



User Manual For Smart Kiosk

Group: 68

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1. Introduction

The software for this kiosks which enable passengers to check in, select seats, choose a meal plan and receive their boarding passes can be adopted by airlines operating in the airport.

2. Before Running

Set up the JDK (Java Development Kit) 16 or 17 as its runtime.

Follow the instructions in readme to compile and run the main program.

3. Main System

3.1 Welcome Page

- (1) Run Start to get the interface shown in Figure 3.1.
- (2) After running successfully, click the “start” button to enter the Check-In interface.

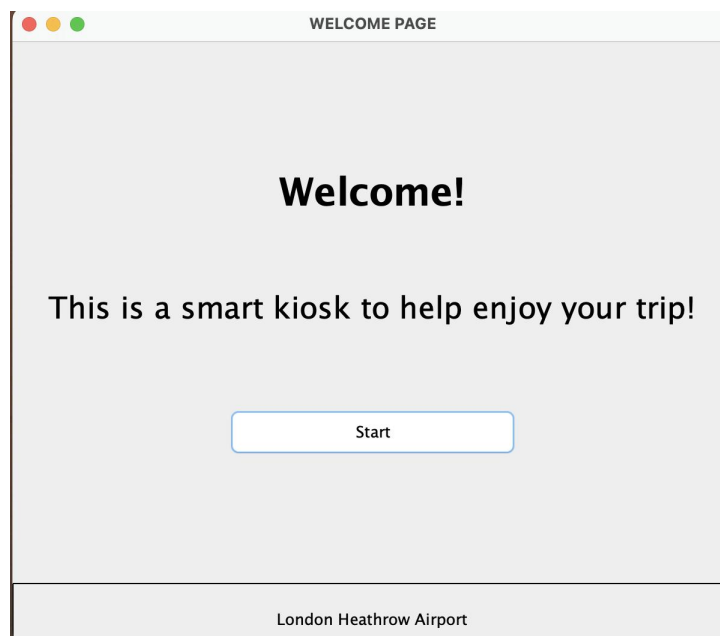
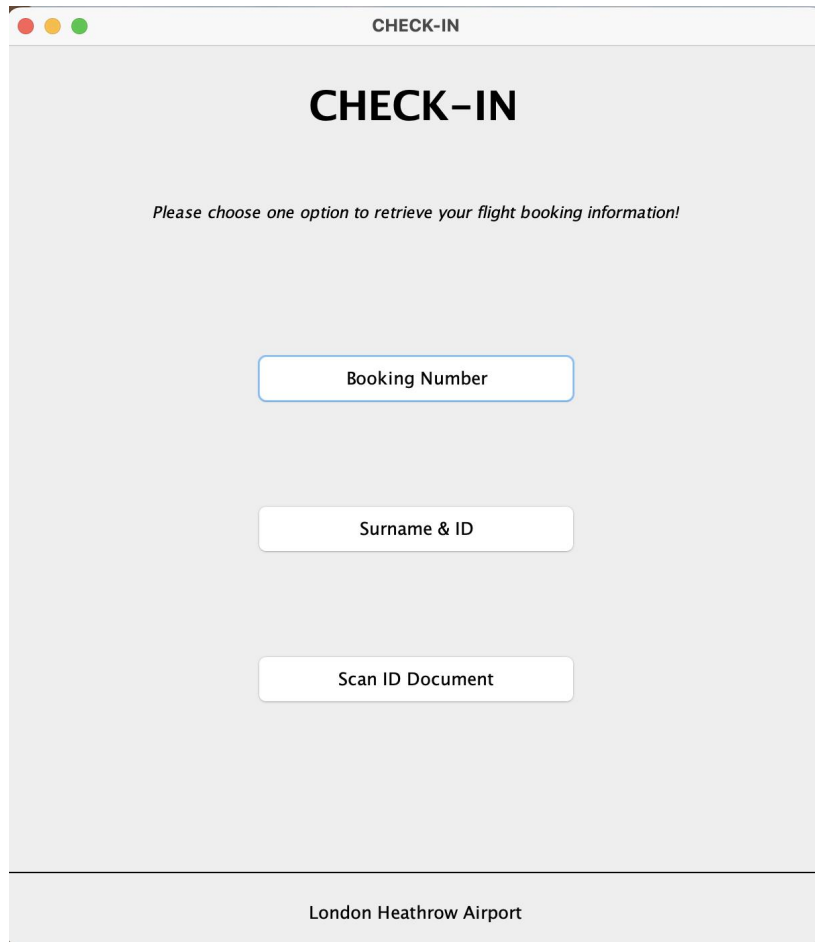


Figure 3.1: Welcome page

3.2 Check-In

- (1) You can choose your login way in Figure 1.2.1.
- (2) If you want to login by bookingid, you can click “Booking Number” and go to the page in Figure 3.3.
- (3) If you want to login by surname, you can click “Surname & ID” and go to the page in Figure 3.4.
- (4) If you want to login by scan ID document, you can click “Scan ID Document” and go to the page in Figure 3.5.

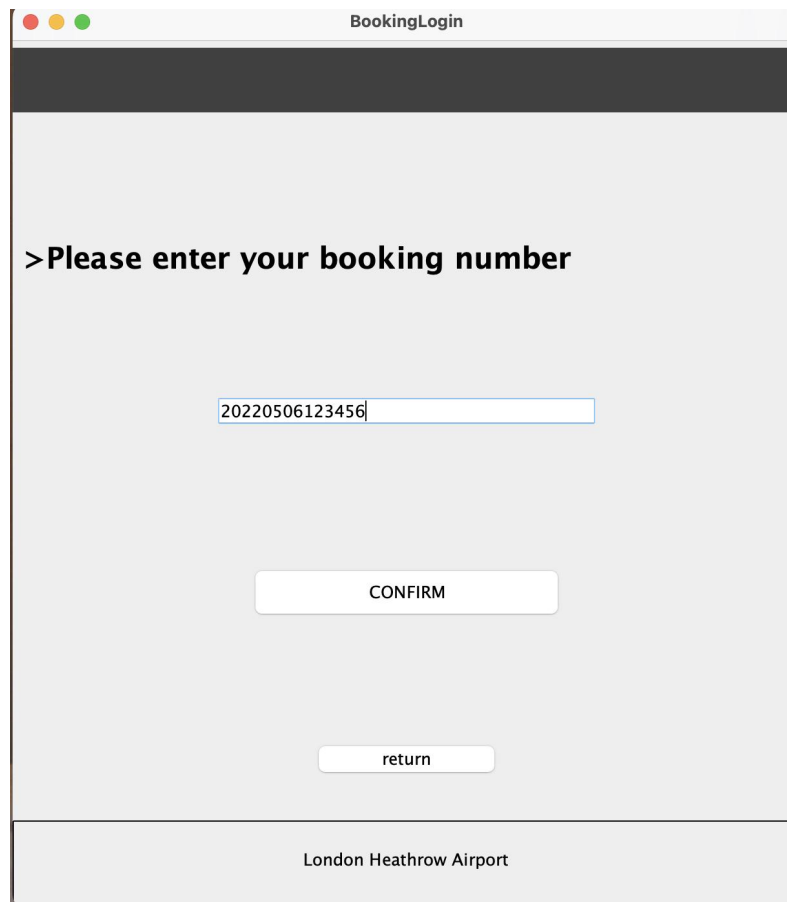


The image shows a web application window titled "CHECK-IN". The main heading is "CHECK-IN" in large, bold, black letters. Below the heading is a subheading: "Please choose one option to retrieve your flight booking information!". There are three buttons arranged vertically in the center: "Booking Number", "Surname & ID", and "Scan ID Document". At the bottom of the window, there is a footer that reads "London Heathrow Airport". The window has a standard macOS-style title bar with red, yellow, and green buttons on the left.

Figure 3.2: Check-In page

3.3 Bookingid Login Page

- (1) There is a text field for users to enter booking id (8 digits of date and 4 digits in random) in Figure 3.3.1.
- (2) After entering, click “confirm” button, if your information is correct then you went to the Booking Information page in Figure 3.6.
- (3) Click the “Return” button to return to the Check-In page.



BookingLogin

>Please enter your booking number

20220506123456

CONFIRM

return

London Heathrow Airport

Figure 3.3.1: Bookingid Login page

Notice: There will be a prompt popping out if your input format or input information go wrong in Figure 3.3.2 and Figure 3.3.3.

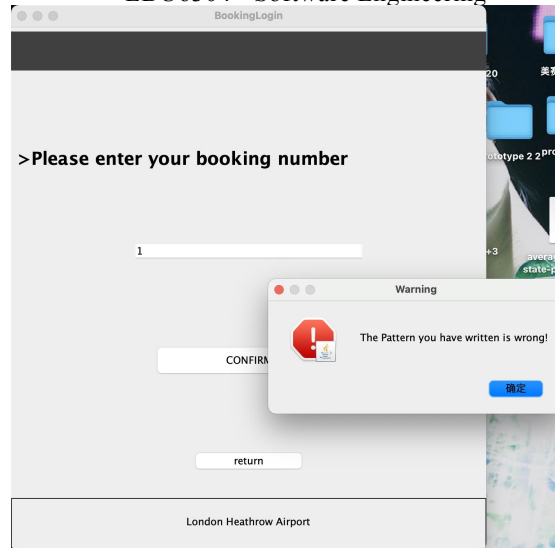


Figure 3.3.2: Pop out if input format go wrong

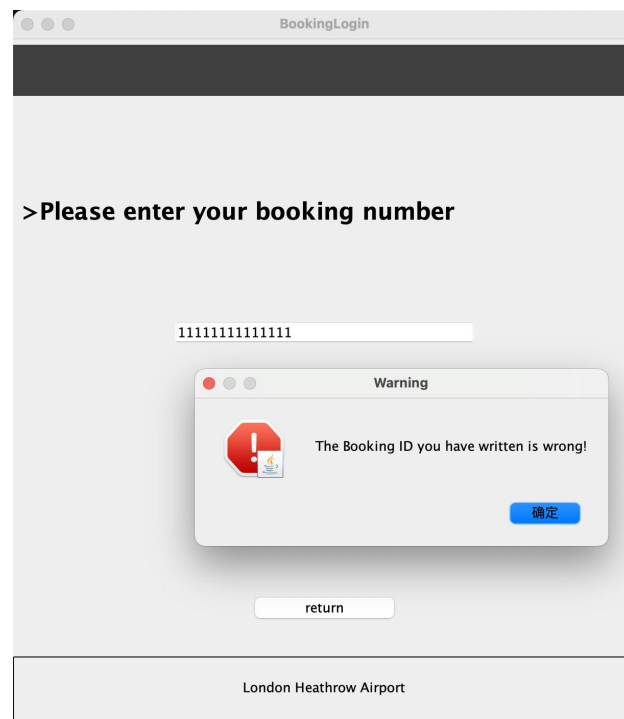
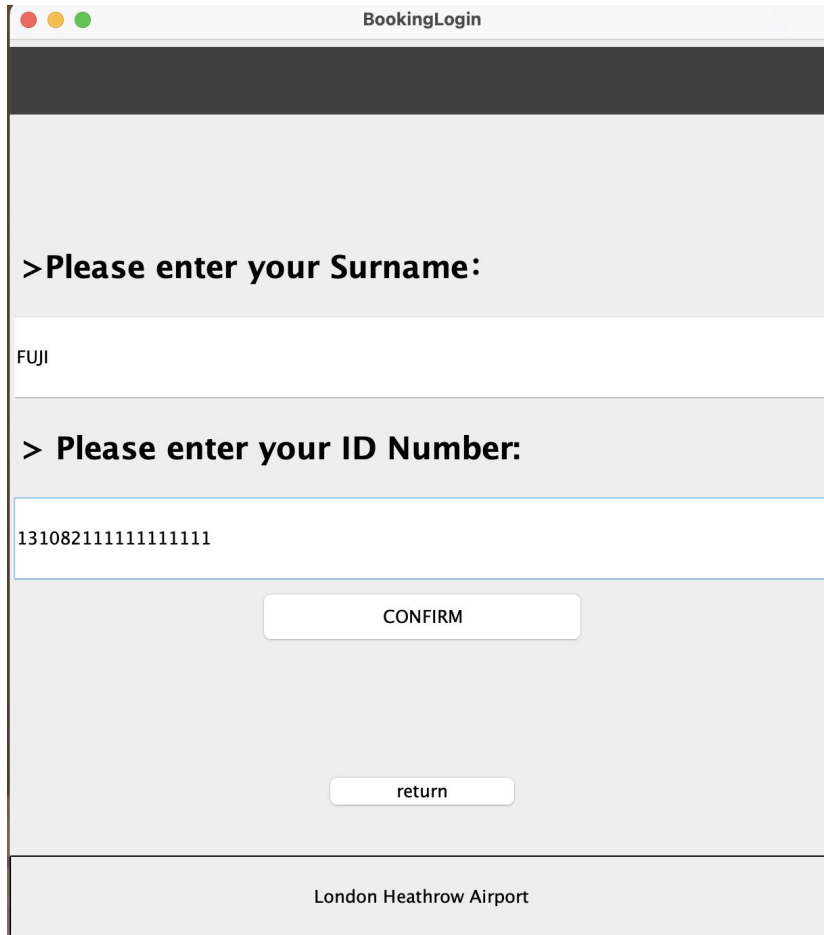


Figure 3.3.3: Pop out if input information go wrong

3.4 Surname Login Page

- (1) There is a text field for users to enter surname(capital letters) and ID number (18 digits in random) in Figure 3.4.1.
- (2) After entering, click “confirm” button, if your information is correct then you went to the Booking Information page in Figure 3.6.
- (3) Or click the “Return” button to return to the Check-In page.



The screenshot shows a web application window titled "BookingLogin". The interface has a light gray background. At the top, there is a dark gray header bar. Below the header, the text ">Please enter your Surname:" is displayed in bold. Underneath this prompt is a text input field containing the text "FUJI". Below the surname input field, the text "> Please enter your ID Number:" is displayed in bold. Underneath this prompt is a text input field containing the text "131082111111111111". Below the ID number input field, there are two buttons: a "CONFIRM" button and a "return" button. At the bottom of the page, the text "London Heathrow Airport" is displayed.

Figure 3.4.1: Surname Login Page

Notice: There will be a prompt popping out if your input format or input information go wrong in Figure 3.4.2 and Figure 3.4.3.

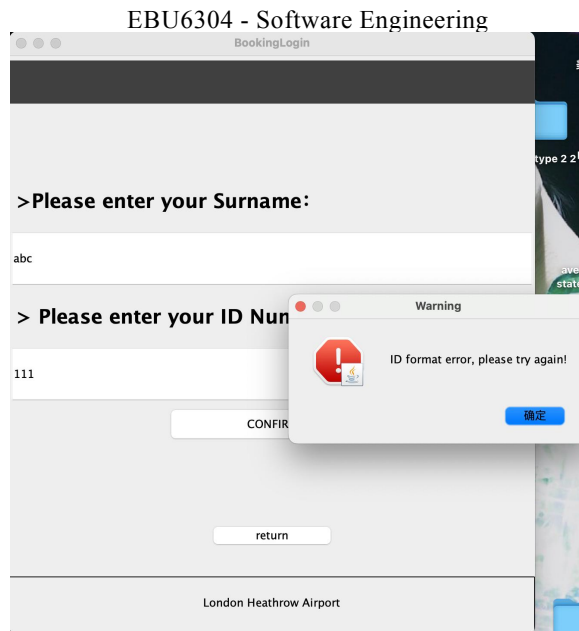


Figure 3.4.2: Input forma go wrong

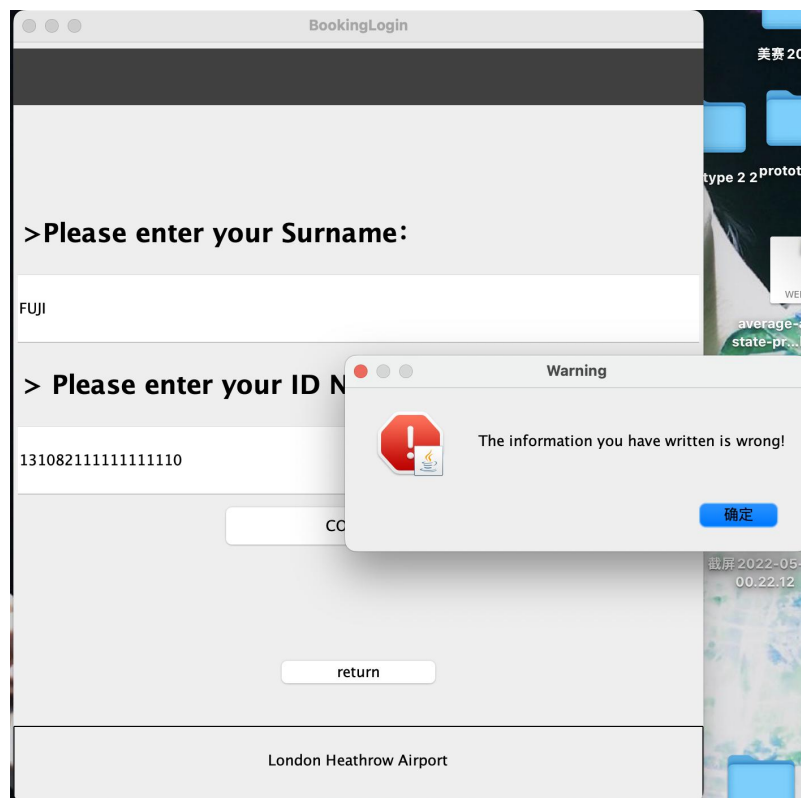


Figure 3.4.3: Input information go wrong

3.5 Scan Login Page

- (1) Scan your ID document(we use enter booking id to replace scanning) in Figure 3.5.1.
- (2) After scanning, click “confirm” button, if your information is correct then you went to the Booking Information page in Figure 3.6.
- (3) Or click the “Return” button to return to the Check-In page.

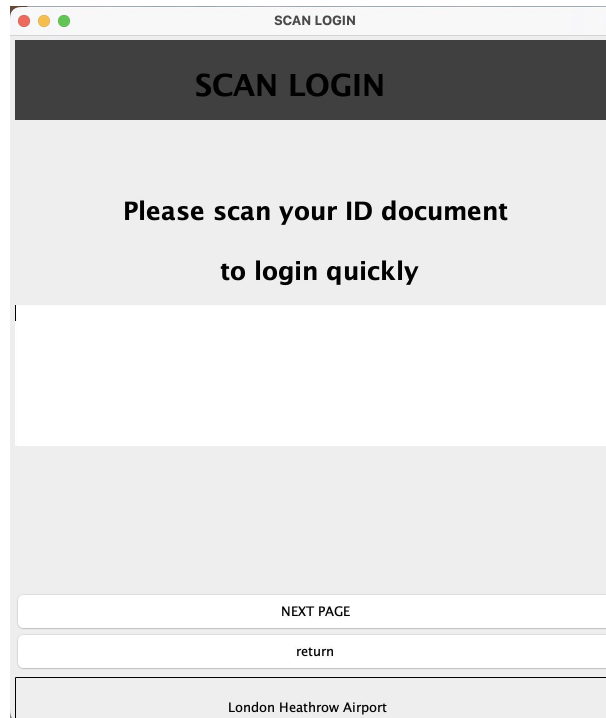


Figure 3.5.1: Scan Login Page

Notice: There will be a prompt popping out if your scan information has something wrong in Figure 3.5.2.

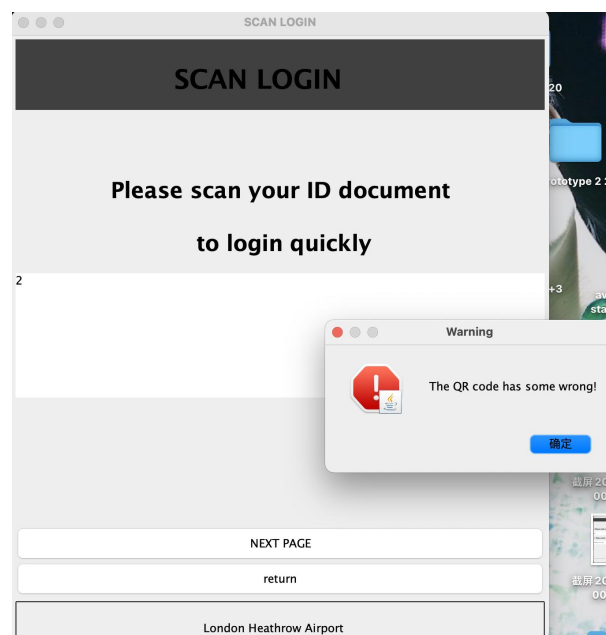


Figure 3.5.2: Scanning information go wrong

3.6 Booking information

- (1) This is a page about all information of your booking flight in Figure 3.6.
- (2) Click “Next page” button, after confirming your flight.
- (3) Or click the “Return” button to back to the Check-In page.

BookingInfo

BOOKING INFORMATION

Departure	Destination	
Beijing	ShangHai	
Departure time	Duration	Landing time
2022-4-20 19:56	120	2022-4-20 22:56
Gate No.	Airline	Aircraft type
B1	XXX	large

Next page

return

London Heathrow Airport

Figure 3.6: Booking informaion show page

3.7 Safety Instruction Page

- (1) There will be a pop-up with safety instruction od check-in in Figure 3.7.1
- (2) Click “Ensure” button after reading, then go to the Safety Instruction Page in 3.7.2.

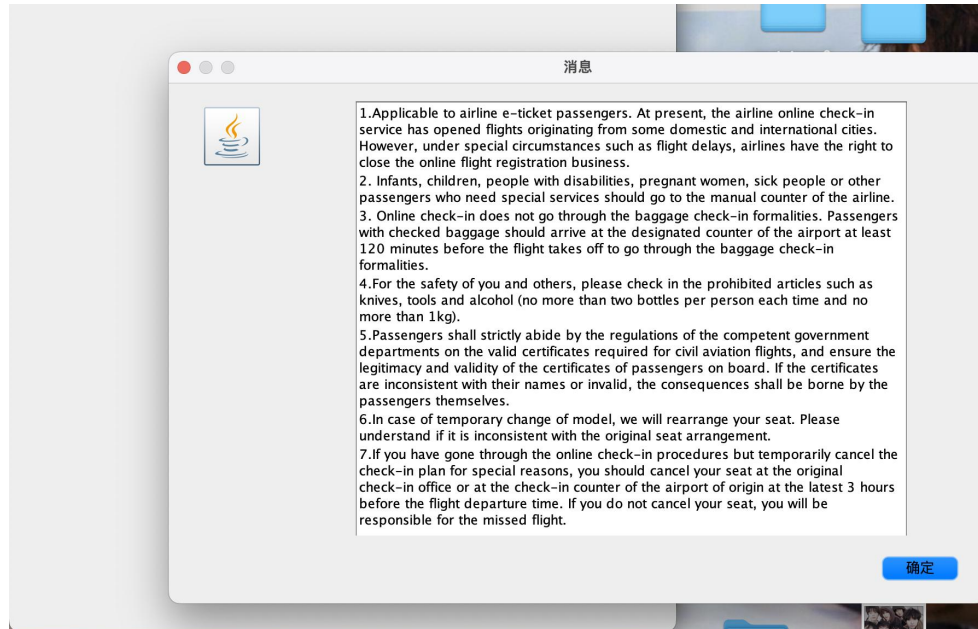


Figure 3.7.1: Pop-up notification

- (3) Click the “NEXT PAGE” button, go to select page in Figure 3.8.1.
- (4) Or click the “Return” button to return to the booking information page.

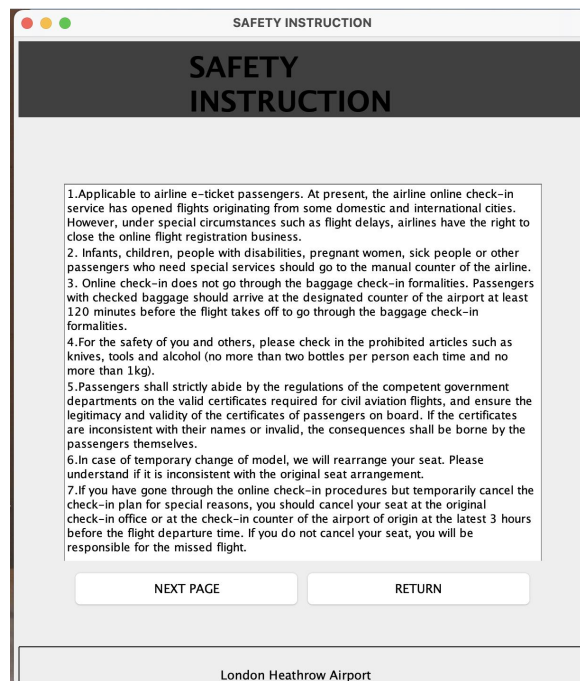


Figure 3.7.2: Safety Instruction of check-in

3.8 Seat Select Page

- (1) Select the seat you want in Figure 3.8.1 (01seat offers lager legroom but need extra money).
- (2) Click “NEXT PAGE” button after selecting, then a prompt popping out to make your choice sure in Figure 3.8.2. Click the “Y” button to continue.
- (3) Or click the “GO BACK” button to return to the booking information page.

Notice: The seat in grey has been selected.

The screenshot shows a window titled "SEAT SELECT" with a dark header bar containing the text "SEAT SELECTION". Below the header, there is a grid of seats arranged in three rows (01, 02, 03) and five columns (A, B, C, J, K). Each seat is represented by a radio button. In row 01, seat B (radio button 2) is selected, indicated by a blue dot. All other radio buttons are unselected. Below the grid, there are two lines of text: "-There is extra legroom in 01 seat." and "-You can only choose the seats in black." At the bottom of the window, there are two buttons: "NEXT PAGE" and "GO BACK". The footer of the window displays "London Heathrow Airport".

Figure 3.8.1: Select seat in black

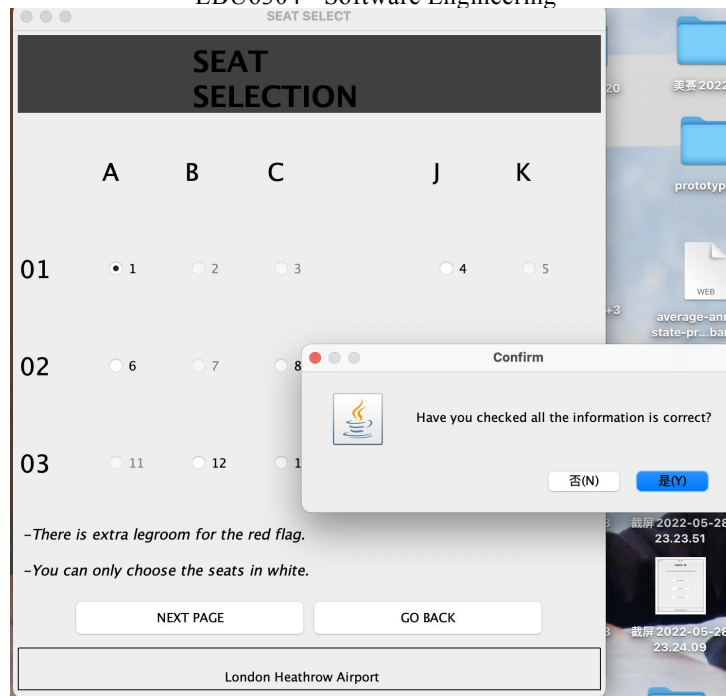


Figure 3.8.2: Select confirming

Notice: There will be a prompt popping out if you don't select.

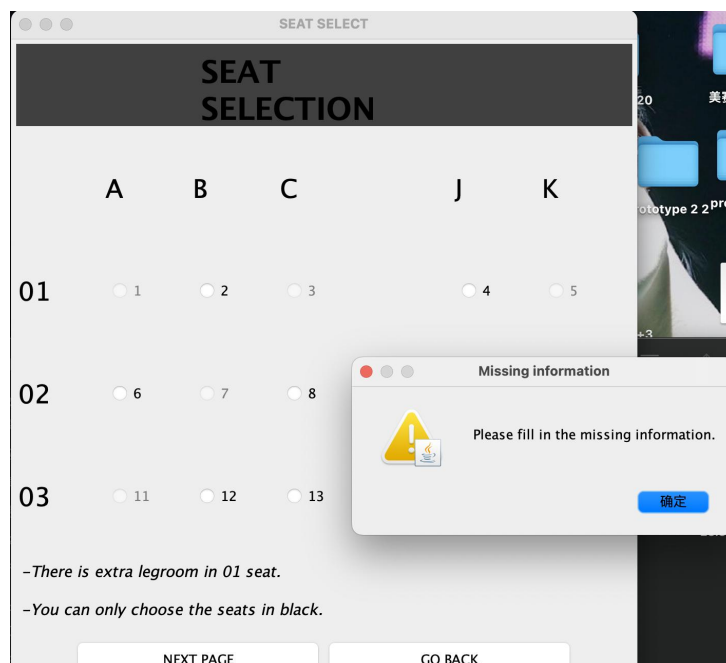


Figure 3.8.3: Remind to select

3.9 Meal Select Page

- (1) Select the meal type you want in Figure 3.9.1 (Special type offers a greater meal but need extra money).
- (2) Click “NEXT PAGE” button after selecting, then a prompt popping out to make your choice sure in Figure 3.9.2. Click the “Y” button to continue.
- (3) Or click the “GO BACK” button to return to the booking information page.

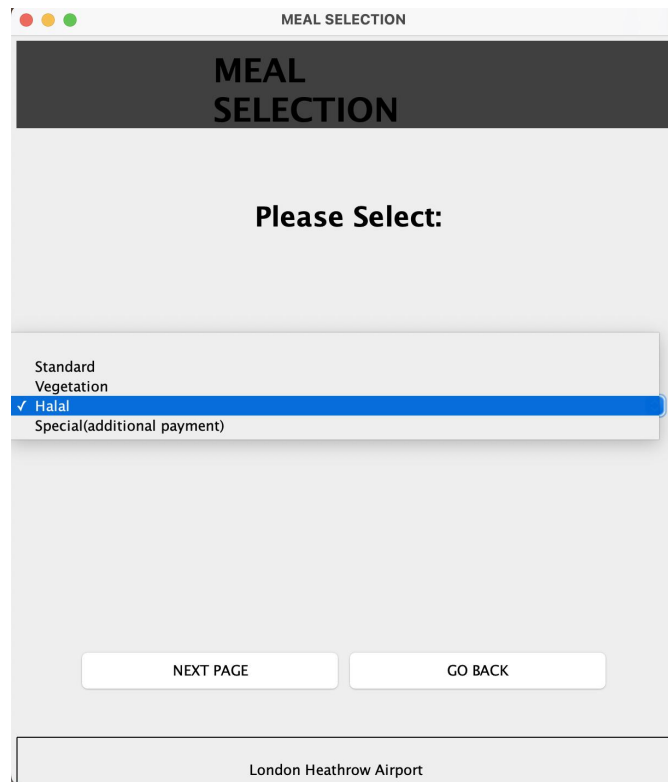


Figure 3.9.1: Meal Select page

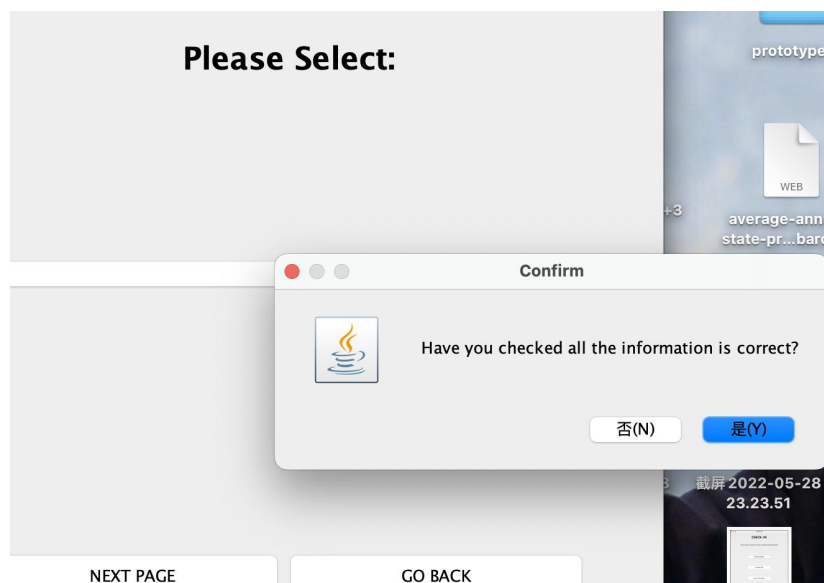
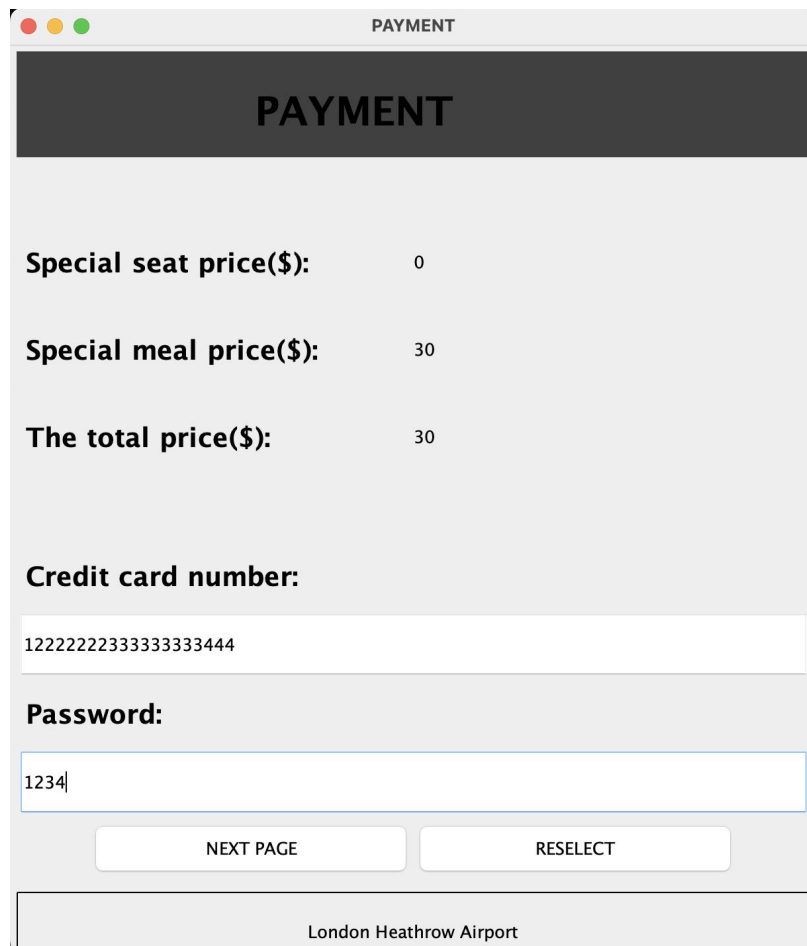


Figure 3.9.2: Meal select confirm

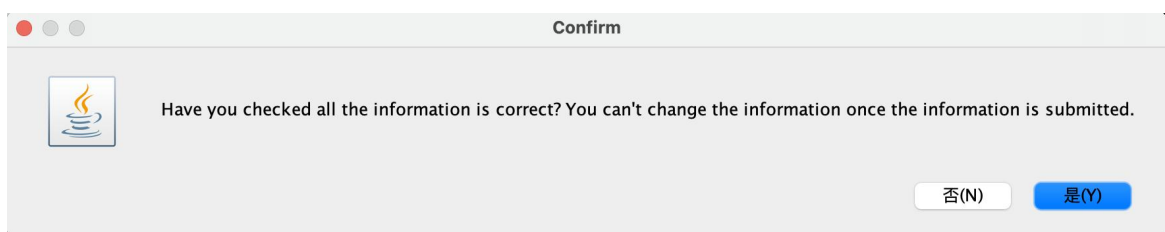
3.10 Payment Page

- (1) Show you the extra price of seat and meal in Figure 3.10.1.
- (2) Enter your credit card number(19 digits) and password.
- (3) Click “NEXT PAGE” button after entering, then a prompt popping out to make sure your choice in Figure 3.10.2. Click the “Y” button to continue.
- (4) Or click the “RESELECT” button to reselect seat and meal type.



The screenshot shows a web application window titled "PAYMENT". Inside, there's a dark header with the word "PAYMENT" in white. Below the header, the page displays pricing information and input fields. The pricing section shows "Special seat price(\$): 0", "Special meal price(\$): 30", and "The total price(\$): 30". Below this, there's a "Credit card number:" label followed by a text input field containing "1222222233333333444". Underneath is a "Password:" label followed by a text input field containing "1234". At the bottom of the form area, there are two buttons: "NEXT PAGE" and "RESELECT". A footer bar at the very bottom of the window displays "London Heathrow Airport".

Figure 3.10.1: Payment page



The screenshot shows a small dialog box titled "Confirm". It features a small icon of a cup of coffee on the left. The main text reads: "Have you checked all the information is correct? You can't change the information once the information is submitted." At the bottom right, there are two buttons: "否(N)" (No) and "是(Y)" (Yes). The "是(Y)" button is highlighted in blue.

Figure 3.10.2: Pop-up for confirmation

Notice: There will be a prompt popping out to warn you if your card number or password entered isn't correct.

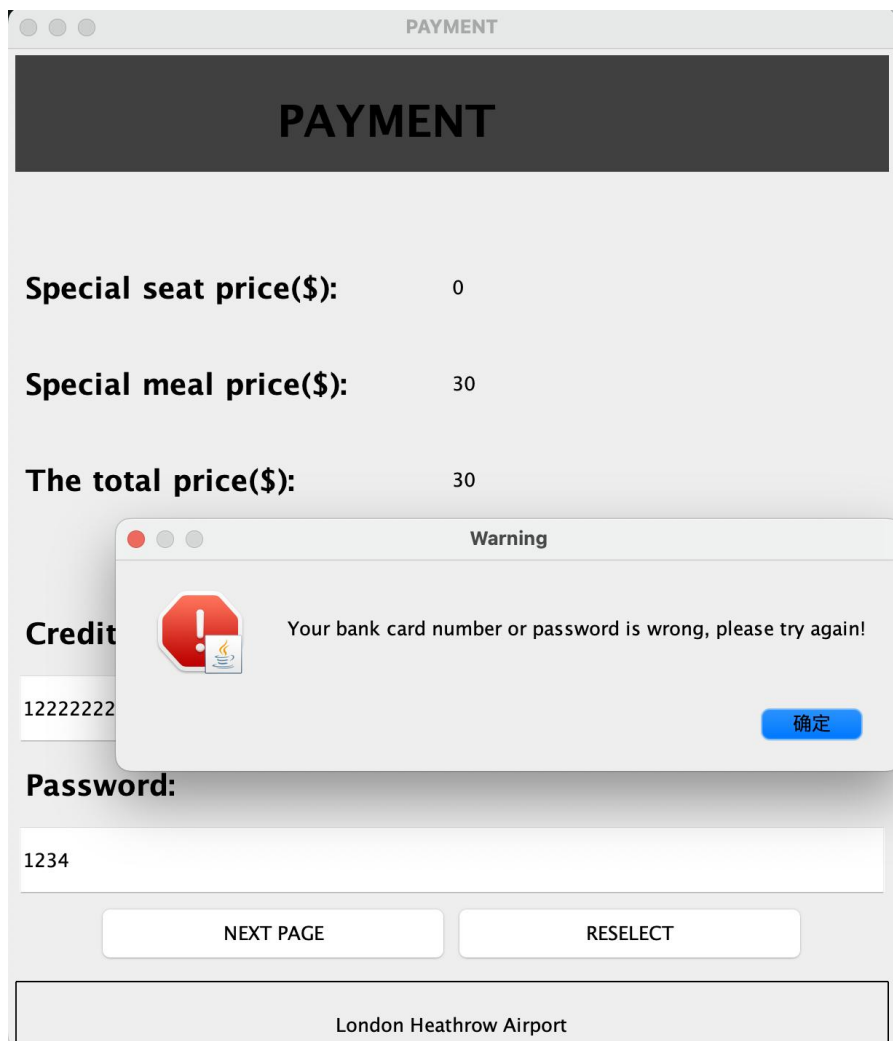


Figure 3.10.3: Pop-up for warning something wrong

3.11 Confirmation Page

- (1) Scan your ID document (we use enter booking id to replace scanning) in Figure 3.11.1.
- (2) Click “Confirm” to continue, then go to Printing Page.

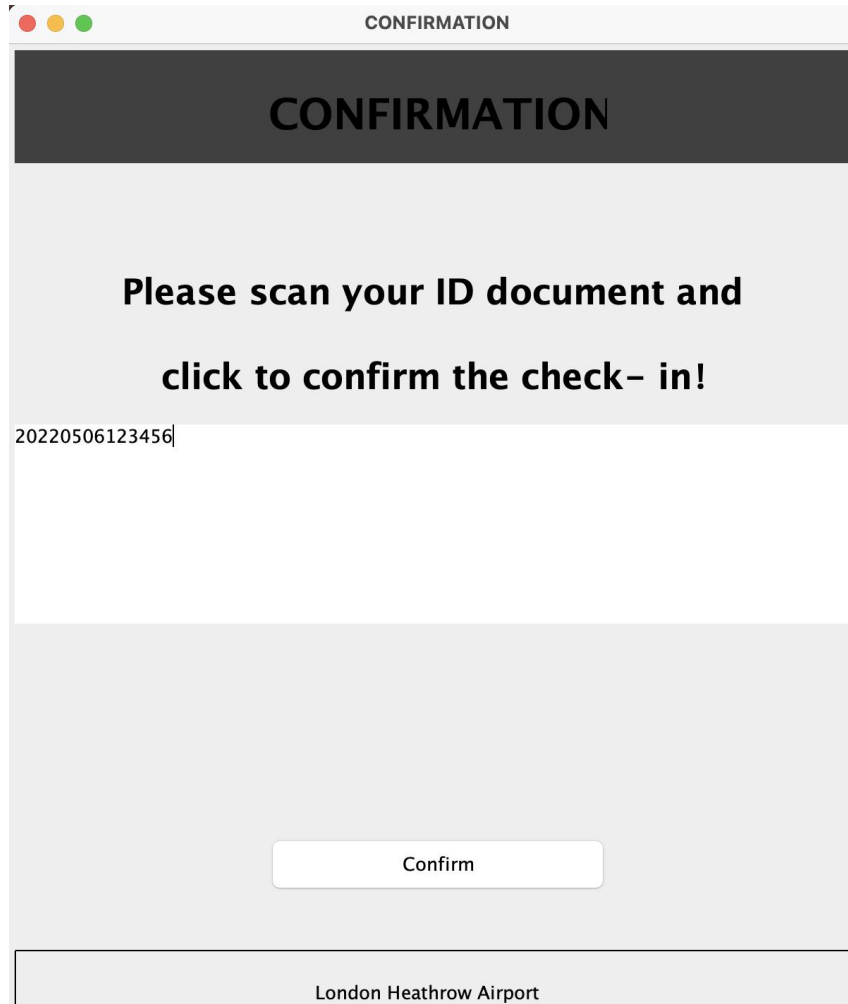


Figure 3.11.1: Confirmation page by scanning ID document

Notice: There will be a prompt popping out to warn you in Figure 2.11.2 if your QR code has some wrong.

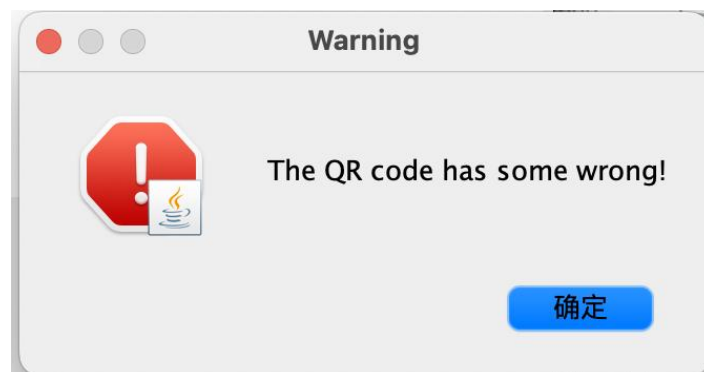


Figure 3.11.2: Pop-up for warning that QR code was wrong

3.12 Waiting for Pringting Page

- (1) Wait for pringring boarding pass, Baggage tag and baggage dropping number in Figure 3.12.1.
- (2) Click “NEXT PAGE”button.

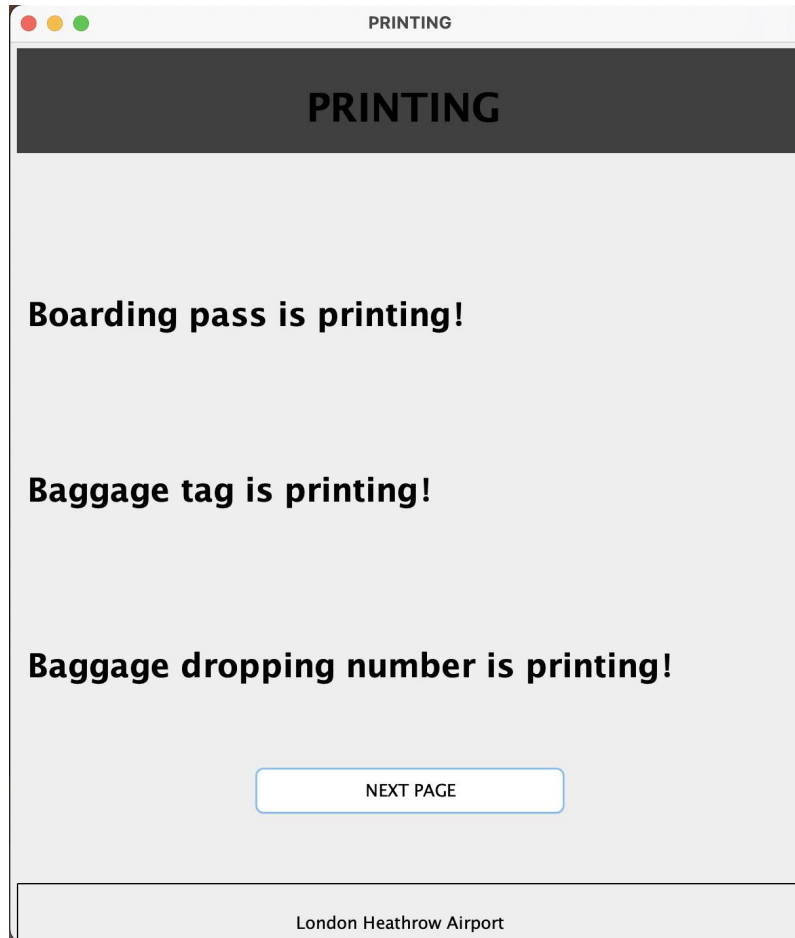


Figure 3.12.1:Waiting for Pringting Page

3.13 End Page

Click “Finish” in Figure 1.13.1.

The process is over.

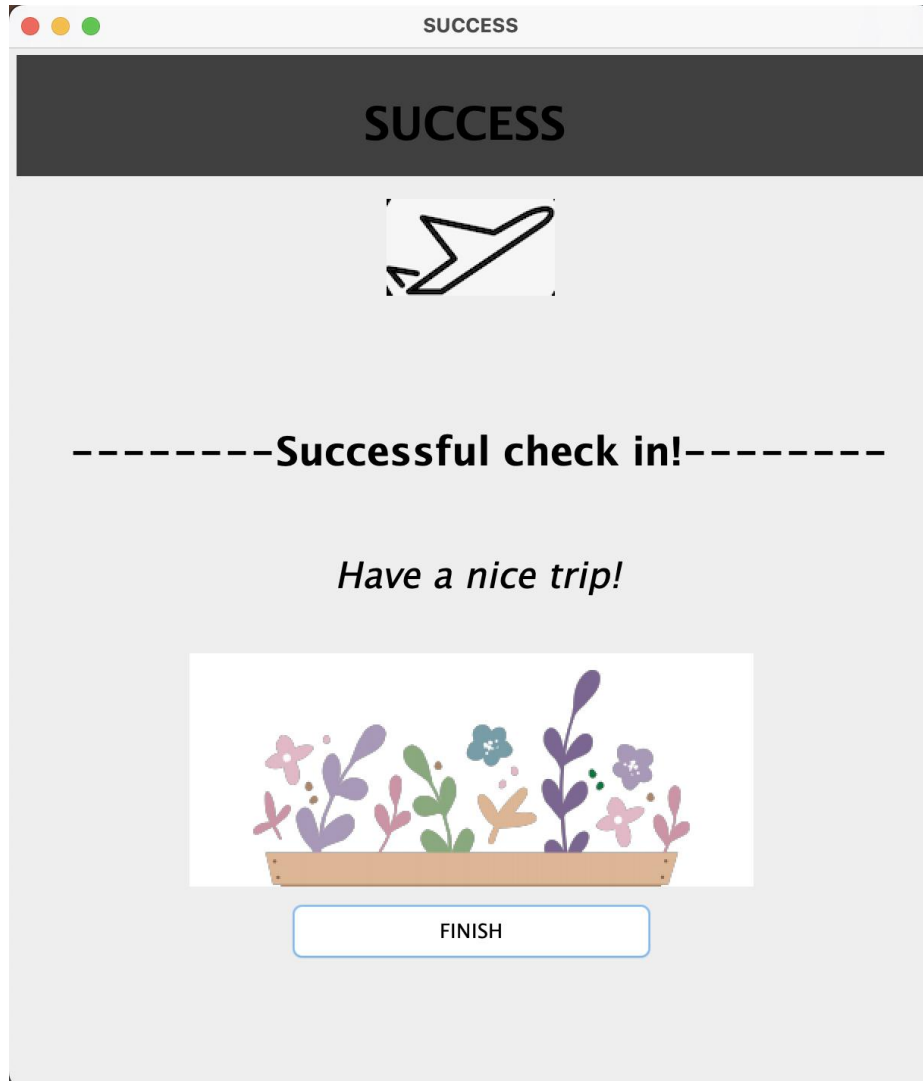


Figure 1.13.1: Stamps display page

4. The Back-end System

The back-end system to allow the airline staff to visualize, for each flight, the list of passengers, their check-in status, seat and meal type they chose, booking-id and phone number.

The screenshot shows an IDE with a project named 'prototype 2 3 [prototype]'. The code editor displays the `BookingIdListener.java` file, which implements the `ActionPerformed` method. The code includes a regular expression to validate the booking ID and a `PassengerWithFlight` object to store passenger information. The `ActionPerformed` method checks if the booking ID is valid and if a passenger with that ID exists. If both are true, it creates a new `BookingInfo` object and adds it to the `BookingInfo` list.

The bottom of the screenshot shows a table of passengers with the following data:

BookID	Surname	ID number	Phone	Status	Meal	Seat	Position
20220506123456	ABC	13108121111111111111	18331680796	false	Special(additional payment)	6	2
20220506123457	FUJI	13108211111111111111	18331690796	true	premium	business	3
20220506123458	ASD	13108211111111111112	18331690797	true	medium	first	5
20220506123446	WEF	13108121111111111116	18331680798	false	medium	business	7
20220506123447	GRD	13108211111111111178	18331690799	true	premium	business	11
20220506123448	ASC	13108211111111111119	18331690791	true	medium	first	15

Figure 1.13.1: The list of passengers

5. Compatibility and Troubleshooting

5.1 Compatibility

Operating system	Compatibility
Windows 10	GUI may change
Windows 8	GUI may change
OS X	Perfect compatibility

5.2 Troubleshooting

When the system is running, the corresponding configuration file support is required. General system problems are caused by configuration file errors. Once the system is not running, it is recommended that you download the latest version of the code, recompile it, and arrange the new configuration file.