

# Satisflight Oriental

----Version 5.0----

# **User Manual**

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# I. Introduction

Satisflight is a smart flight check-in software system developed by Group 111 of Software Engineering course. Featuring a kiosk software which offers passengers self-service check-in, so they can choose seats and print boarding passes in no time. The software is equipped with a back-end management system that enables airport and airlines staffs to view check-in status and get better prepared for passengers' boarding. The main features of *Satisflight Oriental*, the 5<sup>th</sup> release of the project are beautiful full screen interface, smooth system animation and highly customizable configurations.

This manual is designed to provide users and administrators with a better understanding of the operations of *Satisflight Oriental*. If you encounter any issues during use, please visit our <u>Github Repo</u> for further support.

# **II. Instructions**

This section will guide you through how to get started with our products and provide a detailed explanation of each page's features so that you can have a complete experience.



# **2.1** Set up

# **2.1.1** Environment Requirements

	Minimal	Recommended
Operating System	Ubuntu 19/macOS 12/Windows 7	Windows 10
Processor	Intel(R) Core(TM) i3-530	Intel(R) Core(TM) i5-9300
RAM	1GB	4GB
Storage	128MB	32GB
Runtime Environment	Java 10	Java 10

#### **2.1.2** How to use

#### **Windows**

1. To use kiosk software, run:

sbin\start-kiosk.bat

2. To use back-end system, run:

sbin\start-backend.bat

#### Linux

1. To use kiosk software, run:

cd sbin

chmod 777 start-kiosk.sh

./start-kiosk.sh



#### 2. To use back-end system, run:

cd sbin

chmod 777 start-backend.sh

./start-backend.sh

#### **2.1.3** Hints

#### **User Configuration**

Since *release version 2.0: Xichang*, we have enabled user configuration, so that users can check and modify some software settings.

To edit configuration files, go to conf directory and open config.yaml with your text editor.

For detailed usage, vide 3.1 Set up.

#### **External Equipment as Authentication**

Satisflight Oriental makes use of external equipment as the authentication method. It requires scanning the ID document when confirming check-in and also uses it as an alternative way to retrieve flights.

A USB drive with passenger identification information plays the role of a de facto identification document during these operations. In other words, when you need to use an ID document, insert a USB flash disk that contains a passenger-information-populated json file. (Copying the file into your computer's hard drive is equivalent.)

For detailed usage, vide 3.2.2 ID card drive.



#### **Database Reset**

Now that our early-version databases are limit in size, you may find all flights already checked-in. To continue using the software, resetting the database may be necessary.

To reset the databases to initial state, for Windows run:

sbin\reset-database.bat

or, for Linux:

cd sbin

chmod 777 reset-database.sh

./reset-database.sh

#### 2.2 General instructions

Since Satisflight Oriental uses a full-screen layout, we introduced special global operations.

#### At the top of the screen



Left part is the welcome message. If there are no users using the program, it will display the welcome message of the airport.

Welcome to London Heathrow Airport!

Your name is retrieved from our json form database and displayed on the screen when you have logged in.

Welcome, Jack



The middle section is the current time, which you can refer to and better arrange your trip.

The number on the right 106 is the number of seconds you have left to operate. When the operation time returns to zero, the system will force you to return to the welcome page

The icon on the right is used to return to the welcome page.

You can cancel all your operations and return to the welcome page by clicking this button on any page before check-in is completed.

#### \*For system administrator (airport stuff) only

On any screen, press ALT + to call out the console.

```
To resume checking-in, enter "resumo"
```

Since our system doesn't have a regular exit button, which is how the entire program should exit, enter "resumo" in the console to close the console and continue running the program, and "exeo" to exit the system.





#### At the left part of the screen

This component shows the entire check-in process, with the blue icon indicating the check-in phase you are currently in.

#### At the bottom of the screen



Left icon is used to return to the front page. (Because of the logical design, on some pages you will not be allowed to return to the previous page, so the icon will not appear. Instead, you can use this icon to return to the welcome screen)

# 2.3 Welcome page

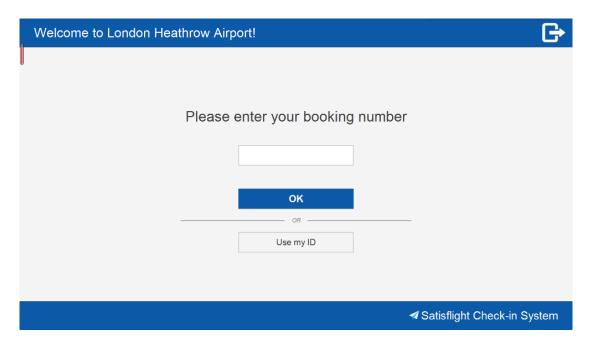




This is a default "lock screen" page simply displayed the welcome message of the airport and the current time. Click anywhere to unlock the screen and go to next page.

# 2.4 Login

# 2.4.1 Login with booking number

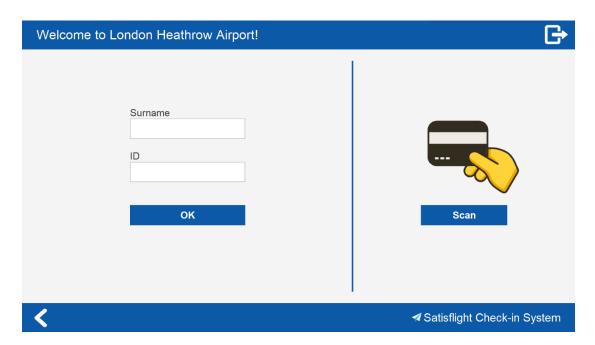


At this page, you can enter your booking number and press "OK" button to login. If you don't remember the booking number, you can press "Use my ID" to login with ID number or ID card.

# 2.4.2 Login with name and ID number or login with ID card

The button "Use my ID" will lead to following page.





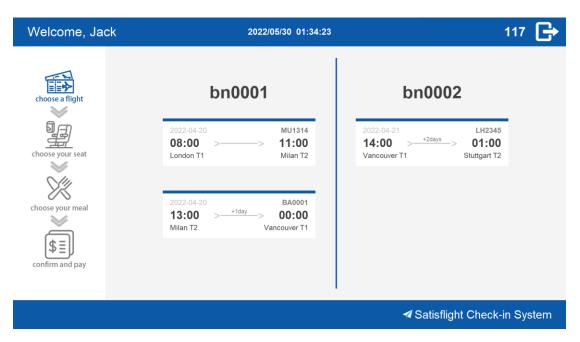
You can enter your surname and ID number at the left part to log in.

Or you can log in by placing your ID card in the identification area and clicking the "Scan" button to read the identity information. (Details of using USB drive as ID card is at **External Equipment as Authentication** in 2.1.3 Hints)

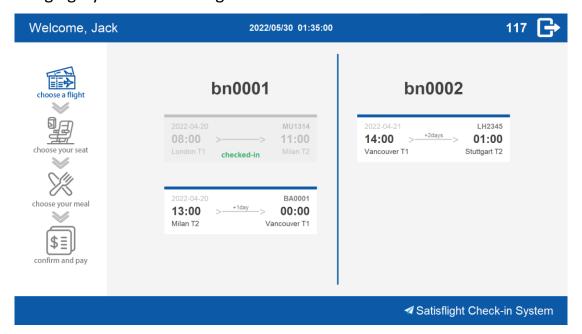
# 2.5 Choose a flight

After you log in successfully, the system will retrieve the flight information bound with your identity information and display it on the page. You need to click the flight card that you want to check in for further operations.



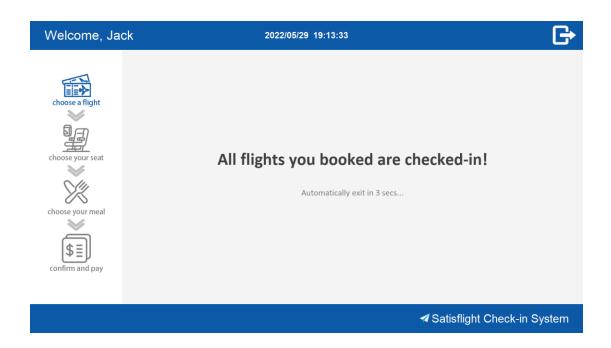


If certain flights have already checked in, their flight information cards will go grey and can no longer be clicked.



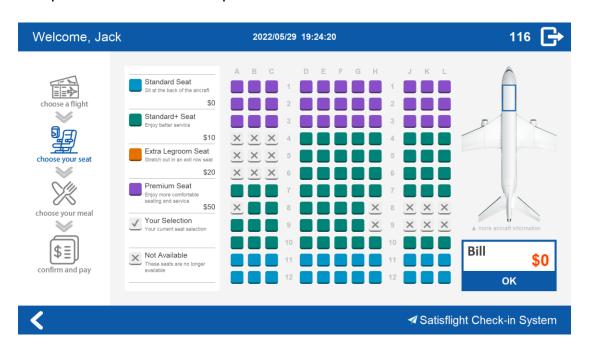
In particular, if all the flights you booked have been checked in, the flight selection screen will prompt you and automatically return to the welcome page after three seconds.





# 2.6 Choose your seat

After you have selected a flight, you need to select a seat. Seat details and prices are in the description bar on the left.



Drag the slider on the aircraft icon on the right to select seats in different areas.





At the same time, you can click the button rianlge ria



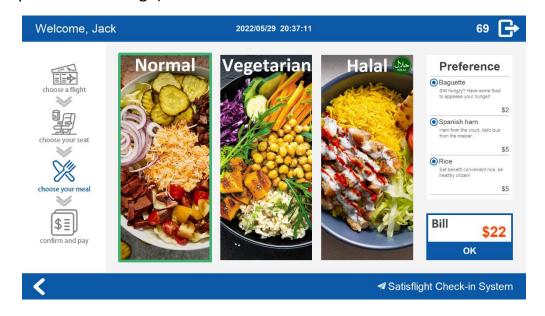
# 2.7 Choose your meal

After making your seat selection, you need to make meal selection. You have to choose one of the three main meals, and you can also choose an extra meal from the menu on the right for an extra fee.





It should be noted that the bill in the lower right corner includes the extra charge for previous seat selection (if you have chosen a seat that requires extra charge)



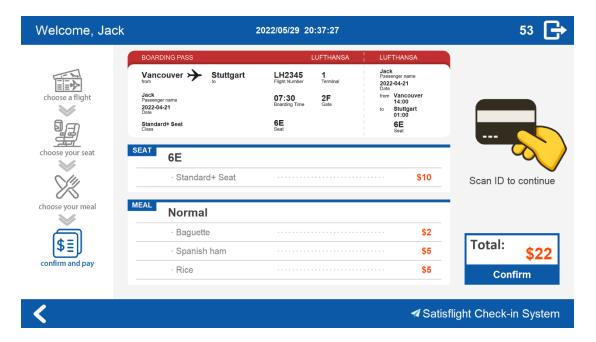
# 2.8 Confirm and pay

#### 2.8.1 Confirm

After clicking the "OK" button on the Meal selection page, you will be brought to the confirmation page. The picture of your boarding pass at



the top shows all the information about your check-in, and the bill below shows details of any additional charges you may have incurred during the check-in process.

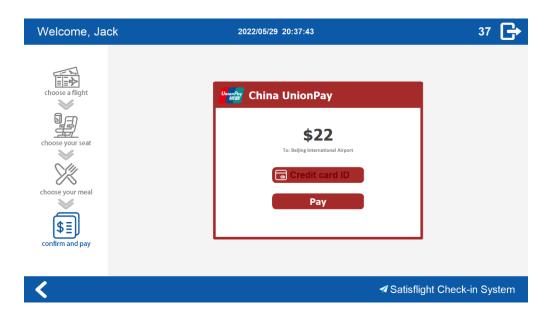


After confirming the information, you need to place your ID card in the identification area and click the "confirm" button. If there is an extra charge on your bill, i.e., the bill is not 0, you will go to the pay page. If you do not select any additional items, you will go directly to the final page.

# 2.8.2 Pay

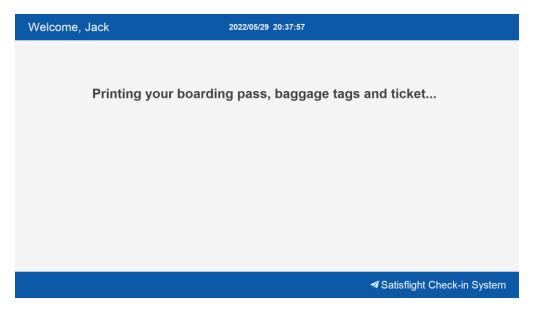
Input your credit card number and click "pay", the bank will confirm the bill, after payment confirmation, you will go to the final page.





# 2.9 Final page

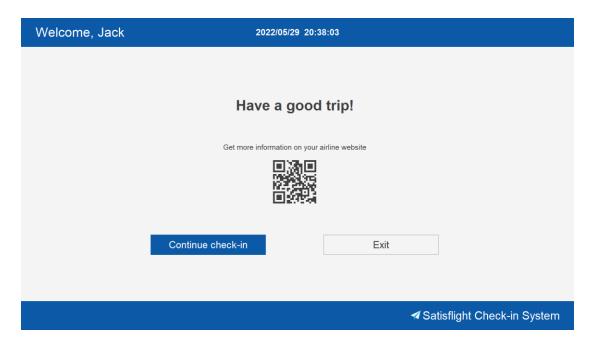
It will take a few seconds to print the boarding pass, ticket, and baggage tag when final page is entered.



When the printing is complete, a QR code will pop up. Scanning the QR code takes you to the website of your airline for more information. From this screen, you can choose to click "Continue check-in" to return to the flight selection screen for other flights or click "Exit" to return to the



welcome page.



# 2.10 Get boarding pass and ticket

Open the folder "printer-output" and you will get your boarding pass, ticket and baggage tags.







Mr / Ms
Jack
Flight ID
LH2345
Airline
LUFTHANSA
Departure
Vancouver T1
Arrival
Stuttgart T2

# **III. Configurations**

#### \*For system administrator (airport stuff) only

One of the key features of Satisflight Oriental is its highly definable configuration files, which allow the system to be used in a wide range of locations with only a few parameter changes. This part explains that the system can meet the needs of different airports after simple configuration.

# 3.1 Set up

If you find you that you don't have a conf directory, config.yaml or theme.json, simply run the main program by using instructions in 2.1.2 and then you will have the conf directory and all configuration files.

Do follow the format provided by existing entries. In *Satisflight Oriental*, we added a property check for config files. If any property is incorrectly configured, the program will not start and will report a configuration error. In particular, if the theme is incorrectly formatted, the



program defaults to Cobalt and Onyx themes.

# 3.2 General settings

#### 3.2.1 Language

```
# Supported language: English, Chinese (partial)
language: English
```

You can define the language of the system by editing this property. For Satisflight Oriental, multilingual support is not perfect, but it is reserved in the config file for later iterations.

#### 3.2.2 ID card drive

```
# USB drive that holds ID document
# Recommended: E://, F://, G:// (Windows); /volumes/DRIVE NAME/ (Mac OS)
idCardDrive: G://
```

The default drive name is "F", but you can choose whatever you like by editing the configuration file. A sample passenger ID document file is provided as ID info.json under the software's home directory, alongside JAR files. Copy them into your USB flash disk, or manually view the database and use other identification.

# 3.3 Airport settings

### 3.3.1 Airport name

```
# You can set the airport name here
airportName: London Heathrow Airport
```



This property determines the name of the airport that appears in places including the welcome message.

Also, the cover image at the welcome page can be replaced by updating a new cover.jpg file with 19:6 1920\*1080 standard.

# 3.3.2 Check-in Leading time function

```
# Enable/disable the check-in leading time function
enableCheckInLeadingTime: false
# Check-in starts ... (hours) before departure
startCheckInLeadingTime: 24
# Check-in stops ... (minutes) before departure
stopCheckInLeadingTime: 30
```

The feature allows check-in only for flights that depart within the next 24 hours and are more than 30 minutes from now. You can enable or disable this function. Also, you can modify the start check-in leading time and stop check-in leading time.

# 3.4 Timer settings

#### 3.4.1 Check-in timer

```
# Enable/disable check-in timer
checkinTimer: true
# Set the limit time (seconds) for check-in timer
checkinTimeLimit: 120
```

These properties determines if the global timer, which is the countdown number in the upper right corner is activated. You can also set the limit time for the timer.



#### 3.4.2 Idle timer

```
# Enable/disable idle timer
idleTimer: true
```

Idle timer is widely used in all auto-exit functions. Enable or disable the idle timer is equivalent to enable or disable auto-exit functions.

# 3.5 Printer settings

```
# Enable/disable image output for printer.
imagePrinter: true
```

We set 2 forms of printer outputs, the image version has already been shown in 2.10 Get boarding pass and ticket. And the txt form is as follows:









# 3.6 Appearance settings

#### 3.6.1 Theme

```
# Select a theme from the theme library theme: Cobalt
```

Satisflight Oriental comes with 8 built-in theme colors. You can modify the theme parameters or add new themes in theme.json.

#### 3.6.2 Dark mode

```
# Select the dark theme from the theme library
darkTheme: Onyx
# Enable/disable auto dark theme
enableAutoDarkTheme: false
```

First, you need to select a theme color for the night mode. After that, if you choose to enable automatic night mode switch, the system will automatically switch to night theme color at 7pm and regular theme color at 5am.

### 3.6.3 Animation speed

```
# Animation speed (1-5, -1 to disable), default: 3
animationSpeed: 3
```

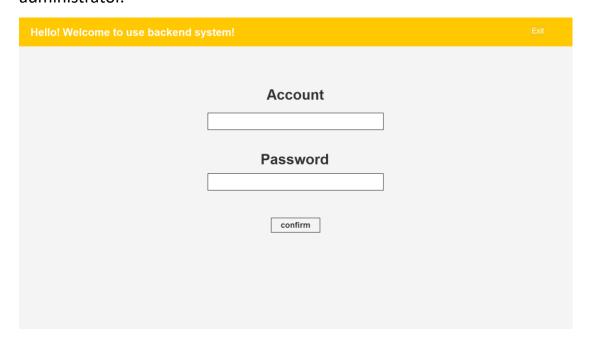
We set up smooth animation for various operations. You can adjust the speed of animation by adjusting this property, from 1 to 5 to slow to fast, and -1 to disable animation.



# IV. Backend system instructions

# 4.1 Administrator Login

This is a simple login page, by checking information in the backend\_administrator.csv in the folder database, you can log in as an administrator.

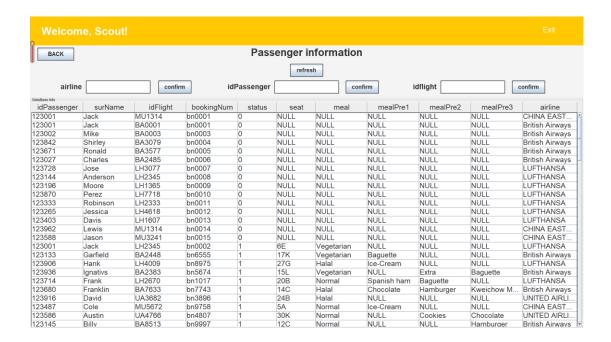


# 4.2 Information retrieval

This page displays the back stage data of all passengers, the back-end system provide 3 ways to retrieve data.

The logic of data arrangement is that unchecked passengers (status 0) will be shown first, and after the passenger has checked in, he/she will be placed at the top of the list of checked in passengers

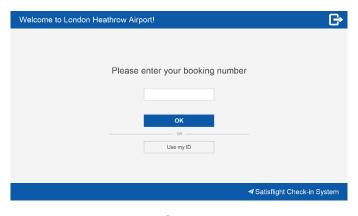




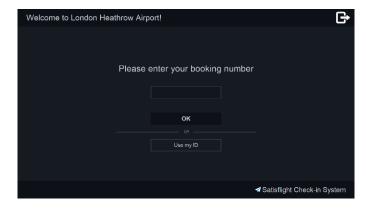
# V. Appendix

# 5.1 Theme Display

#### Cobalt

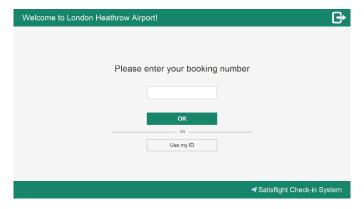


Onyx

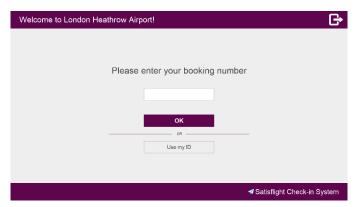




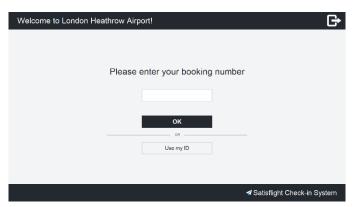
#### Jungle



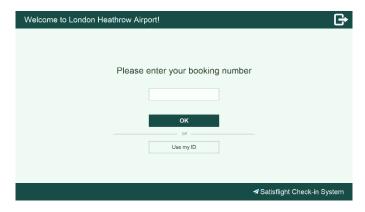
#### **Tyrian**



#### **Platinum**

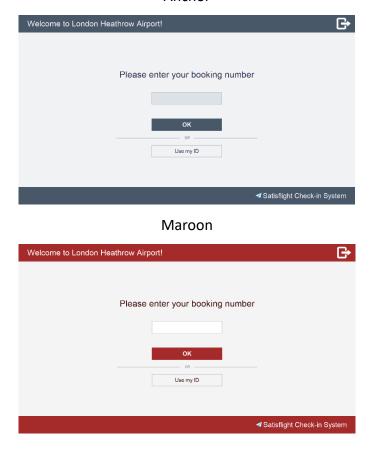


Tiber





#### Anchor



# 5.2 Easter eggs

# ✓ Satisflight Check-in System

Click the SatisFlight icon five times quickly and an Easter egg pops up with information about the development team

