

Auto-Completion Trie (ACT)

The Auto-Completion Trie (ACT) is a Java program that implements an auto-completion feature using a trie data structure. It allows users to efficiently search for words based on a given prefix.

Features

- Depth First Search: Insertion of words into the trie data structure & auto-completion of words based on a given prefix.
- File I/O: Loading words from a dictionary file to build the trie.

Usage

- 1) Building the program: Compile the Java source code to generate the executable class files.
- 2) Running the program: *Execute the compiled program using the Java Virtual Machine (JVM).*
- 3) Searching for Words: *Enter search queries at the command-line prompt to find auto-completion suggestions. Type "exit" to quit the program.*

Application Structure

- ACT.java ⇒ *Main Java source code file containing the implementation of the ACT program.*
- Dictionary2.txt ⇒ *Sample dictionary file containing a list of words for testing the program.*

Screenshots

```
$> Please type search queries:
$> test
$> Your options are:
$> test
$> testament
$> testaverde
$> testaverdes
$> tested
$> tester
$> testeverde
$> testified
$> testifies
$> testify
$> testifying
$> testimony
$> testing
$> Please type search queries:
$> exit
Thanks for using ;)
```