MUSIC VINYL MANAGEMENT SYSTEM

A MAJOR PROJECT REPORT

Submitted by

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Under the Guidance of

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in partial fulfilment of the requirements for the degree of

BACHELOR OF TECHNOLOGY in

COMPUTER SCIENCE ENGINEERING with specialization in Cybersecurity



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INTRODUCTION:

- The main objective is to make a data management system using file input output.
- With this program we can insert and search for stored music vinyl records.
- The record details include a vinyl code, the name of the vinyl/album and the name of the music artist.
- Data structures are utilized to make the storing and retrieving of data easier.
- A .txt file is used to permanently store the data completely locally on the machine itself.
- An exit option is implemented in the code to exit it easily.

SOURCE CODE

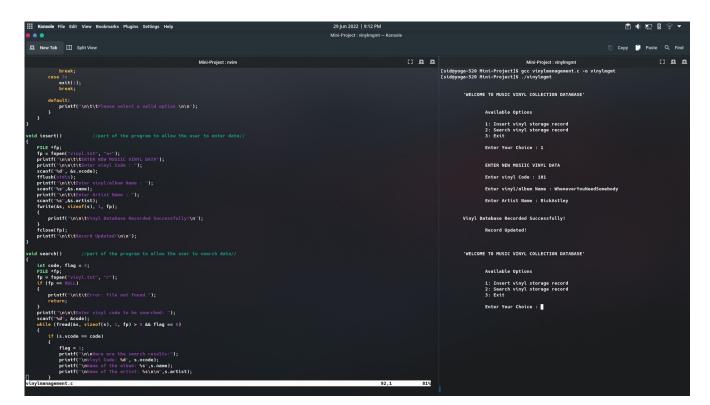
```
//Start of program//
//Importing header files//
#include <stdio.h>
#include <stdlib.h>
//User defined functions//
void insert();
void search();
//Creating structure for easier data management//
struct vin
  int vcode;
  char name[50];
  char artist[50];
};
struct vin s;
void main()
  int choice;
  while (choice != 3)
    printf("\n\n");
    printf("\t'WELCOME TO MUSIC VINYL COLLECTION DATABASE'\n\n\n");
                                                                                     //Part
to be displayed to the end user//
    printf("\t\tAvailable Options\n\n");
    printf("\t\t1: Insert vinyl storage record\n");
    printf("\t\t2: Search vinyl storage record\n");
    printf("\t\t3: Exit\n\n");
    printf("\t\tEnter Your Choice : ");
    scanf("%d", &choice);
    switch (choice)
                           //Switch case to load the appropriate part of the program as
per the user's choice//
    {
    case 1:
      insert();
```

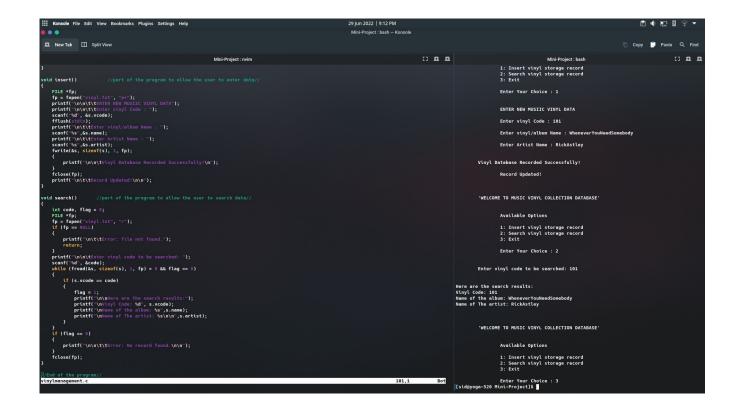
```
break;
    case 2:
       search();
       break;
    case 3:
       exit(1);
       break;
    default:
       printf("\n\t\tPlease select a valid option.\n\n");
    }
  }
}
void insert()
                   //part of the program to allow the user to enter data//
{
  FILE *fp;
  fp = fopen("vinyl.txt", "a+");
  printf("\n\n\t\tENTER NEW MUSIIC VINYL DATA");
  printf("\n\n\t\tEnter vinyl Code : ");
  scanf("%d", &s.vcode);
  fflush(stdin);
  printf("\n\t\tEnter vinyl/album Name : ");
  scanf("%s",&s.name);
  printf("\n\t\tEnter Artist Name : ");
  scanf("%s",&s.artist);
  fwrite(&s, sizeof(s), 1, fp);
    printf("\n\n\tVinyl Database Recorded Successfully!\n");
  }
  fclose(fp);
  printf("\n\t\tRecord Updated!\n\n");
}
void search()
                 //part of the program to allow the user to search data//
  int code, flag = 0;
  FILE *fp;
  fp = fopen("vinyl.txt", "r");
  if (fp == NULL)
  {
```

```
printf("\n\t\tError: file not found.");
    return;
  }
  printf("\n\n\tEnter vinyl code to be searched: ");
  scanf("%d", &code);
  while (fread(&s, sizeof(s), 1, fp) > 0 && flag == 0)
  {
    if (s.vcode == code)
    {
       flag = 1;
       printf("\n\nHere are the search results:");
       printf("\nVinyl Code: %d", s.vcode);
       printf("\nName of the album: %s",s.name);
       printf("\nName of The artist: %s\n\n",s.artist);
    }
  }
  if (flag == 0)
  {
    printf("\n\n\t\tError: No record found.\n\n");
  fclose(fp);
}
//End of the program//
```

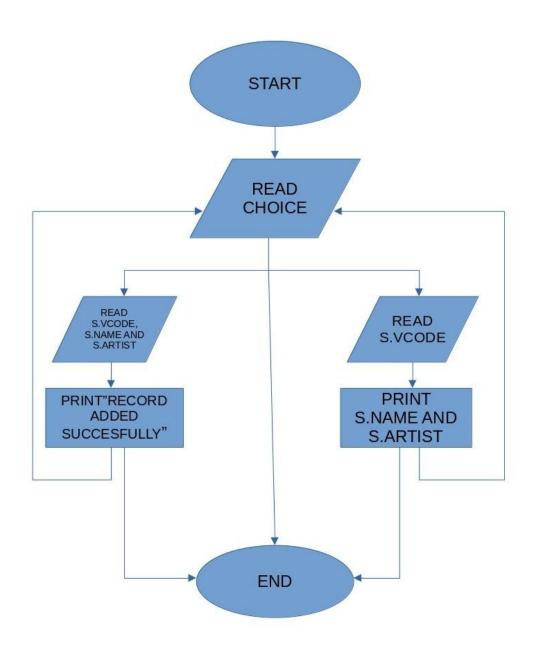
OUTPUT AND SCREENSHOTS

```
Konsole File Edit View Bookmarks Plugins Settings Help
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■ New Tab □ Split View
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                          Mini-Project: nvim
                                                                                                                                                                              0 0 0
                                                                                                                  [sid@yoga-520 Mini-Project]$ gcc vinylmanagement.c -o vinylmgmt
[sid@yoga-520 Mini-Project]$ ./vinylmgmt
                                                                                                                              Available Options
                                                                                                                              1: Insert vinyl storage record
2: Search vinyl storage record
3: Exit
                                                                                                                              Enter Your Choice :
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     exit(1);
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        ault:
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                                                                                                             Top
```





FLOWCHART



Project link: https://github.com/sr6865/Mini-Project