SENG102

Lab Assignment 11

Question1

A LINKED LIST OF EMPLOYEES

In this lab, you are going to practice linked list concept. The file Employee.java represents a single employee object and the file EmployeeList.java contains definitions for a linked list of employees. The class contains an inner class EmployeeNode that holds information for a single node in the list (a node hasan employee object and a reference to the next node). You are <u>not</u> allowed to use java's Collections library. You are asked to do the following tasks:

Complete the EmployeeList.java for necessary methods as follows:

- public EmployeeList(): constructor; creates an empty list of employees
- public void addToEnd (Employee e): takes an employee and puts it on the end of the list
- public boolean search (String n) : takes a name, checks whether the employee with that name is present in linked list and returns true/false according to result
- public void print(): prints the elements in the list from first to last

Do not delete or lose the files in the first question!!

Question02:

A LINKED LIST OF EMPLOYEES

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Now complete the test program EmployeeListTest.java that contains a driver that allows you to experiment with your new methods. For each, add an option to the driver to test it. Compile and run EmployeeListTest, with your other .java files and play around with it to see how it works.

You can see an **example** output below:

Menu ====

- 0: Quit
- 1: Add an employee to the end of the list
- 2: Search for an employee due to name in the list3: Print the list

Enter your choice: 1

Enter name(string) of employee to add to endJohn

Menu

0: Quit

2: Search for an employee due to name in the list3: Print the

1: Add an employee to the end of the list

Enter your choice: 2 Enter name(string) of employee to searchKaren Yes, Employee Found! Menu ==== 0: Quit 1: Add an employee to the end of the list 2: Search for an employee due to name in the list3: Print the Enter your choice: 2 Enter name(string) of employee to searchMurat No, Employee Not Found! Menu ==== 0: Quit 1: Add an employee to the end of the list 2: Search for an employee due to name in the list3: Print the

Enter your choice: 0

Submission

You need to implement all the required tasks above and upload your Java source files (.java).