

DICTIONARY MANAGEMENT SYSTEM

DATA STRUCTURES

INTRODUCTION

A dictionary management system is a program that allows users to enter words and their meanings and then search for words to get their meanings. In this implementation, we have used a binary search tree with BFS (Breadth-First Search) traversal to manage the dictionary.

FEATURES

1. Add word: The user can enter a new word and its meaning to add to the dictionary. The program will insert the word into the binary search tree in the correct order using BFS traversal.
2. Search word: The user can search for a word to get its meaning. The program will search the binary search tree for the word using BFS traversal and display its meaning if found.
3. Exit: The user can exit the program

IMPLEMENTATION

I have implemented the dictionary management system using a binary search tree with BFS traversal. The binary search tree is built dynamically as new words are added to the dictionary. Each node in the tree contains a word and its meaning. When a new word is added, the program uses BFS traversal to find the correct position in the tree and inserts the new node.

When a user searches for a word, the program uses BFS traversal to search the binary search tree for the word. If the word is found, the program displays its meaning. If the word is not found, the program displays a message saying that the word is not in the dictionary.

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Menu:
1. Add word
2. Search word
3. Exit
Enter choice: 1
Enter word: goal
Enter meaning: An objective or target that someone is trying to reach or achieve.
Word added successfully!
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Menu:
1. Add word
2. Search word
3. Exit
Enter choice: passion
Enter word: Enter meaning: strong and barely controllable emotion.
Word added successfully!
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Menu:
1. Add word
2. Search word
3. Exit
Enter choice: 2
Enter word to find meaning: goal
An objective or target that someone is trying to reach or achieve.
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