

JOURNAL MANAGEMENT SYSTEM

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Project Statement

A journal management system using linked lists
that tracks your daily entries and summarises
your weekly mood for you.

Use of linked lists to help you track your **daily experiences** and moods throughout the week. By efficiently organizing your entries, it provides an **insightful summary of your weekly emotional journey**.

Gain a clear perspective on your mood fluctuations and experiences as you navigate each day, empowering you to **reflect, understand, and manage your emotions effectively**.

Our Structures

```
typedef struct {  
    int day;  
    int month;  
    int year;  
}date;
```

```
typedef struct diary{  
    date d;  
    char content[1000];  
    struct diary* next;  
}diary;
```

<u>Members</u>	<u>Data type</u>
Day	
Month	
Year	
	}
Date	
Content	
	}

FUNCTIONS DEFINED

Declaring various functions essential for carrying out various operations to search, display and creating a user interface.

```
diary *insert(diary *p);
void display(diary *head);
diary * search(diary *,date);
void display1(diary *);
void analysis();
int menu();
```

Main Function

```
int main(){
    int op,x;date d;
    diary *head=NULL, *p;
    do{
        op=menu();
        switch(op){
            case 1: head=insert(head);break;
            case 2: display(head); break;
            case 3: {
                printf("\nEnter the date to the diary entry : ");
                scanf("%d%d%d",&d.day,&d.month,&d.year);
                p=search(head,d);
                display1(p);break;
            }
            case 4: analysis(head);
            case 5: exit (0);
        }
    }while(op!=3);
    return 0;
}
```

Standard sub-menu using
do-while loop to handle
operations AFTER calling the
menu function.

MENU

```
int menu(){
    int op;
    printf("\n1]Make an entry\n2]Display\n3]Search entry\n4]See Analysis\n5]Exit\n");
    printf("\nEnter your choice: ");
    scanf("%d",&op);
    return op;
}
```

User Interface to cater to the different requirements needed by the user.
i.e., Will help user to choose what function he'd like to use.

Insert function

```
diary *insert(diary *head){  
    diary *p= getNode();  
    p->next=head;  
    head=p;  
    return(head);  
}
```

Getting Date function

```
date getDate(){
    static int d=01,m=01,yr=2024;
    date p;
    p.day=d++;
    if (d==31) {d=1;m++;}
    p.month=m;
    if (m==13){m=1;yr++;}
    p.year=yr;
    return p;
}
```

Get new node

SKILL learnt:
Clean coding:

```
diary * getNode(){
    diary *p= (diary *)malloc(sizeof(diary));
    p->next=NULL;
    printf("\n--- Hey! How was your day? ---:\n");
    printf(" --- Dear Diary, ---:");
    p->d=getDate();
    scanf("%[^.].", p->content);
    return p;
}
```

- easy debugging
- easy to read

display function

```
void display(diary *head){  
    diary *t=head;  
    while(t!=NULL){  
        printf("\nOn date %d/%d/%d %s", t->d.day,t->d.month,t->d.year, t->content);  
        printf("\n-----\n");  
        t=t->next;  
    }  
    printf("\n\n\n");  
}  
  
void display1(diary *t){  
    printf("\n\n On date %d/%d/%d %s", t->d.day,t->d.month,t->d.year, t->content);  
    printf("\n-----\n");  
    printf("\n\n\n");  
}
```

search function

```
diary * search(diary *head,date d){  
    diary *t=head;  
    while(t!=NULL){  
        if((t->d.day==d.day) && (t->d.month==d.month) && (t->d.year==d.year)){  
            return t;  
        }  
        t=t->next;  
    }  
    return NULL;  
    printf("\n\n\n");  
}
```

Remove stop words and check mood function

```
char ** removeStop(char t[]){
    char *tok; char impWrd[100][20];int j=0;
    int i;
    char stop[20][10]={"i","and","we","today","was","a","day","am","had","lunch","early","went","if","to","be","so","there","here","college"};
    tok=strtok(t," ");
    while(tok){
        for(i=0;strcmp(stop(i),tok)!=0;i++);
        if(i==20) strcpy(impWrd[j++],tok);
    }
    return impWrd;
}
void checkPosNeg(char text[][20], int *sadCnt, int *hpyCnt, int *neuCnt){
    int i=0,j=0;
    char Positive[100][20]={"good","happy","excited","joy","yay","cheerful","contented","delighted","ecstatic","elated","glad","joyful","joyous"};
    char Negative[100][20]={"unhappy","anxiety","anxious","regretful","depressed","miserable","nervous","wretched","sucked","glum","desolate","dreadful"};
    while(text[j]){
        for(i=0;strcmp(Positive[i],text[j])!=0;i++);
        if(i<18) *hpyCnt++;
        for(i=0;strcmp(Negative[i],text[j])!=0;i++);
        if(i<16) *sadCnt++;
        j++;
    }
}
```

Analysis function

USE: analyse if entry has a word belonging to mood file, increment resp. counter, print weekly mood.

```
void analysis(diary *head){  
    char text[100][20];int posper=0, negper=0;  
    int sadCnt=0, hpyCnt=0, neuCnt=0;  
    diary *t=head;  
    while(t!=NULL){  
        text=removeStop(t->content);  
        checkPosNeg(text,&sadCnt, &hpyCnt, &neuCnt);  
        t=t->next;  
        printf("\n\n The counts of happy and sad are %d and %d resp",hpyCnt,sadCnt);  
    }  
}
```

THANK YOU VERY MUCH



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