# name-sorter

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This project is generated as an employee skill assesment for PT. Kreatifitas Sinergisme Teknoindo.

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### 1. Introduction

The program [name-sorter] is a console application that will sort a list of names. User can submit a file path in text form, and [name-sorter] will extract the names listed on the file. Next, [name-sorter] sorts names based on surname, then by given name respectively. User can then view the result on screen and on an output file, called [sorted-names-list.txt] on the same directory as the input file.

There are two main points discussed in this document; installation manual and technical design manual. Installation manual elaborates on how to install [name-sorter] on PC / laptop (running on Windows for now), technical design manual describes more on [name-sorter] design that acts as technical design guidance and reference for future development.

#### 2. Installation Manual

The generated [.exe] file should be available before starting the [name-sorter] installation. Besides, there is a folder named [name-sorter.installer] along with this document for this [name-sorter] installation purposes.

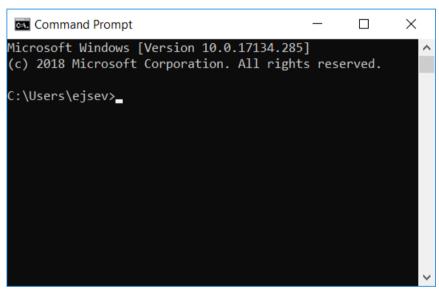
Installing [name-sorter] requires a user to simply copy and paste the entire files under [name-sorter.installer] directory. The same method also applies when installation files exist in a different folder. In the case when the installation files exist in a compressed form (or zipped form), then user may extract the installer to a desired location.

To check if the installation went properly, simply run [name-sorter] by following three steps below:

Open command prompt
[Windows key + r] ➤ [Type: cmd]

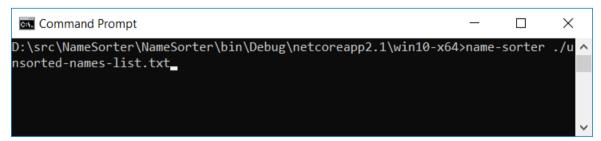
or

[Go to Start menu] ➤ [Windows System] ➤ [Command Prompt]



Drawing 1: Command Prompt Window

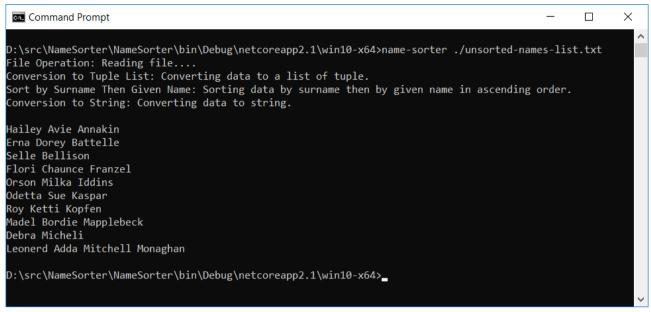
Run [name-sorter]
On command prompt, navigate to [name-sorter] folder ➤ [Type: name-sorter ./unsorted-names-list.txt]



Drawing 2: Navigate to [name-sorter] Installation Location

#### 3. View result

There should be names listed in orderly manner printed on screen. For certainty, there should also be a file called [sorted-names-list.txt] under the same folder as [unsorted-names-list.txt] file.



Drawing 3: Running [name-sorter]

### 3. Technical Design Manual

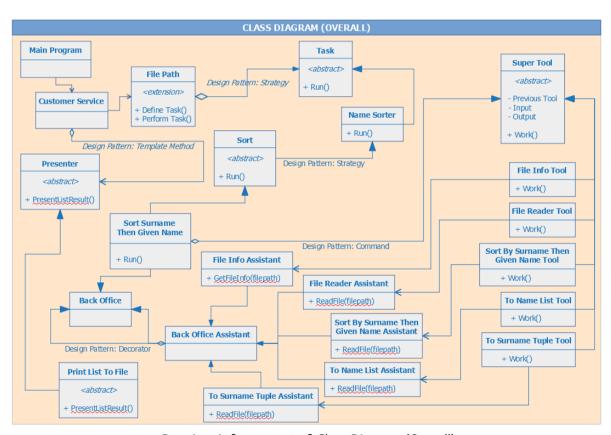
Program [name-sorter] follows design pattern concept. Following OOP concept, [name-sorter] follows an analogy where a regular customer goes to a bank to open a new account. The customer enters the bank, and meets the [Customer Service] officer that tackles all client requests. Knowing the type of request, [Customer Service] officer will give the appropriate form. The customer fills out the form and submits it to [Customer Service] officer for further processing.

There should be a smart person in the background that assists [Customer Service] officer that handles requests, including but not limited to approving or rejecting the process of generating an account for the customer. When a bank account number is created, bank should prepare a record book that customer can keep to track his banking transaction. Depending on whether or not the customer requires an ATM card, the [Customer Service] should ask the appropriate [Back Office] to generate an ATM card for the customer.

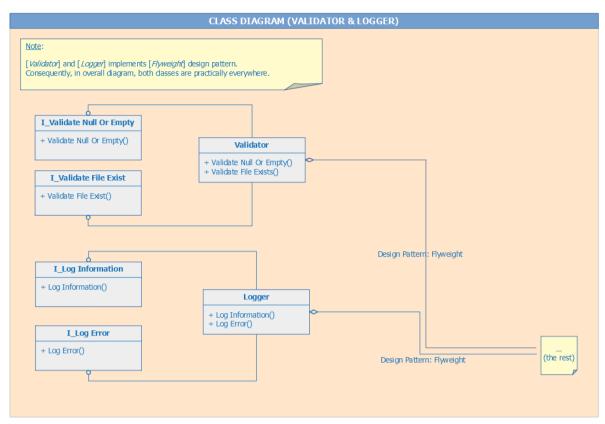
The same story applies for [name-sorter]. As soon as the [Main Program] receives a request to sort names on a certain file, it will call for the [Customer Service] officer to tackle the request. [Customer Service] officer shall choose among all available services, which one is the suitable service for this particular sort request.

Then, sort request goes to the [Back Office] that sorts data technically, and return the result back to the [Customer Service] officer. [Customer Service] will go to the writer staff, to prepare a notification letter for the customer. The letter contains the result of the sort process.

Roughly, the class diagram of [name-sorter] is as follows:

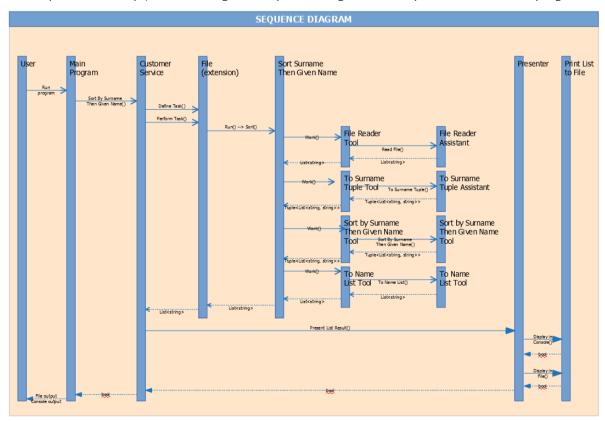


Drawing 4: [name-sorter] Class Diagram (Overall)



Drawing 5: [name-sorter] Class Diagram (Validator & Logger)

As proof of concept, the following is a Sequence Diagram that depicts the flow of the program:



Drawing 6: [name-sorter] Sequence Diagram