This document briefly describes the public classes and methods in name-sorter application.

1. **Class**
   1. **public class NameInfo**

This class is the human name structure defition.

* 1. **public class SortNames**

This class contains methods to sort a list of names according to the last name and given name.

* 1. **public class ValidityCheck**

This class containing methods to check the validity of command line arguments.

* 1. **class NameSorter**

This application internal class contains name-sorter entry point.

1. **Methods**
   1. **SortNames. GetNameListFromFile**

Summary: read names from file and put names into the given list

Parameter: Path - input file path

OutputNameList - unsorted name list

Returns: INVALID\_PARAM, NO\_VALID\_DATA, SUCCESS

* 1. **SortNames. SortNameList**

Summary: sort the name list, and save the sorted results in the same list

Parameter: NameList - input unsorted list and output sorted list

Returns: INVALID\_PARAM, SUCCESS

* 1. **SortNames. DispalyAndWrite**

Summary: display sorted names and write them to a file in current work directory

Parameter: InputNameList - sorted name list

Returns: INVALID\_PARAM, SUCCESS

* 1. **ValidityCheck. ParameterCheck**

Summary: parameters validity check

Parameter: args - command line arguements needed to check

Returns: INVALID\_PARAM, INPUT\_FILE\_NAME\_EMPTY, INPUT\_FILE\_INEXISTING, SUCCESS