**Music Database Management System**

**Main Function**

1. Add Data
2. View Data
3. Modify Data
4. Delete Data
5. Exit Database

**Data needed**

1. Music Id
2. Song Name
3. Singer Name
4. Language
5. Music Length

**Include**

1. Iostream
2. Stdio.h (for fopen and etc)
3. Stdlib (For system clear)
4. String (For compare string to search data)

**Function Coding Concept**

**(一) Data Name**

I)Music id = id (unsigned int)

II)Song name = song\_name (char[50])

III)Singer name = singer\_name1 & singer\_name2 & singer\_name3 (char[50])

IV)Language = language (char[20])

V)Music Length = length (double)

**(二) Point File**

Main file = fp

Temp file = ft

**(三) Other Command**

recsize = sizeof(e)

char another (A question to enable User answer Y/N to continue)

char choice (For the use of switch case)

char search[50] (For search purpose)

**Section One: Insert Data**

1)Fileseek(fp, 0, seek\_end)

2)Another;

3)While Y (Y or y) = input

4)fwrite

5)fflush(stdin)

6)Another

**Section Two: View Data**

1. Rewind
2. Make sure read file == true
3. While true, cout Data
4. System (“pause”)

**Section Three: Modify Data**

1. Another = True in precondition
2. While another = “Y” or “y” enable search
3. Search cin (enter song or singer name)
4. Make sure read file == true
5. If (strcmp(search, singer\_name || song\_name) == 0)
6. Cout << ID, Singer\_name,song\_name;
7. Cin ID\_temp
8. If (strcmp(id\_temp, id) == 0)
9. Cin new song, new singer, new length
10. fseek(fp, -recsize, SEEK\_CUR);
11. fwrite(&e, recsize, 1, fp);
12. Modify another (fflush), another

**Section Four: Delete Data**

Concept: Make a ft file and renamed it as fp

1) Another = True in precondition

1. While another = “Y” or “y” enable search (User use small y)
2. Search cin (enter song or singer name)
3. Make sure read file == true
4. If (strcmp(search, singer\_name || song\_name) == 0)
5. Cout << ID, Singer\_name,song\_name;
6. If (strcmp(id\_temp, id) != 0)
7. fwrite(&e, recsize, 1, ft); (write into new file)
8. fclose ft and fp
9. remove("users.txt");
10. rename("temp.dat", "users.txt"); (New Temp Data)
11. fp = fopen("users.txt", "rb+"); (Keep Program Running)
12. cout << "\n Delete Another Record (Y/N) ";
13. fflush(stdin);
14. another = getchar();

**Section Five: Exit**

1. fclose(fp)
2. exit(0)