LAB211 Assignment

Type:	**Short Assignment**
Code:	**J1.S.P0056**
LOC:	**70**
Slot(s):	**1**

Title

Program to manage worker information.

Background

N/A

Program Specifications

Create a program to manage worker:

1. Add a Worker.
2. Increase salary for worker.
3. Decrease for worker.
4. Show adjusted salary worker information.

Function details:

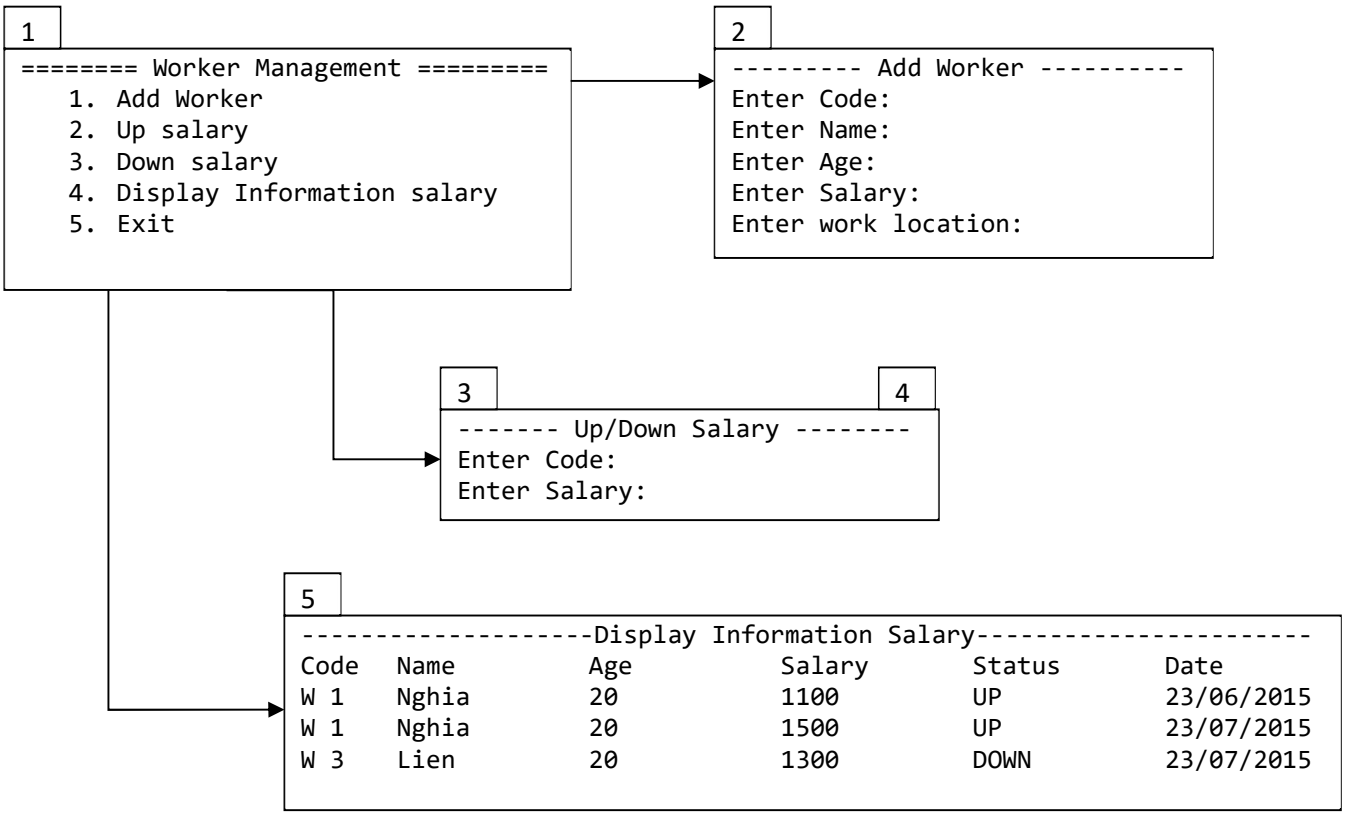
Function 1: Display a menu and ask users to select an option.

- Users run the program. The program prompts users to select an option.
- Users select an option, perform **Function 2**.

Function 2: Perform function based on the selected option.

- Option 1: Add an worker
  - Prompt user to input task information (id, name,age, salary, work location)
  - Check data input is valid with following information:
    - Code(id) cannot be null or duplicated with existed Code in DB.
    - Age must be in range 18 to 50
    - Salary must be greater than 0
  - Add Worker to DB.
  - Return to main screen.
- Option 2: Increase salary
  - Prompt user to input Code(id) and amount of money to raise
  - Data must be valid with following conditions
    - Code(id) must be existed in DB.
    - Amount of money must be > 0
  - Add salary to worker and save salary history
  - Return to main screen
- Option 3: Decrease salary
  - Prompt user to input Code(id) and amount of money to cut.
  - Data must be valid with following conditions
    - Code(id) must be existed in DB.
    - Amount of money must be > 0
  - Substract salary to worker and save salary history
  - Return to main screen
- Option 4: Show all worker have been adjusted salary by worker code.
- Option 5: Quit program.

Expectation of User interface:



Guidelines

Student must implement methods

- addWorker
- changeSalary
- getInfomationSalary

in startup code.

Example:

Class Management contains functions add, show, increase, decrease salary of workers.

Option 1: Add worker

- Named function: public boolean addWorker(Worker worker) throws Exception
  - Input:
    - worker: worker information.
  - Return values:
    - Worker added status.
    - Exceptions list.

Option 2 & Option 3: Adjust salary.

- Named function: public boolean changeSalary(SalaryStatus status, String code, double amount)
  - Input:
    - status: is increase or decrease.
    - code: code Worker

- amount: amount of money

- Return values:
  - Status of adjusted.
  - Exception list.

Option 4: Display the list of adjusted salary workers.

- Named functions: public List<SalaryHistory> getInfomationSalary()
  - Input:
  - Return value: List of worker sort by id.