

# POWERVOCAB

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## PROBLEM DEFINITION

Build your vocabulary with the **POWERVOCAB**. Find the meaning for any word in the **WORD FINDER** category. Quiz yourself every day to learn new words on the **WORD GAME**. Daily **WORD OF THE DAY** to master your vocabulary. Now you can practice and improve your vocabulary anywhere, any time!

# MODULE IDENTIFICATION

Several modules that we have used in the project are:

**1. void wotd()**

This module is used to display the “WORD OF THE DAY”. Randomly, any word is chosen from the words file and corresponding to that it’s meaning is displayed.

**2. void search()**

This module is used to search the meaning for the word entered by the user. If the word is present, it’s meaning is displayed otherwise that word is added to a new file displaying the message “WORD NOT FOUND. WE’LL ADD THIS WORD IN THE UPCOMING VERSION”.

**3. void game()**

This module is used to play the “WORD GAME”. Randomly, a word is displayed, you have to select a meaning of the given word out of the four options provided. Also, your score is calculated that is +1 for every correct answer.

**4. int checkAns(int, int, int, int)**

This module takes input as integers (meaning of the word) and saves them in a sorted array. It is used to calculate the position of the correct answer in the array and return it back.

**5. void menu()**

This module is used to display the landing page and the menu of the app.

**6. void intro()**

This module is used to display the name of the app, on every page.

**7. char back()**

This module is used as a back button. It returns a character value, and corresponding to that instruction is executed.

**8. void delay()**

This module is used to delay some output.

## CODE

```
#include<stdio.h>
#include<stdlib.h>
#include<time.h>
#include<conio.h>
#include<string.h>

#define LOWER 1
#define UPPER 50
#define DELAY 20000

void delay();
char back();
void intro();
void menu();
int checkAns(int, int, int, int);
void wotd();
void search();
void game();

void delay()
{   int i,j;
    for(i=0;i<DELAY;i++)
        for(j=0;j<DELAY;j++);
}
```





```

int checkAns(random, num1, num2, num3)           //sort array in asc order
{
    int a,b,n,temp;
    int arr[4] = {random, num1, num2, num3};
    for(a=0;a<4;a++)
    {
        for(b=a+1;b<4;b++)
        {
            if(arr[a] > arr[b])
            {
                temp = arr[a];
                arr[a] = arr[b];
                arr[b] = temp;
            }
        }
    }
    for(a=0;a<4;a++)
    {
        if(arr[a]==random)
            break;
    }
    a++;
    n=a;
    return n;
}

```

```

void wotd()
{
    FILE *f,*x;
    int random;
    char c[80],c1[10],c2[80];
}

```



```

system("cls");

intro();

printf("\n\n\n\t\t WORD OF THE DAY");


f=fopen("words.txt","r");
x=fopen("meaning.txt","r");


if(f==NULL || x==NULL)
    printf("\n\t\t WORD/MEANING FILE NOT FOUND");
else
{
    int i=0;

    srand(time(NULL));

    random = (rand() % (UPPER - LOWER + 1)) + LOWER;

    while(i!=random)
    {
        fscanf(f,"%[^\\n]",c);

        fscanf(x,"%[^\\n]",c2);

        i++;

        if(i==random)

            printf("\n\n\t\t %s -> %s ",c,c2);

        fgetc(c,strlen(c),f);

        fgetc(c2,strlen(c2),x);

    }

}

fclose(f);

fclose(x);

delay();

}

```

```

void search()
{
    int check=0;

    FILE *f,*x,*y;

    char c[80],c1[10],c2[80],ch;


    do

    {
        system("cls");

        intro();

        printf("\n\n");

        check=0;


        printf("\n\t\t\t\t\t ENTER ANY WORD TO SEARCH FOR IT'S MEANING \n\n");


        printf("\n\t\t\t\t\t ENTER WORD: ");

        scanf("%s", c1);


        f=fopen("words.txt","r");

        x=fopen("meaning.txt","r");


        if(f==NULL || x==NULL)

            printf("\n\t\t\t\t\t WORD/MEANING FILE NOT FOUND");

        else

        {
            int i=0;

            while(!feof(f))

            {
                fscanf(f,"%[^\\n]",c);

                fscanf(x,"%[^\\n]",c2);
            }
        }
    }
}

```

```

        i++;
        if(!strcmp(c,c1))
        {   printf("\n\n\t\t\t !!! WORD FOUND !!! \n\n");
            check=1;
            printf("\t\t\t %s -> %s \n",c,c2);
        }
        fgets(c,strlen(c),f);
        fgets(c2,strlen(c2),x);
    }
}

if(check==0)
{   printf("\n\n\t\t\t WORD NOT FOUND \n");
    printf("\n\t\t\t WE'LL ADD THIS WORD IN THE UPCOMING VERSION \n");
    y = fopen("new_words.txt", "a+");
    fputs(c1, y);
    fputs("\n", y);
}

printf("\n\n\n\t\t\t WANT TO SEARCH SOME OTHER WORD(Y/N)? : ");
scanf(" %c",&ch);

fclose(f);
fclose(x);
fclose(y);
delay();
}while(ch=='y' || ch=='Y');

```

```
void game()
{   FILE *f,*x;

    int num1,num2,num3,random,index,score=0,check=0,ans,no=1;

    char c[80],c1[10],c2[80];


    do

    {   system("cls");

        intro();

        printf("\n\n");


        printf("\n\t\t\t SELECT MEANING OF THE GIVEN WORD OUT OF THE FOUR OPTIONS PROVIDED \n\n");


        srand(time(NULL));


        random = (rand() % (UPPER - LOWER + 1)) + LOWER;           //to create 4 random nos

        do

        {   num1 = (rand() % (UPPER - LOWER + 1)) + LOWER;

            }while(num1==random);

        do

        {   num2 = (rand() % (UPPER - LOWER + 1)) + LOWER;

            }while(num1==num2 || num2==random);

        do

        {   num3 = (rand() % (UPPER - LOWER + 1)) + LOWER;

            }while(num1==num2 || num1==num3 || num2==num3 || num3==random);
```

```
index = checkAns(random, num1, num2, num3);           //to find the correct
answer(array subscript) in the sorted array
```

```
f=fopen("words.txt","r");
```

```
x=fopen("meaning.txt","r");
```

```
if(f==NULL || x==NULL)
```

```
    printf("\n\t\t\t WORD/MEANING FILE NOT FOUND");
```

```
else
```

```
{ int i=0;
```

```
    while(i!=random)           //to print the random word from the file
```

```
    { fscanf(f,"%[^\\n]",c);
```

```
        i++;
```

```
    if(i==random)
```

```
        printf("\n\t\t\t WORD: %s ",c);
```

```
        fgetc(c,strlen(c),f);
```

```
    }
```

```
    printf("\t\t\t\t\t SCORE: %d \n", score);
```

```
    printf("\n");
```

```
    i=0;
```

```
    no=1;
```

```
    while(!feof(x))           //to print any 4 meanings (asc order)
```

```
    { fscanf(x,"%[^\\n]",c2);
```

```
        i++;
```

```
    if(i==random)
```

```
    { printf("\n\t\t\t %d) %s \n", no, c2);
```

```

        no++;
    }
    if(i==num1)
    {   printf("\n\t\t\t %d) %s \n", no, c2);
        no++;
    }
    if(i==num2)
    {   printf("\n\t\t\t %d) %s \n", no, c2);
        no++;
    }
    if(i==num3)
    {   printf("\n\t\t\t %d) %s \n", no, c2);
        no++;
    }
    fgetc(c2,strlen(c2),x);
}
fclose(f);
fclose(x);

f=fopen("words.txt","r");           //to check answer again opening both files
x=fopen("meaning.txt","r");

if(f==NULL || x==NULL)
    printf("\n\t\t\t WORD/MEANING FILE NOT FOUND");
else
{   printf("\n\n\t\t\t ENTER YOUR CHOICE: ");
    scanf("%d", &ans);

```

```

    if(index==ans)
    {   printf("\n\t\t\t CONGRATULATIONS!! ");
        printf(" CORRECT ANSWER ");
        score++;
    }
    else
    {   printf("\n\t\t\t BETTER LUCK NEXT TIME");
        printf("\n\t\t\t THE CORRECT ANSWER IS: ");
        i=0;
        check=1;
        while(i!=random)
        {   fscanf(x,"%[^\\n]",c2);
            i++;
            if(i==random)
                printf("%s ", c2);
            fgetc(c2,strlen(c2),x);
        }
    }
}

delay();
}while(check==0);

printf("\n\n\t\t\t TOTAL SCORE: %d ", score);

fclose(f);
fclose(x);

```

```
    delay();  
}
```

```
int main()  
{ menu();  
  return 0;  
}
```



# TESTING SCREENSHOTS



Fig. 1



Fig. 2

```
C:\Users\Lenovo\Desktop\C Project\C_project.exe

*****
POWER-VOCAB
*****

ENTER ANY WORD TO SEARCH FOR IT'S MEANING

ENTER WORD: taradiddle

!!! WORD FOUND !!!

taradiddle -> a petty lie

WANT TO SEARCH SOME OTHER WORD(Y/N)?: y
```

Fig. 3

```
C:\Users\Lenovo\Desktop\C Project\C_project.exe

*****
POWER-VOCAB
*****

ENTER ANY WORD TO SEARCH FOR IT'S MEANING

ENTER WORD: glorious

WORD NOT FOUND

WE'LL ADD THIS WORD IN THE UPCOMING VERSION

WANT TO SEARCH SOME OTHER WORD(Y/N)?: n

PRESS ANY KEY TO GO BACK          PRESS 1 TO EXIT
```

Fig. 4

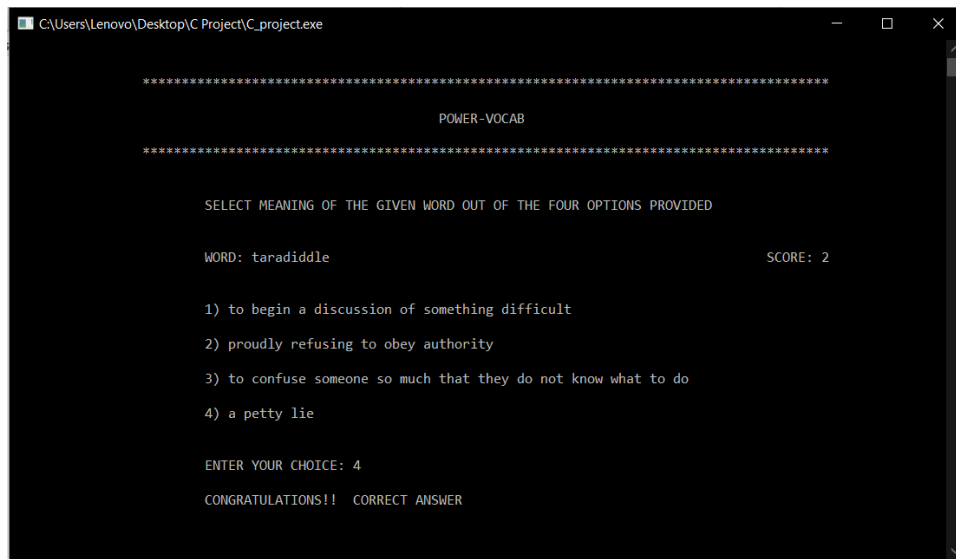


Fig. 5

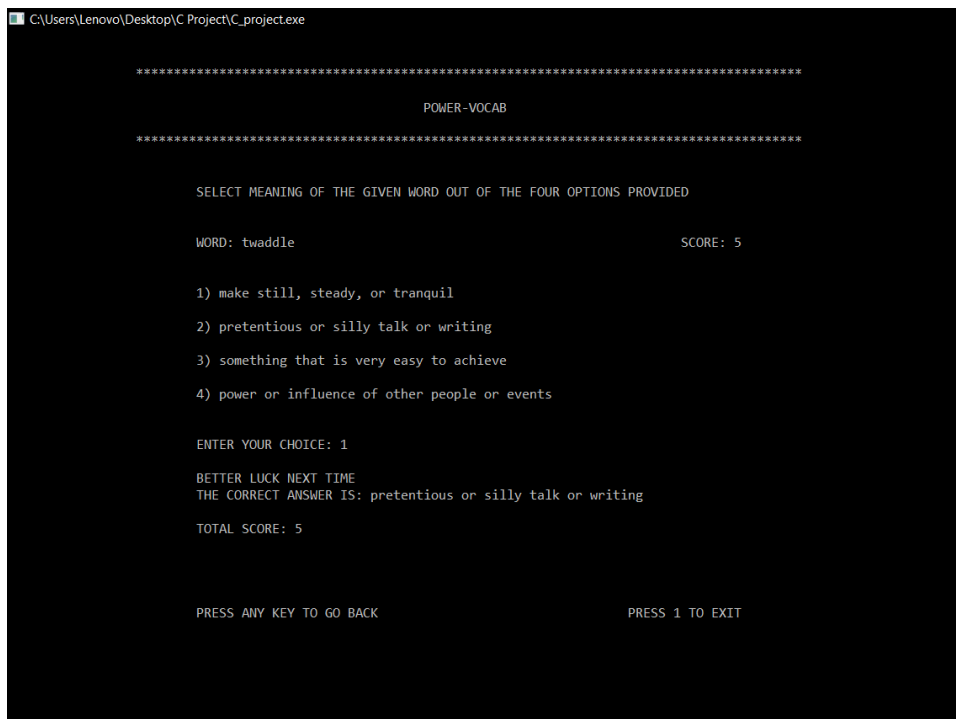


Fig. 6

```
C:\Users\Lenovo\Desktop\C Project\C_project.exe

*****
POWER-VOCAB
*****

BUILD YOUR VOCABULARY WITH "POWER-VOCAB"
FIND MEANING FOR ANY WORD IN THE WORD FINDER!
QUIZ YOURSELF EVERY DAY TO LEARN NEW WORDS ON THE WORD GAME!
NOW YOU CAN PRACTICE AND IMPROVE YOUR VOCABULARY ANYWHERE, ANY TIME!

1. WORD OF THE DAY
2. WORD FINDER
3. WORD GAME
4. EXIT

ENTER YOUR CHOICE: e8

INCORRECT INPUT
PLEASE ENTER CORRECT INPUT
```

Fig. 7

```
C:\Users\Lenovo\Desktop\C Project\C_project.exe

*****
POWER-VOCAB
*****

BUILD YOUR VOCABULARY WITH "POWER-VOCAB"
FIND MEANING FOR ANY WORD IN THE WORD FINDER!
QUIZ YOURSELF EVERY DAY TO LEARN NEW WORDS ON THE WORD GAME!
NOW YOU CAN PRACTICE AND IMPROVE YOUR VOCABULARY ANYWHERE, ANY TIME!

1. WORD OF THE DAY
2. WORD FINDER
3. WORD GAME
4. EXIT

ENTER YOUR CHOICE: 4

EXITING...
```

Fig. 8

## **FUTURE SCOPE**

- The future scope of the project is that we are going to add new words to it.
- New quizzes and gaming levels to make learning more fun.
- Add a signup, login tab and user profile to check your progress and work upon your language according to that.
- We are going to add basic English learning lessons and mock tests.

## REFERENCES

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- [www.geeksforgeeks.org](http://www.geeksforgeeks.org)
- [www.tutorialspoint.com](http://www.tutorialspoint.com)
- [www.w3schools.com](http://www.w3schools.com)