Digital Dictionary

C++ program enabling users to create their own dictionaries by adding and updating their own entries.

Github: https://github.com/PriyamGupta-1999/Digital\_Dictionary.git

# Objective and Scope:

Dictionary in the mentioned project will enable users to search the meaning of the word from the source file and also be able to update the meaning of the word. Use of strings to find the meaning in the dictionary to access a single byte character and then apply insertion, search and update.

# Methodology:

STL and data structures, most significantly, a trie, of C++ Programming language are used for searching the meaning of a given string and also updating the meaning. Various operations of Tries have been used like insertion, search and updation of word.

Dynamic Memory Allocation of the C++ class array is done to store the children array in the trie node. Recursive algorithms leverage the functioning of insert, search and update functions of class trie. String datatype is used with its STL commands to do various operations on strings.

File System Operations is used to store the word and meaning of word in the text file. Read and write operations are performed on text file.

# Learning and outcomes:

successfully applied Trie data structure and performed insertion updation and search in tries. With the help of Trie data structure, Program is able to achieve that the meaning of the word could be found in O(n) Time complexity where n is the size of the given string.

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