**MUSIC PLAYLIST CREATION SYSTEM**

**SOURCE CODE**

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#include<stdio.h>

#include<stdlib.h>

#include<string.h>

#include<math.h>

#include<windows.h>

#include<time.h>

/\*============================song structure============================\*/

typedef struct

{

char song\_name[30];

char artist[20];

char composer[20];

int year;

char genre[10];

}song;

/\*===song database has been created and assigned to structure========================\*/

song s[]={{{"Dusk till dawn"},{"Zayn Malik"},{"Zayn Malik"},{2017},{"Pop"}},

{{"En thaara"},{"Shadab Faridi"},{"Ghibran"},{2014},{"Love"}},

{{"Harleys in hawaii"},{"Katy Perry"},{"Katy Perry"},{2019},{"Pop"}},

{{"Into your arms"},{"Ava Max"},{"Witt Lowry"},{2018},{"Love"}},

{{"Lolita"},{"Karthik"},{"Harris Jeyaraj"},{2011},{"Love"}},

{{"Love me like you do"},{"Ellie Goulding"},{"Ellie Goulding"},{2015},{"Love"}},

{{"Marry me"},{"Karthik"},{"Harris Jeyaraj"},{2017},{"Love"}},

{{"Raatan Lambiyaan"},{"Jubin Nautiyal"},{"Tanishk Bagchi"},{2021},{"Melody"}},

{{"Shower"},{"Becky G"},{"Becky G"},{2014},{"Melody"}},

{{"Wildest Dreams"},{"Taylor Swift"},{"Taylor Swift"},{2014},{"Pop"}},

{{"Arcade"},{"Duncan Laurence"},{"Wouter hardy"},{2019},{"Sad"}},

{{"Derniere Danse"},{"Indila"},{"Indila"},{2014},{"Sad"}},

{{"Dhimmu dhimmu"},{"Karthik"},{"Muthukumar"},{2011},{"Sad"}},

{{"Heart wants what it wants"},{"Selena Gomez"},{"Selena Gomez"},{2014},{"Sad"}},

{{"Broken angel"},{"Arash"},{"Arash"},{2008},{"Sad"}},

{{"Kanpesum varthaigal"},{"Karthik"},{"Yuvan"},{2004},{"Sad"}},

{{"Talking to the moon"},{"Bruno Mars"},{"Bruno Mars"},{2010},{"Pop"}},

{{"Sorry"},{"Justin Bieber"},{"Justin Bieber"},{2015},{"Dance"}},

{{"Yen ennai pirinthaai"},{"Sid Sriram"},{"Radhan"},{2019},{"Sad"}},

{{"You are the reason"},{"Calum Scott"},{"Calum Scott"},{2018},{"Pop"} } ,

{{"Faded"},{"Alan Walker"},{"Alan Walker"},{2015},{"Sad"}},

{{"Kaathal Aasai"},{"Yuvan"},{"Yuvan"},{2017},{"Melody"}},

{{"Memories"},{"Maroon"},{"Micheal Pollak"},{2020},{"Melody"}},

{{"Mun andhi"},{"Harris Jeyaraj"},{"Harris Jeyaraj"},{2011},{"Melody"}},

{{"Nallai allai"},{"Karthik chinmayi"},{"ARR"},{2018},{"Melody"}},

{{"Nillayo"},{"Sathyaprakash"},{"Haricharan"},{2017},{"Melody"}},

{{"Perfect"},{"One Direction"},{"One Direction"},{2015},{"Melody"}},

{{"Thousand Years"},{"Christina Perri"},{"Christina Perri"},{2011},{"Pop"}},

{{"Watermelon Sugar"},{"Harry Styles"},{"Harry Styles"},{2019},{"Melody"}},

{{"Baby"},{"Justin Bieber"},{"Ludacris"},{2010},{"Pop"}},

{{"Butter"},{"BTS"},{"BTS"},{2021},{"Dance"}},

{{"Come and get it"},{"Selena Gomez"},{"Selena Gomez"},{2013},{"Dance"}},

{{"Dynamite"},{"BTS"},{"BTS"},{2020},{"Dance"}},

{{"Levitating"},{"Dua Lipa"},{"Dua Lipa"},{2020},{"Pop"}},

{{"No Lie"},{"Dua Lipa"},{"Sean Paul"},{2017},{"Dance"}},

{{"Shake it off"},{"Taylor Swift"},{"Taylor Swift"},{2014},{"Dance"}},

{{"Senorita"},{"Shawn mendes"},{"Camila cabello"},{2019},{"Love"}},

{{"Somebody to you"},{"The vamps"},{"Demi Lovato"},{2011},{"Rap"}},

{{"Stay"},{"Justin Bieber"},{"KID Laroi"},{2020},{"Rap"}},

{{"Abcdefu"},{"Gayle"},{"Gayle"},{2021},{"Rap"}},

{{"Adiye"},{"Kapil Kapilan"},{"GKB"},{2021},{"Love"}},

{{"Chellamma"},{"Anirudh"},{"Sivakarthikeyan"},{2021},{"Love"}},

{{"Chakka Chakkalathi"},{"Jonita Gandhi"},{"Karky"},{2021},{"Dance"}},

{{"De una vez"},{"Selena Gomez"},{"Selena Gomez"},{2021},{"Pop"}},

{{"Kings and Queens"},{"Ava Max"},{"Ava Max"},{2020},{"Dance"}},

{{"Life Goes on"},{"Oliver Tree"},{"Oliver Tree"},{2020},{"Rap"}},

{{"Peaches"},{"Justin Bieber"},{"Giveon"},{2021},{"Rap"}},

{{"Aathadi Aathadi"},{"Dhanush"},{"Harris Jeyaraj"},{2018},{"Melody"}},

{{"Fairytale"},{"Alexander Rybak"},{"Kim Bergsath"},{2009},{"Melody"}},

{{"Ethir Neechal"},{"Anirudh"},{"Vaali"},{2013},{"Pop"}}};

/\*======================== structure for user credentials===========================\*/

struct user

{

char login\_id[15];

char password[10];

}u[20];

char user\_login\_id[20];

//admin user id and password

char admin\_id[]={"admin"};

char admin\_pwd[]={"ad123"};

//existing user id along with their password

struct user u[]={{"mahizha","ma123"},{"jananee","ja123"},{"nithya","ni123"},{"ramya","ra123"},{"varun","va123"},{"mangai","ma123"},{"kumar","ku123"},{"ishani","is123"},{"sweatha","sw123"},{"sakthi","sa123"}};

//function prototype

void welcome();

int login();

void admin();

void user\_playlist();

/\*==========================main function=========\*/

int main()

{

int n;

welcome();

n=login();

system("cls");

switch(n)

{

case 1:

{

system("color E4");

admin();

}break;

case 2:

case 3:

{

system("color B0");

user\_playlist();

}break;

}

/\*===============================end of the main program=======================\*/

system("cls");

system("color E1");

printf("\n\n\t\t\t--------------------\*THANKS FOR VISTING\*----------------------");

printf("\n\n\t\t\t-----------------HOPE YOU LIKED THE SONGS :) ----------------- \n");

printf("\n\n\t\t\t------LET MUSIC FLOW IN YOUR HEART AND ENRICH YOUR SOUL------\n\n");

return 0;

}

/\*==========================================welcome function=====================\*/

void welcome()

{

system("color 17");

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

printf("\t\t====================WELCOME TO THE WORLD OF MUSIC================\n");

printf("\t\t|| ============================= ||\n");

printf("\t\t|| MUSIC IS THE SOUND TRACK OF OUR LIFE ||\n");

printf("\t\t|| ||\n");

printf("\t\t|| \*\*\*\*\*LET'S FEEL ITS RHYTHM\*\*\*\*\* ||\n");

printf("\t\t|| ||\n");

printf("\t\t|| ||\n");

time\_t t;

time(&t);

printf("\t\t CURRENT TIME IN OUR MUSIC WORLD:%s\n",ctime(&t));

printf("\n\t\t====================================================================\n");

}

/\*=====================================login function=============================\*/

int login()

{

int n,i;

printf("\n\t\tMAIN MENU");

printf("\n\n\t\t1.ADMIN");

printf("\n\n\t\t2.EXISTING USER");

printf("\n\n\t\t3.NEW USER");

printf("\n\n\t\t4.EXIT");

printf("\n\n\n\t\t\tENTER YOUR CHOICE:");

scanf("%d",&n);

//verifies user id and password

switch(n)

{

case 1:

{

//if the user id is admin

char check\_admin[20],check\_pwd[10];

list:

printf("\n\n\t\t\tENTER THE ADMIN ID:");

scanf("%s",check\_admin);

if(strcmp(check\_admin,admin\_id)==0)

{

p:

printf("\n\t\t\tENTER THE ADMIN PASSWORD:");

for(i=0;i<5;i++)

{

check\_pwd[i]=getch();

printf("\*");

}

check\_pwd[i]='\0’;

if(strcmp(check\_pwd,admin\_pwd)==0)

{

printf("\nWELCOME ADMIN!!\n");

}

else

{

printf("\n\t\t\tENTER A VALID PASSWORD \n ACCESS DENIED!\n");

goto p;

}

}

else

{

printf("\t\t\tENTER A VALID ADMIN ID\nACCESS DENIED!\n");

goto list;

}

}break;

case 2:

{

//if it is an existing user

int i,flag=0,j;

char id\_check[20],pwd\_check[20];

list1:

printf("\n\n\t\t\tENTER YOUR USER ID:");

scanf("%s",id\_check);

for(i=0;i<10;i++)

{

if(strcmp(id\_check,u[i].login\_id)==0)

{

strcpy(user\_login\_id,id\_check);

p1:

printf("\n\n\t\t\tENTER THE USER PASSWORD:");

for(j=0;j<5;j++)

{

pwd\_check[j]=getch();

printf("\*");

}

pwd\_check[j]='\0';

if(strcmp(pwd\_check,u[i].password)==0)

{

printf("\n\n\t\t\tWELCOME BACK TO YOUR MUSIC WORLD!! ENJOY :)\n");

flag=0;

break;

}

else

{

printf("\n\n\t\t\tENTER A VALID PASSWORD\n\t\t\t\tACCESS DENIED!\n");

goto p1;

}

}

else

flag=1;

}

if(flag)

{

printf("\n\t\t\tENTER A VALID USER ID\n\t\t\t\tACCESS DENIED!\n");

goto list1;

}

}break;

case 3:

{

//if the user is new to the music world

int i,j,flag=0;

char check\_id[20],check\_pd[20];

printf("\n\n\t\t\tWELCOME TO MUSIC WORLD!\n\t\t\t\tCREATE A YOUR NEW LOGIN ID: ");

p2:

scanf("%s",check\_id);

for(i=0;i<10;i++)

{

if(strcmp(check\_id,u[i].login\_id)==0)

{

flag++;

printf("\n\n\t\t\tUSER ID ALREADY EXISTS . PLEASE ENTER ANOTHER ID: ");

goto p2;

}

else

flag=0;

}

if(flag==0)

{

strcpy(user\_login\_id,check\_id);

printf("\n\n\t\t\tENTER A PASSWORD FOR YOUR USER(5 characters):");

for(j=0;j<5;j++)

{

check\_pd[j]=getch();

printf("\*");

}

check\_pd[j]='\0';

return n;

}

}break;

}

return n;

}

/\*================admin function================\*/

void admin()

{

int choice,i;

FILE \*fp;

//writing the user id to admin file

fp=fopen("userlist.txt","w+");

fprintf(fp,"LIST OF USERS:\n");

for(i=0;i<10;i++)

{

fprintf(fp,"%d. %s\n",i+1,u[i].login\_id);

}

fclose(fp);

int j;

FILE \*fp1;

//writing the songs database into songs list file

fp1=fopen("songslist.txt","w");

fprintf(fp1,"\t\tLIST OF SONGS:\n");

fprintf(fp1,"SNO\tSONG\_NAME\tARTIST\tCOMPOSER\tYEAR\tGENRE\n");

for(j=0;j<50;j++)

{

fprintf(fp1,"%d\t%s\t%s\t%s\t%d\t%s\n",j+1,s[j].song\_name,s[j].artist,s[j].composer,s[j].year,s[j].genre);

}

fclose(fp1);

printf("\n\n\t\t\tWELCOME ADMIN!!\n");

do

{

//privileges available for the admin

printf("\n\n\t\t\tWELCOME TO YOUR MAIN MENU:");

printf("\n\n\t\t\t1.TO VIEW THE LIST OF USERS");

printf("\n\n\t\t\t2.TO DISPLAY THE SONGSLIST");

printf("\n\n\t\t\t3.EXIT\n");

printf("\n\t\t\tENTER YOUR CHOICE:");

scanf("%d",&choice);

switch(choice)

{

case 1:

{

//admin can view the user id

char ch;

fp=fopen("userlist.txt","r");

ch=fgetc(fp);

while(!feof(fp))

{

printf("%c",ch);

ch=fgetc(fp);

}

fclose(fp);

}break;

case 2:

{

//admin can view the song list

char ch1;

fp1=fopen("songslist.txt","r");

ch1=fgetc(fp1);

while(!feof(fp1))

{

printf("%c",ch1);

ch1=fgetc(fp1);

}

fclose(fp1);

}break;

}

}while(choice!=3);

}

/\*====================================user play list function=========================\*/

void user\_playlist()

{

FILE \*fp2;

int empty=1;

int option,music,i,i1=1;

printf("\n\n\n\t\t\tWARM GREETING TO YOU %s !\n\t\t\tIT IS LOVELY TO HAVE YOU AMONG US \n",user\_login\_id);

do

{

printf("\n\n\t\tUSER MENU");

printf("\n\n\t\t1.CREATE YOUR OWN PLAYLIST");

printf("\n\n\t\t2.DISPLAY YOUR PLAYLIST");

printf("\n\n\t\t3.DELETE YOUR PLAYLIST");

printf("\n\n\t\t4.EXIT");

printf("\n\n\t\tENTER YOUR CHOICE:"); //asking user for the option to perform

scanf("%d",&option);

switch(option)

{

//creating own play list

case 1:

{

empty=0;

fp2=fopen(user\_login\_id,"a+");

//choosing the play list from a specific genre based on our preference

printf("\n\n\t\tMUSIC MENU");

printf("\n\t\t1.POP");

printf("\n\t\t2.LOVE");

printf("\n\t\t3.MELODY");

printf("\n\t\t4.SAD");

printf("\n\t\t5.DANCE");

printf("\n\t\t6.RAP");

printf("\n\n\t\tENTER YOUR SPIRIT OF MUSIC: ");

scanf("%d",&music);

printf("\n\n \t\t\t PLAYLIST CREATED AND STORED IN YOUR FILE \n\n");

//displaying play list based on our mood

switch(music)

{

case 1:

{

for(i=0;i<50;i++)

{

if(strcmp(s[i].genre,"Pop")==0)

fprintf(fp2,"%d %s \n",i1++,s[i].song\_name);

}

fclose(fp2);

}break;

case 2:

{

for(i=0;i<50;i++)

{

if(strcmp(s[i].genre,"Love")==0)

fprintf(fp2,"%d %s \n",i1++,s[i].song\_name);

}

fclose(fp2);

}break;

case 3:

{

for(i=0;i<50;i++)

{

if(strcmp(s[i].genre,"Melody")==0)

fprintf(fp2,"%d %s \n",i1++,s[i].song\_name);

}

fclose(fp2);

}break;

case 4:

{

for(i=0;i<50;i++)

{

if(strcmp(s[i].genre,"Sad")==0)

fprintf(fp2,"%d %s \n",i1++,s[i].song\_name);

}

fclose(fp2);

}break;

case 5:

{

for(i=0;i<50;i++)

{

if(strcmp(s[i].genre,"Dance")==0)

fprintf(fp2,"%d %s \n",i1++,s[i].song\_name);

}

fclose(fp2);

}break;

case 6:

{

for(i=0;i<50;i++)

{

if(strcmp(s[i].genre,"Rap")==0)

fprintf(fp2,"%d %s \n",i1++,s[i].song\_name);

}

fclose(fp2);

}break;

}

}break;

//displaying play list

case 2:

{

char ch2;

fp2=fopen(user\_login\_id,"r");

if(fp2==NULL)

{

printf("\n\t\t\tERROR CNANOT OPEN YOUR FILE!!\n");

exit(1);

}

printf("\n\t\t\tHI! %s \n",user\_login\_id);

//displaying existing songs in your play lst

if(empty==0)

{

printf("\t\t\tWOW IT SEEMS YOU HAVE A GREAT TASTE OF MUSIC :)\n");

printf("\t\t\tHERE IS YOUR PLAYLIST\n");

ch2=fgetc(fp2);

while(!feof(fp2))

{

printf("%c",ch2);

ch2=fgetc(fp2);

}

fclose(fp2);

}

//if your play list is empty

else if(empty==1)

{

printf("\n\t\tOOPS! IT SEEMS YOUR PLAYLIST IS EMPTY :( \n");

fclose(fp2);

}

}break;

//deleting the songs from your playlist

case 3:

{

char q;

printf("\n\t\t\t ARE YOU SURE TO DELETE YOUR PLAYLIST(Y/N)");

scanf(" %c",&q);

if(q=='Y'|| q=='y')

{

empty=1;

fp2=fopen(user\_login\_id,"w");

printf("\n\n\t\t\tYOUR PLAYLIST IS DELETED\n");

fclose(fp2);

}

}break;

}

}while(option!=4);

}