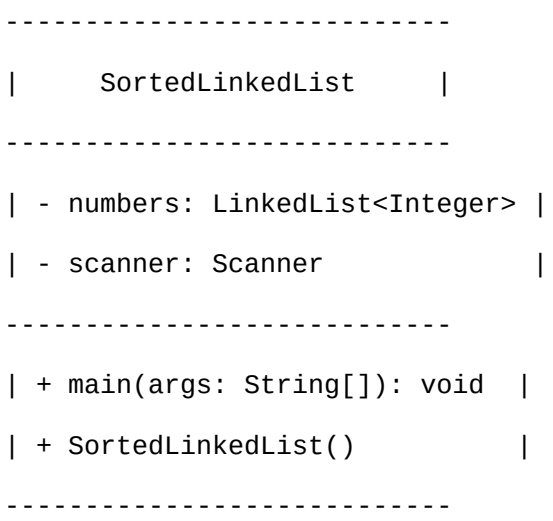
UML Diagram - SortedLinkedList Program



Relationships:

- Uses java.util.LinkedList to store user input
- Uses java.util.Scanner for input reading
- Uses java.util.Collections.sort() for sorting

This design is modular and reusable. The main method encapsulates all runtime logic.

README - SortedLinkedList Java Program

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1. How to Compile:

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javac SortedLinkedList.java

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2. How to Run:

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java SortedLinkedList

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3. How to Use:

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Enter one integer at a time. Type 'done' to finish.

The program will sort and display the list in ascending order.

Example:

5

12

3

done

Output:

Sorted List:

3 5 12

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4. How to Generate Javadoc:

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javadoc SortedLinkedList.java

This will create HTML documentation files including index.html.

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5. Code Reuse:

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This program demonstrates Java code reuse by:

- Using LinkedList<Integer> for dynamic list operations.

- Using Scanner to read standard input.

- Using Collections.sort() to sort data.

These components are all part of the java.util package.

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6. Notes:

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This structure is reusable for future assignments and provides clear logic and extensibility.