DICTIONARY

PROJECT REPORT

21CSC201J – Data Structures and Algorithms

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BONAFIDE

This is to certify that the project report titled "DICTIONARY" is the bonafide work Of **S SRIWANTH (RA2112703010022) and BATHINA HARSHA VARDHAN (RA2112703010001)** who undertook the task of completing the project within the allotted time.

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ABSTRACT

Dictionary is one of the important media in learning English. Along with the rapid development of technology at this time, the various applications are widely developed as a medium of learning, one of them is the application of dictionary. Dictionaries are more practical than conventional dictionaries, as users can receive information quickly anywhere without space and time constraints.

This application is built to help and meet the needs of students majoring in searching for meaning and understand various English words. The programming languages used in making this language dictionary application is “C”.

Table of Contents

Introduction:

- The Project “Dictionary” is a console application developed using C programming language.

- There are different types of dictionaries available in the market, and this number is increasing day by day. It shows growing need of dictionaries.

- To make one complete dictionary get printed cost very large money. So, to find the solution to this problem we are developing a “Dictionary” which serves the purpose.

Purpose:

- It provides “better and efficient” service to the users.

- Reduce the workload of the publisher.

- Faster retrieval of the meaning for a particular word.

- Reduce cost and time.

- Reduce paperwork.

Requirements:

- Keyboard
- Mouse
- Operating System of Windows 7(minimum)
- Developing tool

Functional Specifications:

The Project entitled “Dictionary” is provided with the following functions

- Add Words
- Edit Words
- Delete Words
- Search Words
- Get Meanings

Objectives:

The “Dictionary” software is developed to solve user’s vocabulary confusion or problem. Just few clicks and the meaning are known.

- The main objective of this project is to implement a Dictionary to find the meaning of words.
- The Dictionary will be user friendly so that any person with a basic knowledge can access it.
- It will solve the problems faced by the language learners.

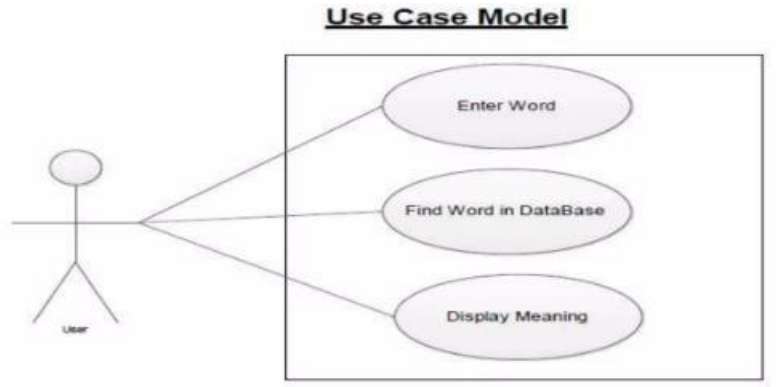
Benefits:

- Easy to find out the meaning of a word.
- To make the program flexible, there are options to add new words, modify words and their meanings.
- Very simple and easy to handle for the user.
- To introduce a well based interface.

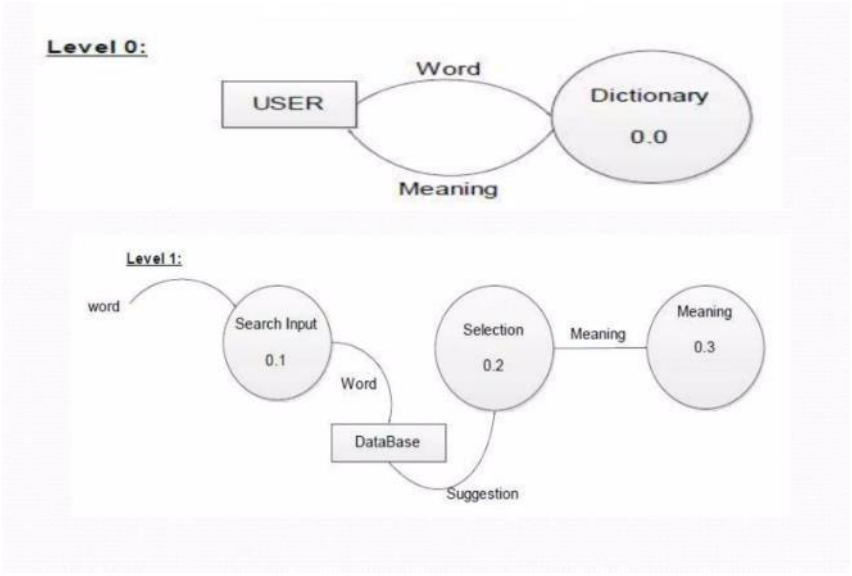
Use Case Model:

There are three basic elements that make up a use case.

- Actors
- System
- Goals



Data Flow Diagram:



Future Enhancements:

- Image input
- Language extensibility
- Parts of speech recognition
- Sentence translation

Limitations:

- This application is based on ‘C’ language
- Currently this application cannot display the parts of speech of the words you are searching
- This application can currently show only the English meaning of the words you entered

Code Implementation:

```
#include <stdio.h>
char word[1000][30];
char word_meaning[1000][30];
int count_index = -1;
void show_dictionary()
{
   if (count_index == -1)
   {
      printf("\nSorry! dictionary is empty Please add word first\n");
      goto there;
   }
   printf("-----------------------------------------\n");
   printf("|   Word   |       Meaning       |\n");
   printf("-----------------------------------------\n");
   for (int i = 0; i <= count_index; i++)
   {
      printf("|    %s            %s\n", word[i], word_meaning[i]);
      printf("-----------------------------------------\n");
   }
there:
   printf("\n");
}
void add_word()
{
   char word1[30], word_meaning1[30];
   printf("Enter word to add in dictionary: ");
   fflush(stdin);
   gets(word1);
```

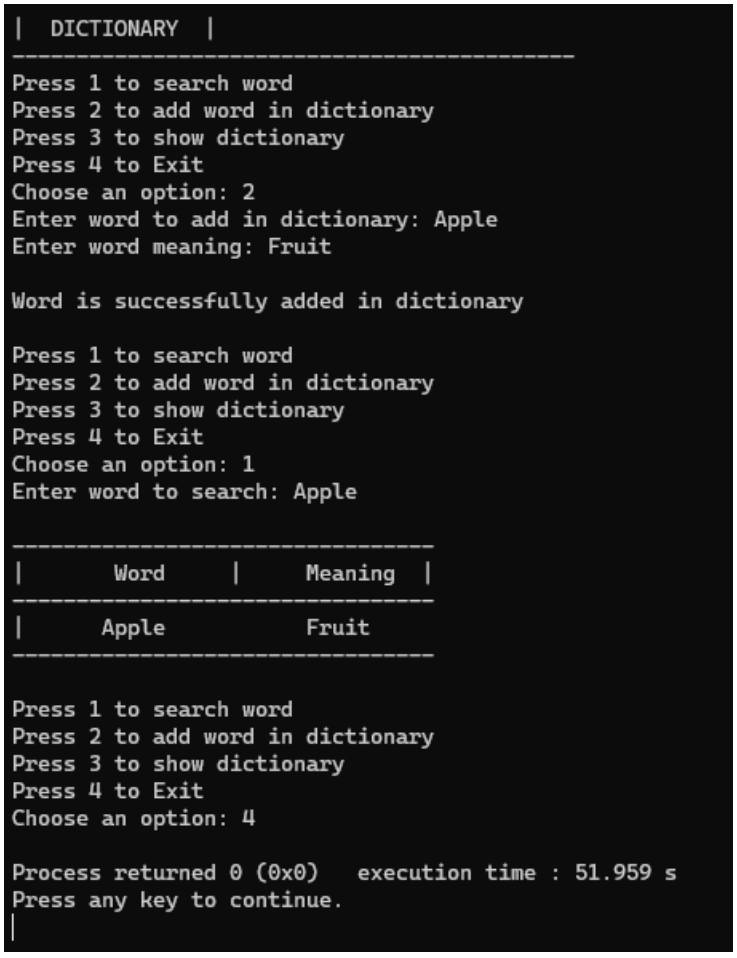
```
    for (int i = 0; i <= count_index; i++)
    {
        if (!strcmp(word1, word[i]))
        {
            printf("\nThis word is already exit\n");
            goto there;
        }
    }
    printf("Enter word meaning: ");
    fflush(stdin);
    gets(word_meaning1);

    count_index++;
    strcpy(word[count_index], word1);
    strcpy(word_meaning[count_index], word_meaning1);
    printf("\nWord is successfully added in dictionary\n");
there:
    printf("\n");
}
void search_word()
{
    char word1[30];
    int check;
    if (count_index == -1)
    {
        printf("\nSorry! dictionary is empty Please add word first\n");
        goto there;
    }
    printf("Enter word to search: ");
```

```
    fflush(stdin);
    gets(word1);
    for (int i = 0; i <= count_index; i++)
    {
        if (!strcmp(word1, word[i]))
        {
            printf("\n.....\n");
            printf("|      Word     |     Meaning |\n");
            printf("".....\n");
            printf("|      %s          %s\n", word1, word_meaning[i]);
            printf("".....\n");
        }
        else
        {
            if (i == count_index)
            {
                printf("\nSorry! word is not found\n");
            }
        }
    }
there:
    printf("\n");
}
void main()
{
    int choose;
    printf("\n.....\n");
    printf("|  DICTIONARY  |\n");
    printf(".....\n");
```

```
    do
    {
        printf("Press 1 to search word\n");
        printf("Press 2 to add word in dictionary\n");
        printf("Press 3 to show dictionary\n");
        printf("Press 4 to Exit\n");
    again:
        printf("Choose an option: ");
        scanf("%d", &choose);
        switch (choose)
        {
        case 1:
            search_word();
            break;
        case 2:
            add_word();
            break;
        case 3:
            show_dictionary();
            break;
        case 4:
            exit(0);
            break;
        default:
            printf("Invalid option try again\n");
            goto again;
        }
    } while (choose != 4);
}
```

Output:



Result:

Successfully implemented our mini project entitled “Dictionary” using “C” programming language.

Conclusion:

The aim of this project is to develop for the user who wants to know meaning of English words on user's device. Dictionary propose a new idea for better experience. The easy under stability and usability of the application makes it better. As the processing speed is very fast it is ahead of all other dictionary applications with its additional features. This project gives a new experience where the word is easily detected and gives the output very fast.