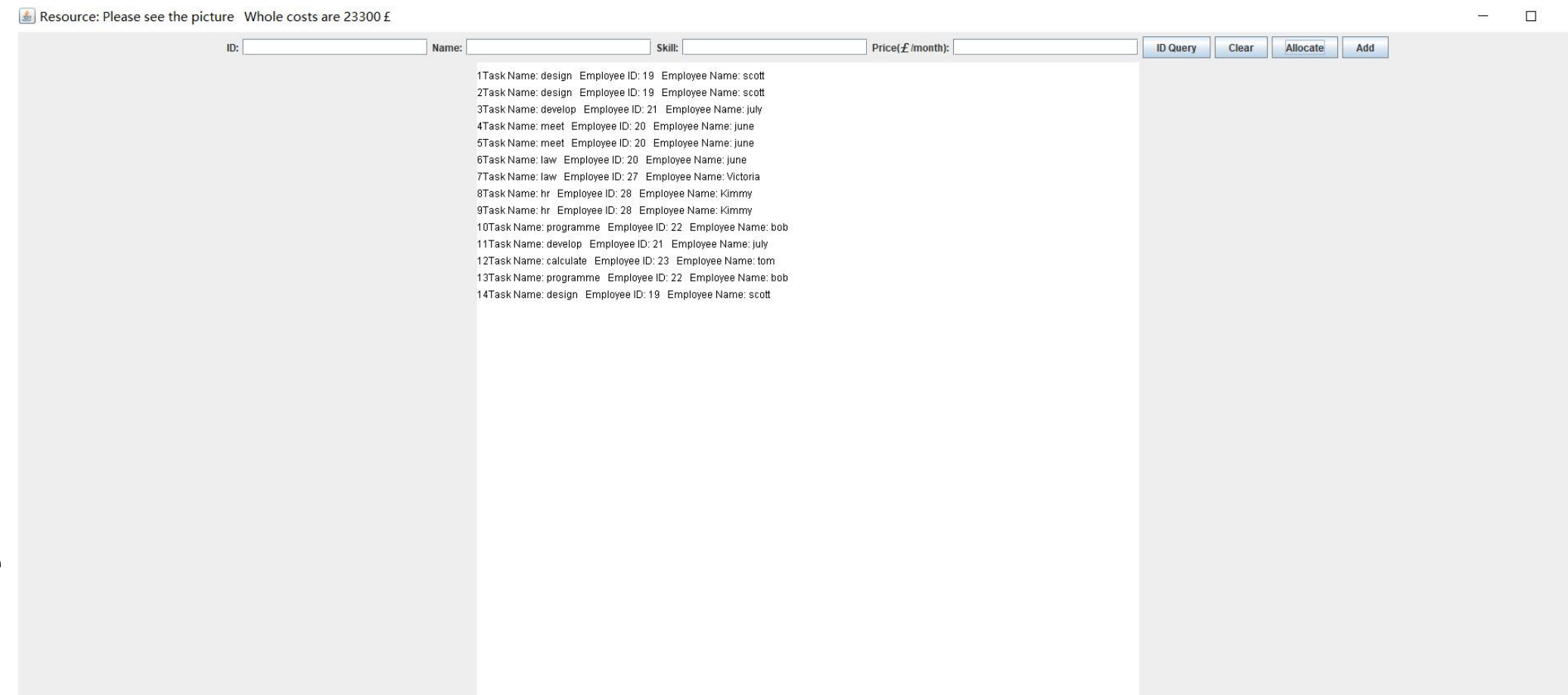
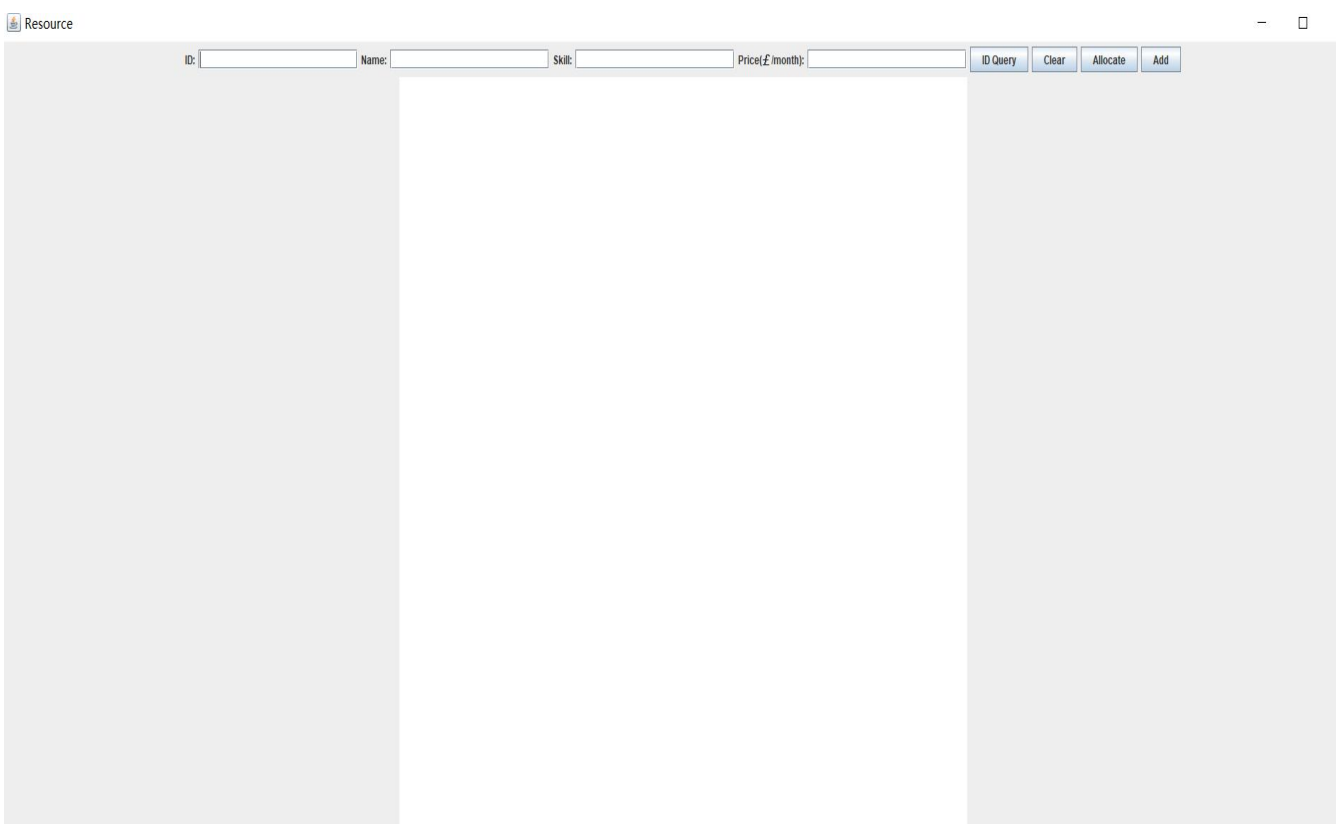
MSc in Computing for Business

Propose and UI

Project management is very important, but the thing which needs to be thought of is too much. So if a project manager can use some software to solve some problem like resource allocation.

This program is for adding employee information to an appointed database. It also can find the most suitable employee for a task and allocate the employee to the task.

The UI can be seen in the picture below. There are 4 text fields you can input, which are ID, name, skill, and price (£/month). There also have 4 buttons which are IDquery, clear, allocate, and add.



Software Description

The four text fields are for inputting information of employee and then stock in database. When you press IDquery button after input correct ID in ID text field, the software will find the matching employee information and show it to you. When you press clear button, it will clear all text fields. It's convenient for use other functions. When you press allocate button, the software will allocate the most suitable employee to each task. If all the employees in the database don't have suitable skills for some task, it will tell you which task can't allocate an employee. When you press add button after input the right format information of employee, this information will be stocked in database.

Technology and Logic

This software was made by JAVA and MySQL. Using JAVA to make an UI and implement some functions. Also, JAVA needs to be connected with database. Using MySQL to be a database so it can be a database to store and read data.

The main logic is to add and read data from the database by JAVA. For implementing the allocate function, it needs to use JAVA to write SQL sentences to find which employees have suitable skills for a task. Also, it must find the most cheap employee and allocate to the task. The add function is also using JAVA to write SQL sentences to add new data to the database. Finally, it must find the whole cost when you finish your allocation. It needs JAVA's loop and array data.