

```

main(int argc, char *argv[])
{
    int i = 0;

    /*if (argc != 5)
    {
        printf("Usage Instructions: dialog config_file learn_file\n");
        printf("**** Exiting, goodbye.\n");
        exit(1);
    }*/
    if (argc != 2)
    {
        printf("Usage Instructions: d <ini-file>\n");
        printf("**** Exiting, goodbye.\n");
        exit(1);
    }
    readini(argv[1]);
    formfile = fdock;
    loadStopWords(sdock);
    numPF = loadFormsList(xdock);
    numForms = loadForms(fdock);
    loadData(cfg, lcfg);
    Interactive(lcfg);
}

/*****
loaddata : This function will read the configuration files and load the
            information into the relevant global arrays.
*****/
loadData(char *filem, char *file2)
{
    char buf[256], word[20];
    int i, j, k, l;
    int numext;
    FILE *fp, *f2;

    /***** open configuration file *****/
    fp = fopen(filem, "r");

    /***** open learn(extended thesaurus) file *****/
    f2 = fopen(file2, "r");

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prompts = columnTerms = rowTerms = NULL;
scoring = thesaurus = indexList = menuList = NULL;

/* read data in the arrays */
numMenu = loadMenuTree(fp, "[MENUTREE]");
numIndex = readArray(fp, "[PROMPTS]", &prompts, 1, NULL, 0, 0);
numColumn = readArray(fp, "[INDEX]", &columnTerms, 1, &indexList, numIndex, 0);
numOrgRow = readArray(fp, "[THESAURUS]", &rowTerms, 1, &thesaurus, numColumn, 0);
numRow = readArray(f2, "[EXT-THESAURUS]", &rowTerms, 1, &thesaurus, numColumn,
numOrgRow);
numScore = readArray(f2, "[SCORING]", NULL, 0, &scoring, numColumn + 1, 0);

fclose(fp);
fclose(f2);
}

/*****
readArray : Reads the file and fills the rows and columns of the given arrays
*****/
int readArray(FILE *fp, char *head, char ***ch_array, int ccount, int ***int_array, int icount, int
sp)
{
char buf[256];
int i, j, start = 0, wc = 0;
int k, c;
char **tmparray; /*To store the pointers to the words/numbers from the string*/
c = sp;

if (icount != 0)
    tmparray = (char **)malloc((icount + 1) * sizeof(char *));

fseek(fp, 0, 0); /* Go to Top */

while (fgets(buf, 255, fp) != NULL) /* read lines till end of file */
{
    allTrim(buf);
    j = strlen(buf);
    if (buf[j - 1] == '\n') buf[j - 1] = 0;
    if (start)
    {
        if (strlen(buf) == 0) /* if blank line, stop reading */
            break;
        if (icount == 0) /* i.e. no integer array */

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        addWord(ch_array, buf, ++c);
    else /* read first word string */
    { /* rest are columns of int array */
        wc = readValues(buf, tmparray);
        c++;
        (*int_array) = (int **)realloc(*int_array, c * sizeof(int *));
        (*int_array)[c - 1] = (int *)malloc(icount * sizeof(int));
        if (ccount != 0)
            addWord(ch_array, tmparray[0], c);
        else
            (*int_array)[c - 1][0] = atoi(tmparray[0]);
        for (k = 1; k < icount; k++)
            if (k < wc)
                (*int_array)[c - 1][k - ccount] = atoi(tmparray[k]);
            else
                (*int_array)[c - 1][k - ccount] = 0;
    }
}

else
if (!strcmp(head, buf))
    start = 1;
}

return c;
}

/*****
loadMenuTree : loads the menutree from file to menuList array
*****/
int loadMenuTree (FILE *fp, char *head)
{
    char buf[256];
    int i, j, start = 0, count = 0;
    fseek(fp, 0, 0);
    while (fgets(buf, 255, fp) != NULL)
    {
        j = strlen(buf);
        if (buf[j - 1] == '\n')
            buf[j - 1] = 0;
        if (start)
        {
            if (strlen(buf) == 0)
                break;
            menuList = (int **)realloc(menuList, (count + 1) * sizeof(int *));

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        menuList[count] = (int *)malloc(3 * sizeof(int));
        sscanf(buf, "%d,%d,%d\n", &menuList[count][0],
&menuList[count][1],&menuList[count][2]);
        count++;
    }
    else
        if (!strcmp(head, buf))
            start = 1;
    }
    return count ;
}

```

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readini(char * filenm)
{
    FILE * fp;
    char buf[80], key[80], value[80], comment[80];
    int cnt;
    if ((fp=fopen(filenm,"r"))==NULL)
    {
        perror(filenm);
        exit(1);
    }
    while (fgets(buf,79,fp)!=NULL)
    {
        sscanf(buf,"%s %s %s",key,value, comment);
        if (!strcmp(key, "sdoc"))
            sdoc=strdup(value);
        if (!strcmp(key, "fdoc"))
            fdoc=strdup(value);
        if (!strcmp(key, "xdoc"))
            xdoc=strdup(value);
        if (!strcmp(key, "cfg"))
            cfg=strdup(value);
        if (!strcmp(key, "lcfg"))
            lcfg=strdup(value);
        if (!strcmp(key, "minprompt"))
            minPromptCount=atoi(value);
        if (!strcmp(key, "timeout"))
            timeout=atoi(value);
    }
}

```


interactive.c: This program contains funtions related to user interaction

Interactive : function to accept a sentence from the user and then
generate the response.

thesaurusFlag = is 1 if there is atleast 1 thesaurus/learned word in query
updateFlag = is set to 1 if the program needs to learn (i.e. main menu was
selected during the prompt navigation)

interPrompts = Intersection of prompts

unionPrompts = Union of prompts

interUnionPrompts = Intersection of Union

numInter = number of prompts in InterPrompts

numInterUnion = num of prompts in Intersection of Union

numUnion = num of prompts in Union

numUnknown = num of unknown words

*****/

#include <stdio.h>

#include <signal.h>

#include <string.h>

#include <unistd.h>

#include "globalvar.h"

#include "arraylib.h"

#include "forms.h"

#define max(a,b) (a > b)? a: b

#define min(a,b) (a < b)? a: b

#define swap(a,b) (a ^= b, b ^= a, a ^= b)

extern int numScore, **scoring;

int updateFlag = 0, learnFlag, numQueryList = 0;

FILE *lf, *pf;

char **uWList=NULL, *queryTerms[50];

int uWNum;

extern int minPromptCount, timeout;

char query[256], **queryList = NULL;

char *affirmWords[] = { "yes", "right", "correct"};

char *negWords[] = { "no", "neither"};

extern char * fdoc;

int otheFlag = 0;

int unknownWords[20], numQuery = 0, numUnknown;

char **uWords; // Added this array to facilitate learning wven if lateral shift

int numUW; // Added this to facilitate learning wven if lateral shift

void sayOther();

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