**NameSorter Application Documentation**

**Overview**

The NameSorter application is designed to sort a list of names based on last names and given names. It reads names from a text file, sorts them, displays the sorted names on the screen, and saves them to a new file. The application is intended for use in environments where name sorting is required for further processing or organization.

**System Requirements**

.NET Core 6.0 SDK

Compatible with Windows, Linux, and macOS environments

**Installation**

1. Clone the repository: Obtain the source code by cloning the repository from GitHub.

**git clone https://github.com/JoelKap/NameSorter.git**

2. Build the project: Navigate to the project directory and build the project using the .NET CLI.

**cd NameSorter**

**dotnet build**

**Usage**

To use the NameSorter application, follow these steps:

1. **Prepare the input file**: Ensure you have a text file containing names formatted as **GivenNames LastName**. Each name should be on a new line. For example:

*Janet Parsons*

*Vaughn Lewis*

*Adonis Julius Archer*

The application comes with a sample file **2000\_names\_list.txt** for testing, which contains 2,000 generated names.

1. **Run the application**: Use the following command to run the application. Replace **<path-to-file>** with the path to your input text file.
2. **Navigate to the build output directory**:

*cd bin/Debug/net6.0*

1. **Execute the application using**:

*dotnet run --project NameSorter ./unsorted-names-list.txt*

1. **Alternatively, to use the sample test file:**

*dotnet run --project NameSorter ../../2000\_names\_list.txt*

1. **View results**: The application will display the sorted names in the console and save them to a file named sorted-names-list.txt in the same directory as the input file.

**Example Files**

**Input file:** unsorted-names-list.txt or 2000\_names\_list.txt (for testing)

**Output file:** sorted-names-list.txt

**Testing**

Run unit tests to ensure the functionality is working as expected:

**dotnet test**