Presentation Slides

——Cinema Ticketing System

Tianruo Zhang

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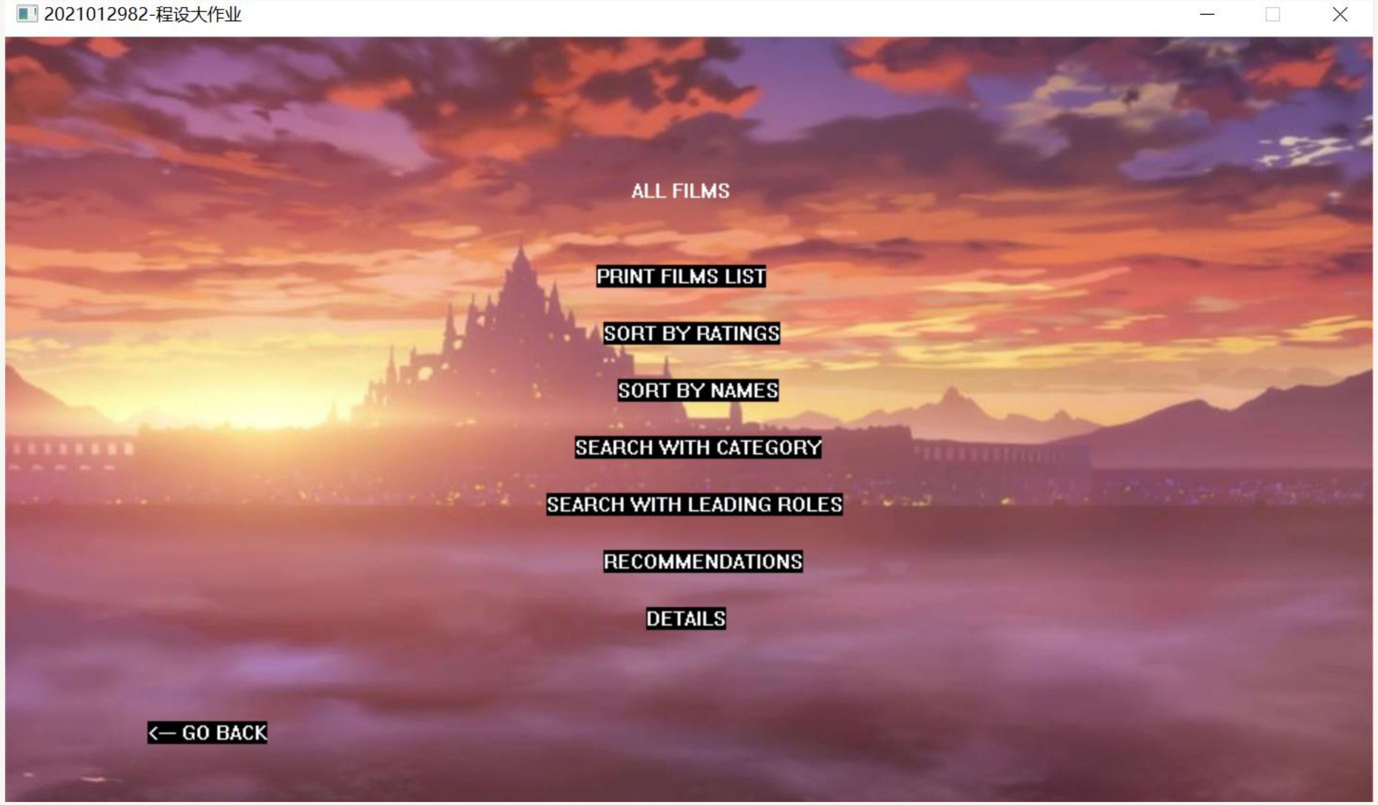
Program Structure Overview

1、Integrate the console with the EasyX graphics library to give the program a more user—friendly graphical interface.



a.Rendering images and displaying text on images

b.Black text represents buttons, triggering corresponding operations when clicked with the mouse

c.Flexible navigation between interfaces

d.Utilizing text boxes to read input

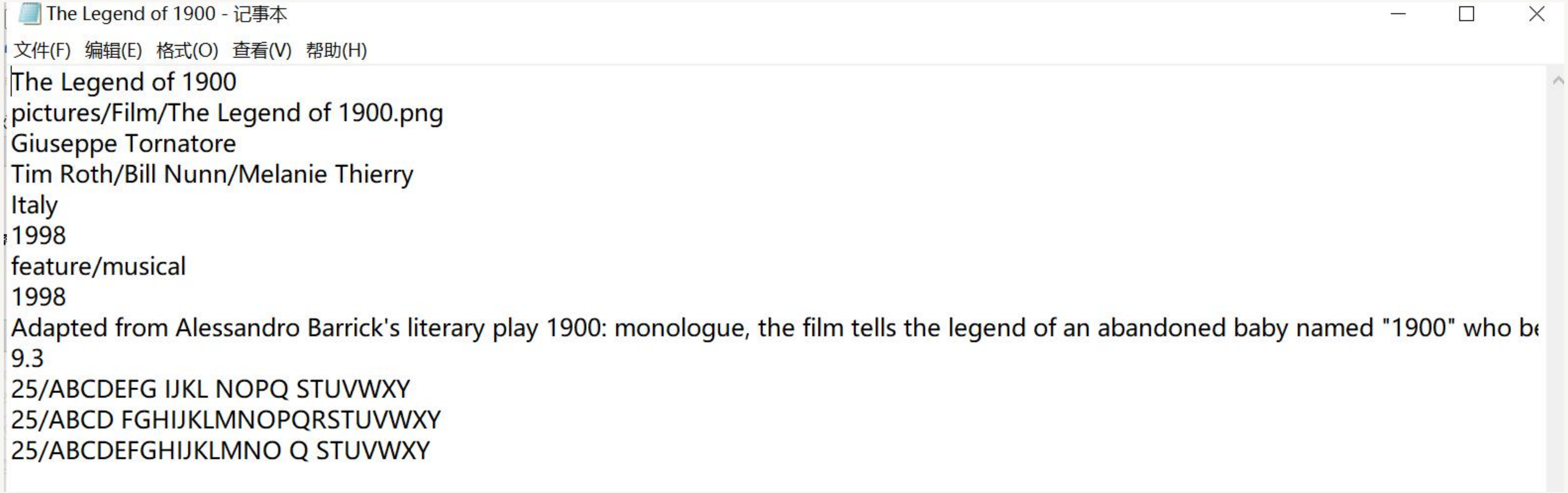
Program Structure Overview

The code implementation of interface navigation:

```
int choose;   //Variable to store the case of the clicked button
while(1)      //Implemented as a while loop to return to this interface after implementing the click function
{
        choose=page();       //Determines the case of the clicked button through the page() function
        int go_back=0;       //Variable to mark whether to exit this interface
        switch(choose)       //Switch statement to discuss cases
        {
        case 1 : {do_action();break;}
                //Calls the do_action() function to implement the function identified by this button
        case 2 : {go_back=1;break;}        //Assigns go_back to 1 to exit from this interface
        }
        if(go_back==1){break;}
                //Exits this interface, otherwise stays on this interface waiting for mouse messages
}
```

Program Structure Overview

2、Backend text, simulating the setup of a small—scale database.


The Legend of 1900 - 记事本
文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)

```
The Legend of 1900
pictures/Film/The Legend of 1900.png
Giuseppe Tornatore
Tim Roth/Bill Nunn/Melanie Thierry
Italy
1998
feature/musical
1998
Adapted from Alessandro Barrick's literary play 1900: monologue, the film tells the legend of an abandoned baby named "1900" who be
9.3
25/ABCDEFG IJKL NOPQ STUVWXY
25/ABCD FGHIJKLMNOPQRSTUVWXY
25/ABCDEFGHIJKLMNO Q STUVWXY
```

a. Data information is stored as text files, facilitating backend viewing and editing.

b. Text information is updated in real—time as modifications are made in the program.

c. Data is read from text files when needed in functions, used only as local variables, and destroyed after the relevant functions end.

Program Structure Overview

Helper functions for file operations:

```
char *cat(wchar_t *file,char package[100]);          //Concatenates file names
wchar_t *read_file(char *p);          //Reads file contents and stores them in 'w'
```

Common file operations and their algorithmic approaches:

a. Appending information to a specific file end —— Use the "a" mode.

b. Searching for a specific keyword in a file —— Read file contents, traverse the beginning characters, and use wcscmp for comparison.

c. Modifying a specific string in a file —— Read file contents, locate the string to be modified, write characters before the string using the "w" mode to the original file, then write the modified content, and finally use fwprintf(fp, &w[end]); to write the content after the string to the original file.

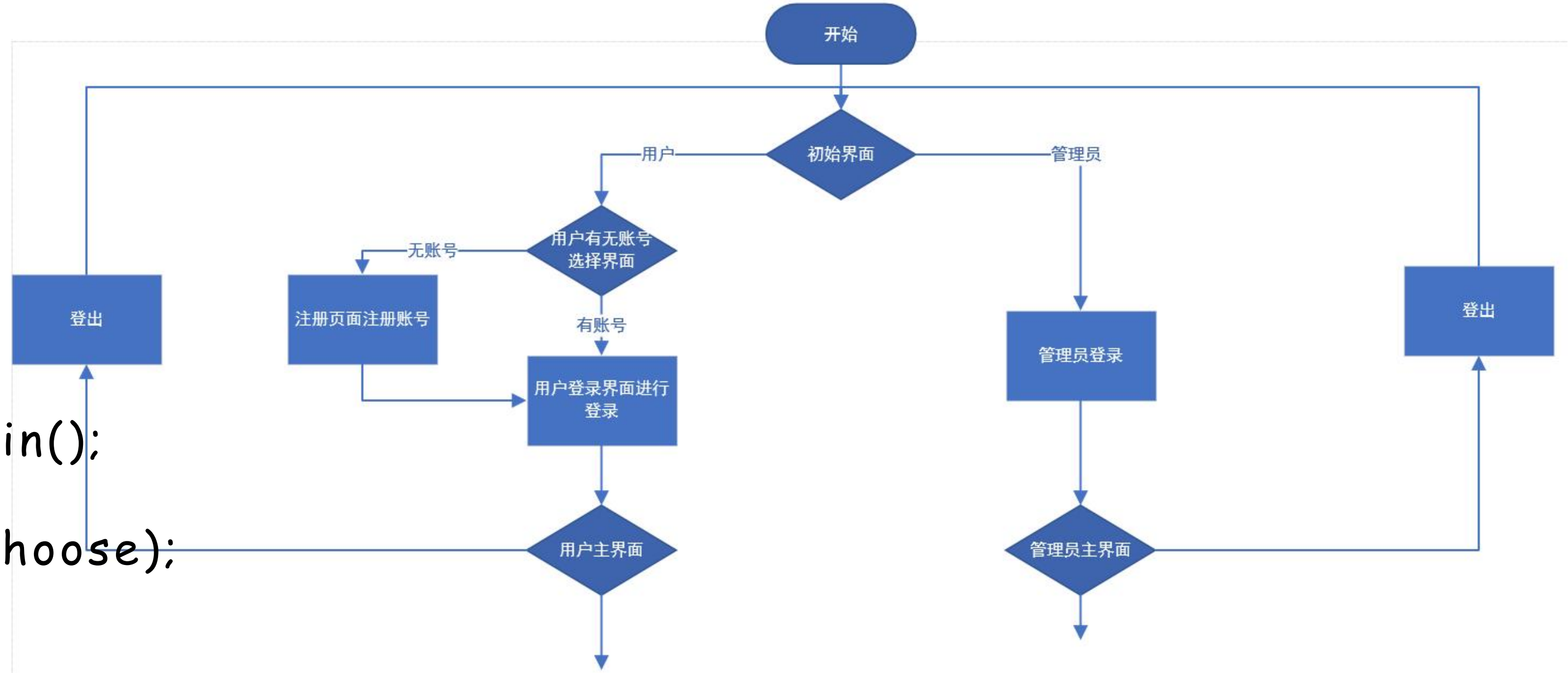
d. Deleting a file —— Use the remove() function.

e. Renaming a file —— Read the contents of the original file into an array, then write them into the new named file, and finally delete the original file.

Flowcharts of Various Interfaces and Functions

Initial Interface

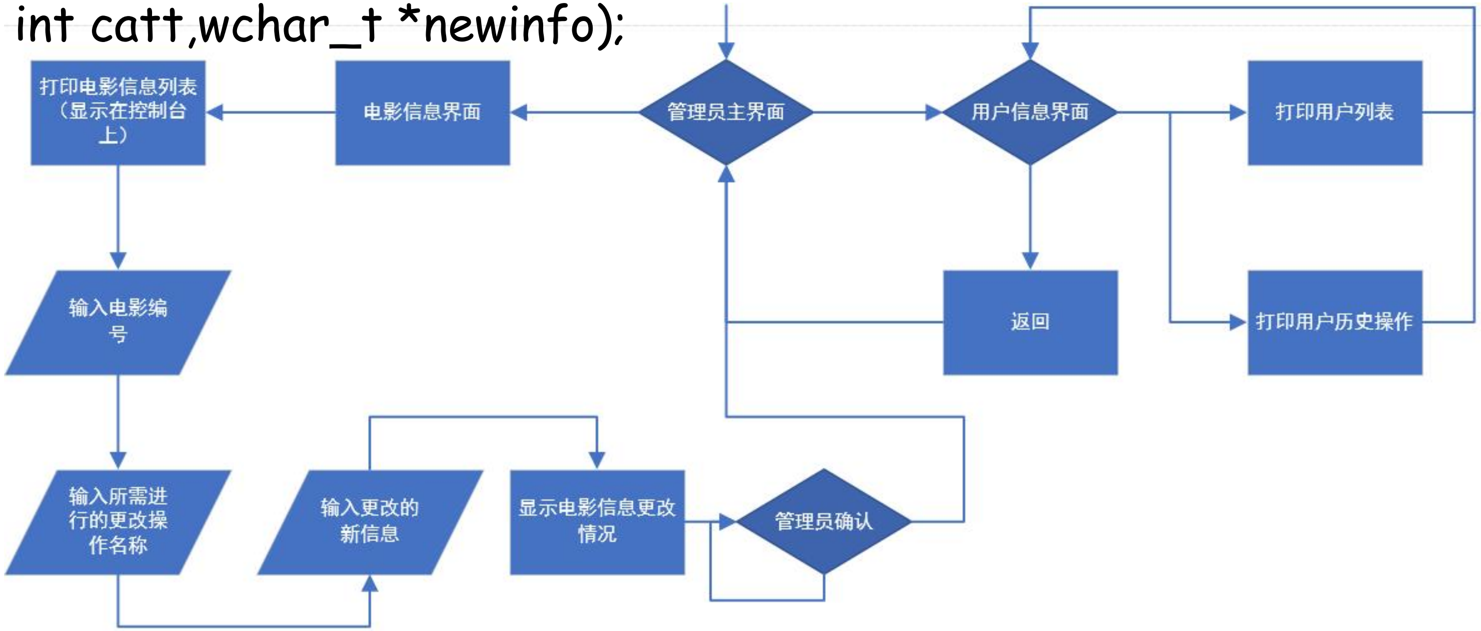
```
int login();

void administer_login();

int user_login();

void user_straightly_login();

wchar_t *new_user(int choose);

int home_page(int n);
```



Flowcharts of Various Interfaces and Functions

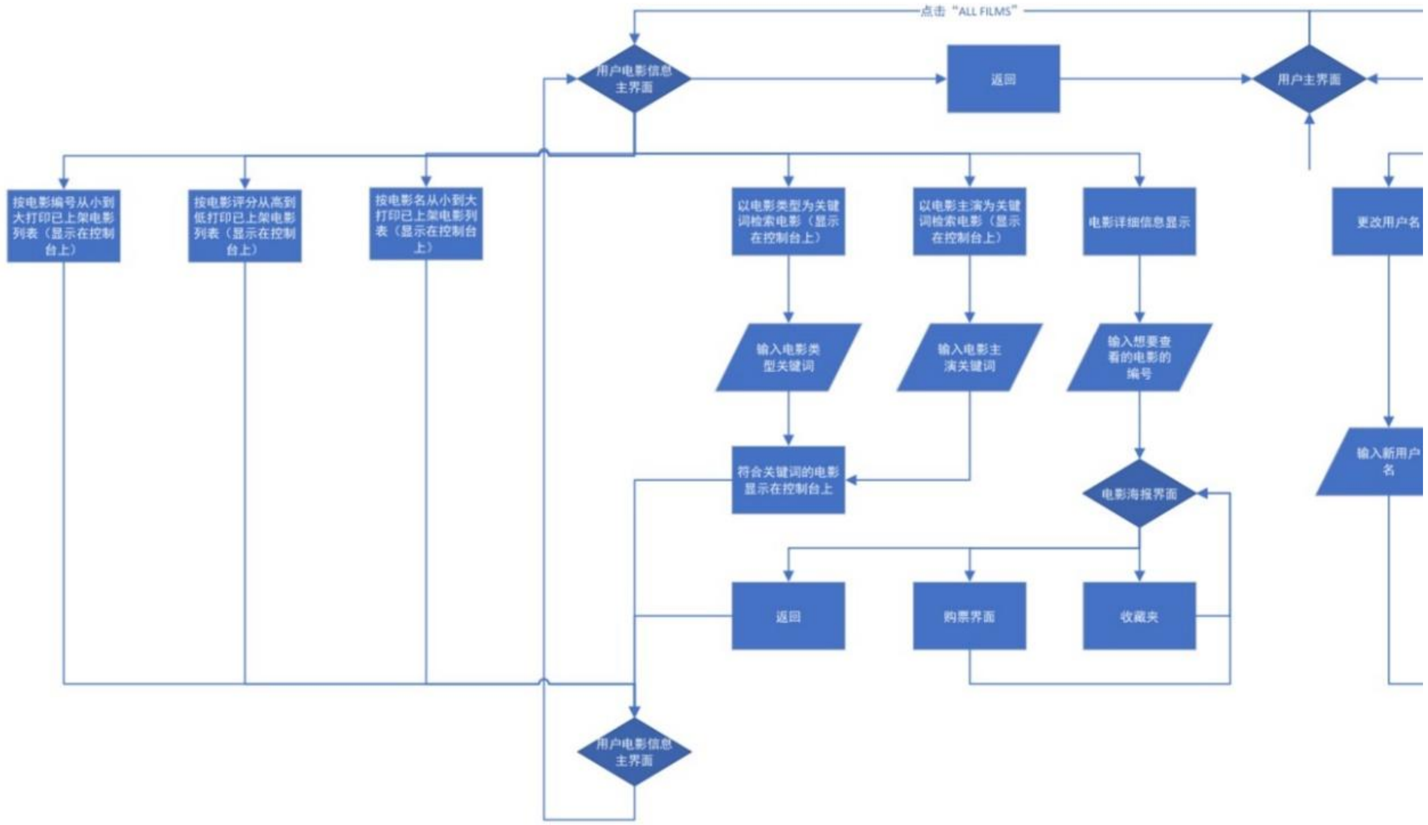
Administrator Main Interface

```
void edit_film_info(int n);
wchar_t *edit_details(wchar_t*point, int catt,wchar_t *newinfo);
 wchar_t *add_new_film();
int delete_film(wchar_t *name);
void print_user_history();
void set_ticket(wchar_t *point);
int user_info_page();
void print_user_list();
void film_if_on(wchar_t *name, wchar_t *newinfo);
```



Flowcharts of Various Interfaces and Functions

User Movie Information Interface


点击 "ALL FILMS"
用户电影信息主界面
返回
用户主界面
按电影编号从小到大打印已上架电影列表（显示在控制台上）
按电影评分从高到低打印已上架电影列表（显示在控制台上）
按电影名从小到大打印已上架电影列表（显示在控制台上）
以电影类型为关键词检索电影（显示在控制台上）
以电影主演为关键词检索电影（显示在控制台上）
电影详细信息显示
更改用户名
输入电影类型关键词
输入电影主演关键词
输入想要查看的电影的编号
输入新用户名
符合关键词的电影显示在控制台上
电影海报界面
返回
购票界面
收藏夹
用户电影信息主界面

int user_film_page();

int read_film_list(int judge);

int read_film_detailed_info(wchar_t *pointer);

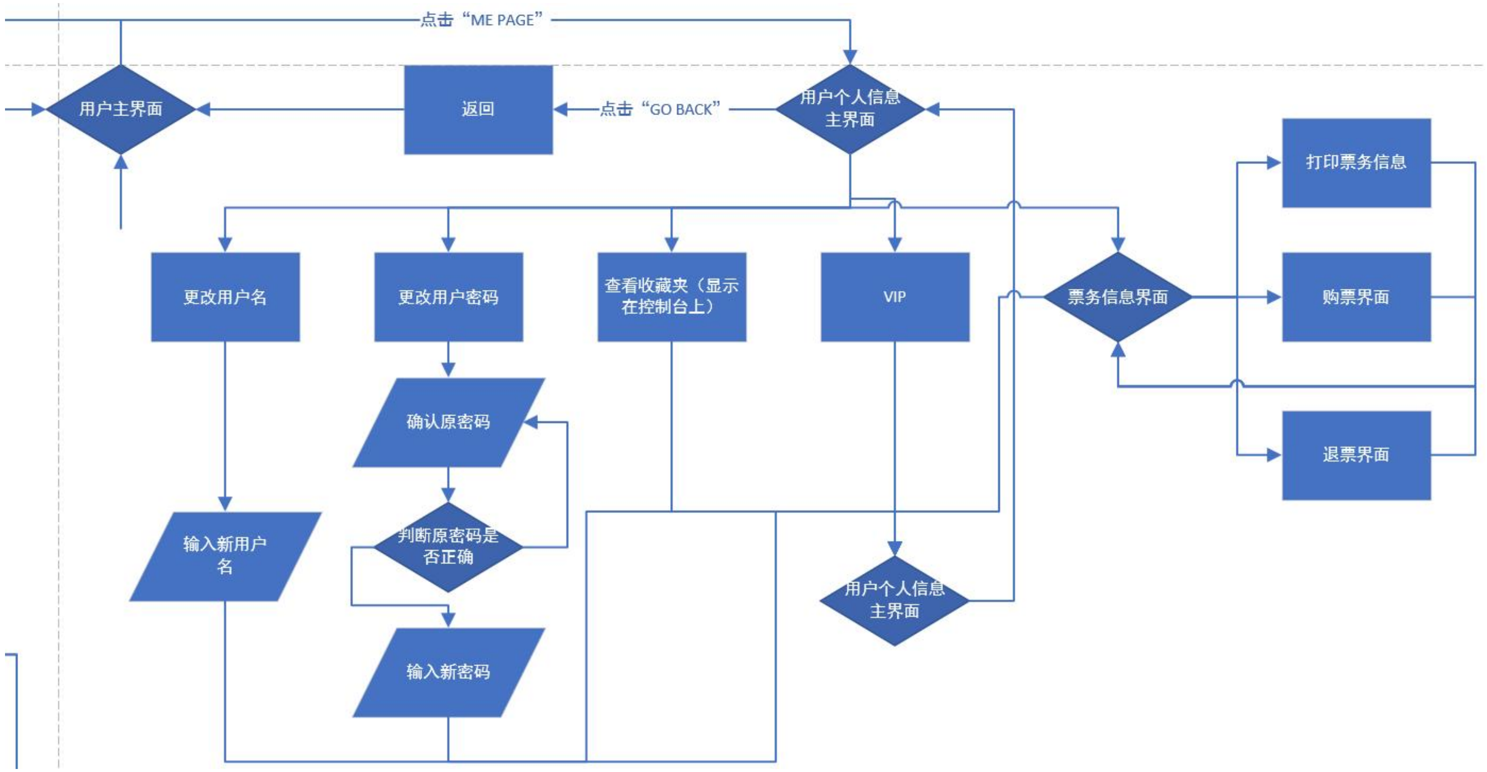
int *search_with_cat(int wherecome, wchar_t *name,int not_print);

int *search_with_roles(int wherecome, wchar_t *name,int not_print);

void add_to_favorites(wchar_t *name);
void recommend();

Flowcharts of Various Interfaces and Functions

User Personal Information Interface



int me_page();

void user_change_id();

void user_change_pswd();

void vip();

void print_favorites();

void ticket_page(wchar_t *pointer, int wherecome);

void print_ticket_info(int wherecome);

int user_ticket_info_page();

void ticket_refund();

Program Demonstration and Q&A

THANKS FOR LISTENING !