

# User Manual



**FLY-AWAY AIRLINES**



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## Purpose of the Program

### Introduction

This program is designed to offer a simple and reliable method for airline workers to access the flight database and provide excellent service to their customers. With various search and filter options, as well as sorting capabilities, this program ensures a seamless booking experience.

### Features

#### Flexible searching and filtering

The program offers multiple ways to search and filter flights according to the customer's preferences. You can easily search for flights based on the departure and/or destination, or the flight date. From there, you can also apply a number of sorting criteria. These features allow you to quickly narrow down the available options and find the customers desired flights efficiently.

#### Easy booking and reservation management

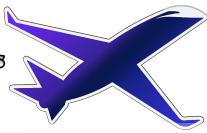
With our program, you have an easy way of booking seats for customers, cancelling their reservations, or updating their information in the reservation.

#### Exporting flight information

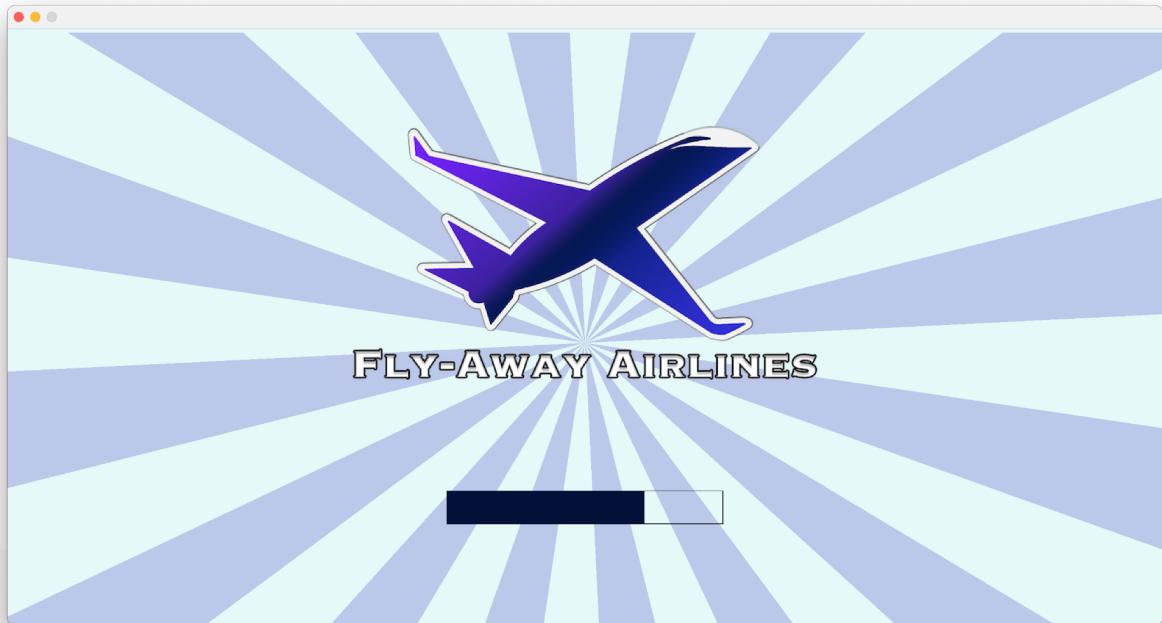
Also, our program provides a very useful feature of being able to quickly view, save, and print complete information about any flight. This includes the flight route, date, and time, as well as comprehensive details about every passenger booked on the flight. This information consists of their name, contact information, date of birth, and the price they paid for the seat.

### Conclusion

In conclusion, our program provides a way for airline workers to easily interact with the flight database and deliver exceptional service to the customers. With its diverse search and filter options, easy-to-use interface, booking, and reservation management capabilities, as well as easy access to complete flight information, this program is a strong solution for airline workers.



## Launching the Program



### How to launch the program

To launch the program, open the project folder and find a folder named “src” inside of it. As you open the “src” folder, you should see a file named Main.java there. This file, Main.java is the entry point for the program, and by launching it in your IDE, you would launch the program.

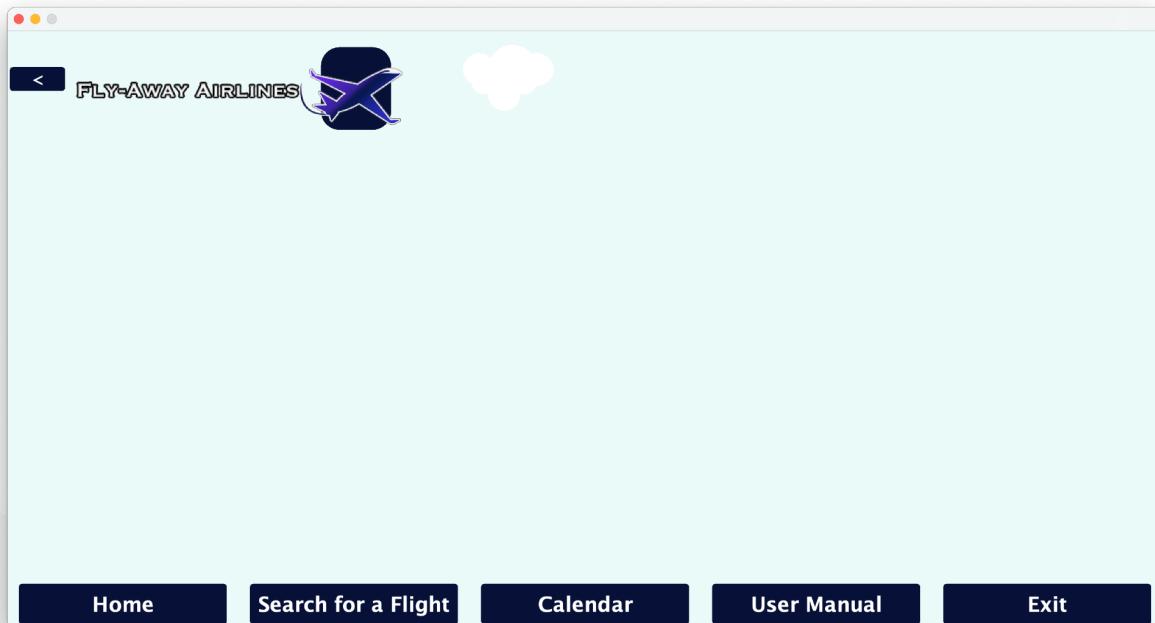
### The splash screen

Right after you launch the program, you are going to be greeted with a Splash screen. There, you will see the company logo and a loading bar indicating the loading progress. As soon as the program is finished loading, you are going to be brought to the Home screen.



FLY-AWAY AIRLINES

## Default Buttons



Throughout your usage of the program, you will encounter these buttons on nearly every screen you navigate. Regardless of the screen, these buttons function consistently.

### The direction buttons

By pressing the Home button, you will be directed to the home screen.

Pressing the Search for a Flight button will take you to the flight search screen.

By pressing the Calendar button, you will be directed to the calendar screen.

These three buttons alter their color to indicate when you are on the corresponding screen.

### User manual and exit

To access the user manual, click the User Manual button. The user manual would be opened as a PDF document.

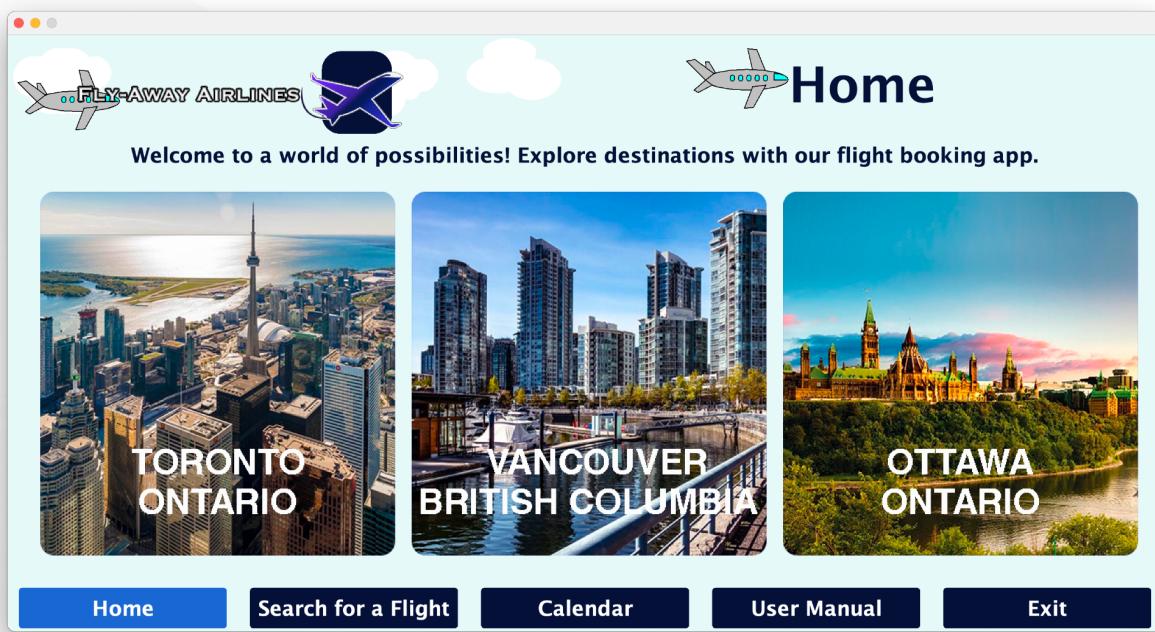
To exit the program entirely, click the Exit button and then confirm that you would like to quit the program on the confirmation pop-up.



## The Back button

Pressing the back button in the top left corner of your screen would return you to the previous screen you visited. Please note that this button may not be present on all screens, unlike the previous buttons.

## Home Screen

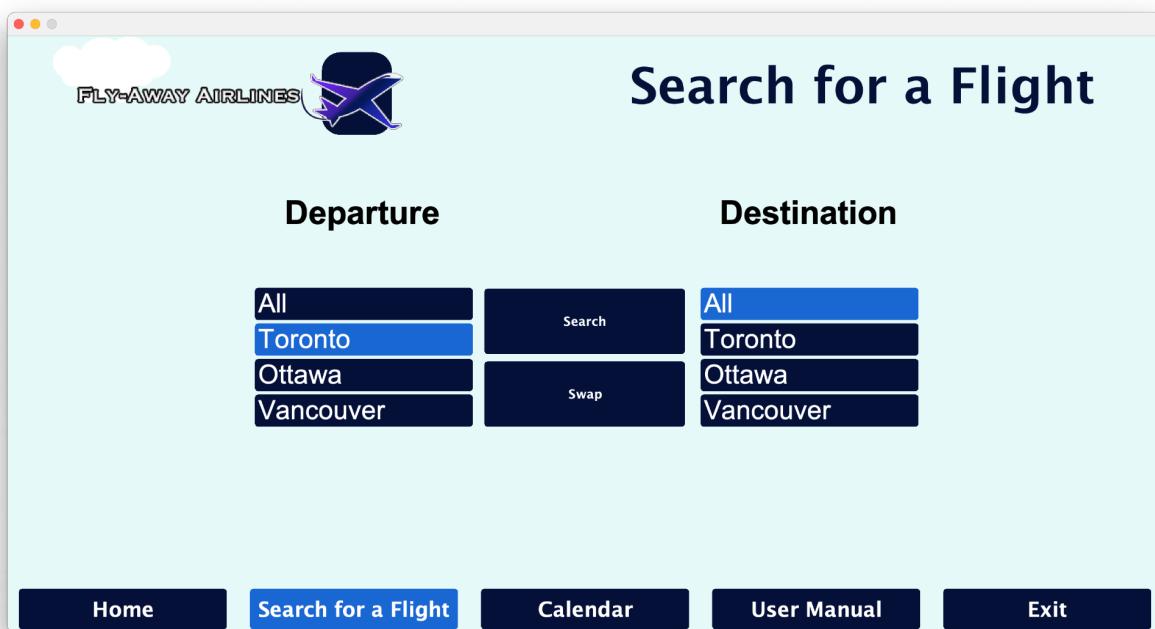


On the home screen, you will see a randomized greeting message, selected from a pool of messages. Each time you revisit the screen, the greeting message will be different. Additionally, you will see the company logo, images depicting the three destinations to which the

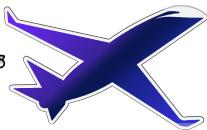


company organizes flights, and five buttons positioned at the bottom of the screen. For instructions on how these buttons operate, refer to the Default Buttons section. Please note that the home screen does not offer any additional features or functionality. To continue using the program, simply click either the Search for a Flight button or the Calendar button.

## Searching for a Flight by Departure and Destination

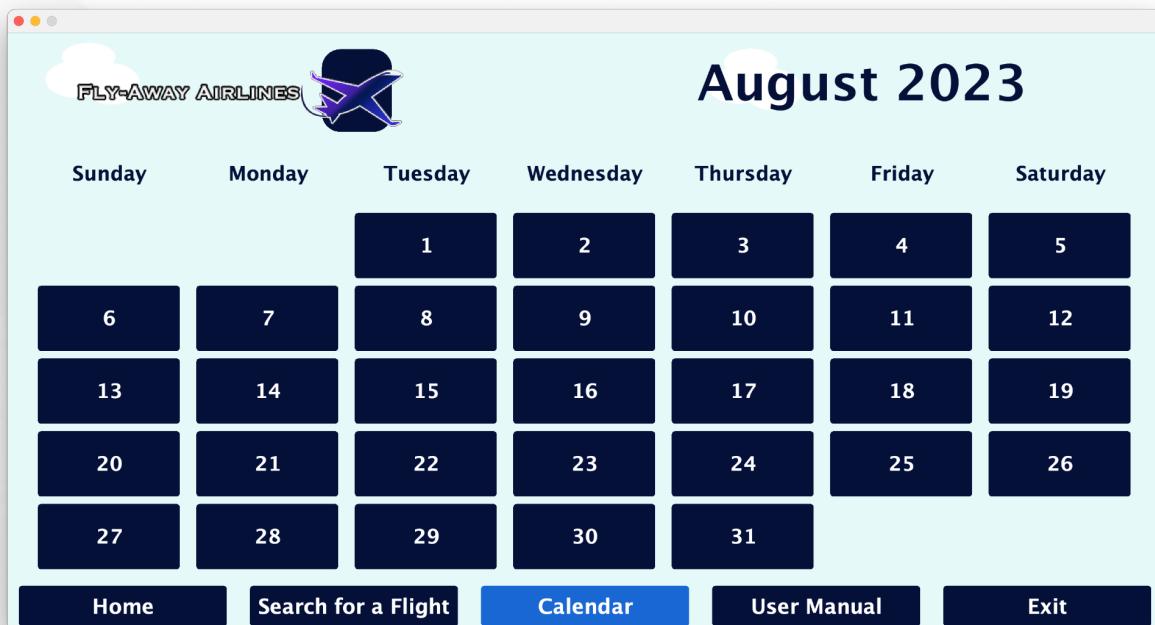


On the flight search screen, you will find four radio buttons for departure cities and four radio buttons for destination cities, as well as the search and swap buttons. The departure and destination radio buttons are used to specify the flights you wish to search for. By selecting a city in the departure section, you will look for the flights that originate from that specific city. The same principle applies to the destination section, where selecting a city will filter the flights to those arriving at that particular destination. Choosing the "All" option for departure or destination means that you would be searching for flights departing from any available location or arriving at any possible destination, respectively. For example, the currently selected configuration would



mean that you would like to look for any flights that depart from Toronto. Pressing the Search button will navigate you to the flight list screen, displaying the relevant search results. Alternatively, the Swap button allows you to interchange your selection between the departure and destination cities.

## Searching for a Flight by Date



On the calendar screen, you will see buttons with dates ordered in weeks. Clicking on any of the day buttons would lead you to the flight list screen, where you could choose from the flights that happen on the corresponding day of the month, based on the button you clicked. For example, clicking on the button with the number 1 on it would lead you to the flight list screen to pick from the flights that happen on the first of August 2023.



## Selecting a Flight

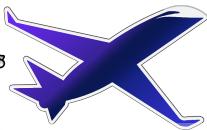
Origin	Destination	Date	Time (EST)	Flight Duration	# Seats Available	Status
Toronto	Ottawa	1/Aug/2023	10:00 a.m.	60 minutes	5	Available
Vancouver	Toronto	1/Aug/2023	3:45 p.m.	4 hours 45 minutes	5	Available
Ottawa	Toronto	2/Aug/2023	1:35 p.m.	60 minutes	5	Available
Toronto	Vancouver	2/Aug/2023	8:00 p.m.	4 hours 45 minutes	6	Available
Vancouver	Ottawa	3/Aug/2023	3:00 p.m.	5 hours 0 minutes	8	Available
Toronto	Ottawa	4/Aug/2023	10:30 a.m.	60 minutes	3	Available
Ottawa	Toronto	5/Aug/2023	1:50 p.m.	60 minutes	0	Full
Ottawa	Vancouver	5/Aug/2023	1:20 p.m.	5 hours 0 minutes	2	Available
Toronto	Ottawa	6/Aug/2023	1:50 p.m.	60 minutes	5	Available
Vancouver	Toronto	6/Aug/2023	10:30 a.m.	4 hours 45 minutes	4	Available
Ottawa	Toronto	8/Aug/2023	1:00 p.m.	60 minutes	0	Full
Toronto	Vancouver	8/Aug/2023	1:35 p.m.	4 hours 45 minutes	6	Available
Vancouver	Ottawa	10/Aug/2023	1:50 p.m.	5 hours 0 minutes	4	Available
Toronto	Ottawa	11/Aug/2023	11:50 p.m.	60 minutes	4	Available

### The table of flights

On the flight list screen, you will see the table of all flights that match the criteria you selected on the flight search screen or the calendar screen. Here, you can see information about each of the flights - their place of departure, destination, date, time, flight duration, number of seats available, and status. The status represents whether the flight is available to be booked, if the flight is fully booked, or if it has been cancelled.

### The sorting buttons

Additionally, you will see five buttons arranged in a row on the top of the screen. These buttons allow you to sort the flights in ascending order based on specific criteria. For example, clicking the "Sort by departure" button will arrange the flights alphabetically based on their place of departure. Similarly, the "Sort by destination" button will sort the flights based on their destination, and the "Sort by date and time" button will sort them starting with the soonest flight. Because the sorting algorithm used to sort the flights is stable, all these sorting buttons can be used in combination with one another as primary, secondary, etc., sorting conditions. For example, you can first select "Sort by date and time" and then "Sort by status" to get the flights sorted by their status and within each status category, the flights are ordered by their date and time.



## Booking, cancelling, renewing flights, and generating the flight manifest

Pressing the "Cancel the Flight" button will cancel the selected flight. If you would like to renew the flight, you can simply press the "Renew the Flight" button. Attempting to cancel a flight that is already cancelled or renew an available flight will display a warning message.

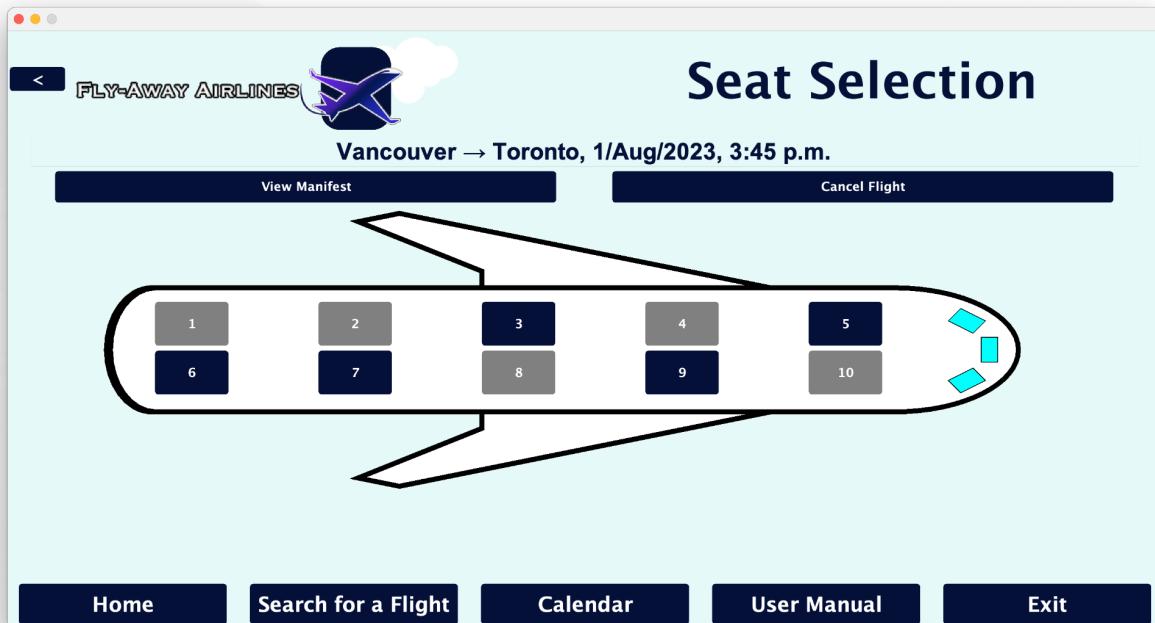
## Flight manifest

Clicking the "View Manifest" button will lead you to the flight manifest screen, where you can access complete information about the selected flight. This includes seat prices and detailed information about the passengers who have booked seats. For more information on the flight manifest please see the Viewing the Flight Manifest section.

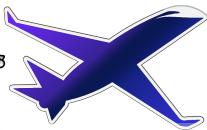
## Selecting a flight to book

Lastly, pressing the "Book Flight" button will take you to the seat selection screen for the chosen flight, allowing you to choose and book a seat.

## Seat Selection



On the seat selection screen, you will see buttons representing the seats on a



plane. The dark blue seat buttons represent the empty seats and the grey buttons represent the seats that are already reserved. Clicking on either of the seat buttons would lead you to the user information screen, where you could reserve the seat, update passenger information, or cancel the booking. The other buttons you see on the screen are - the View Manifest button which would lead you to the flight manifest screen, where you would see complete information about the flight, and the Cancel Flight button which cancels the flight you are currently viewing.

## Booking and Updating a Seat

### Booking an empty seat

The screenshot shows a window titled "Enter your Information". At the top left is a back arrow and the "FLY-AWAY AIRLINES" logo. On the right is a small airplane icon. The main area contains five text input fields with placeholder text: "Enter your first name", "Enter your last name", "Enter your phone number in one of the following formats - \"XXXXXXXXX\", \"XXX XXX XXXX\", \"XXX-XXX-XXXX\"", "Enter your email", and "Enter your date of birth in the following format - \"dd/mm/yyyy\"". Below these fields is a text field labeled "The price of the seat:" containing "113.23\$". To the right of this is a "Book the seat" button. At the bottom are five navigation buttons: "Home", "Search for a Flight", "Calendar", "User Manual", and "Exit".

On the user information screen, if you clicked on an empty seat, you would see five text fields you could write in on the left of your screen, each containing instructions on what information to input above the field. Also, you can see a text field containing the price of the seat at the bottom left as well as the back button in the top left corner of the screen, which when pressed would return you to seat selection. Additionally, there is the "Book the Seat" button that, when pressed, verifies the data you entered. If any errors are detected in the information inputted, a warning message will pop up and an explanation of the error will be provided in the text field to the right of the field containing the error. If the entered information contains no errors, the seat will be booked with your information.



## Updating a Reservation

The screenshot shows a window titled "Enter your Information" for updating a reservation. The window has a light blue header bar with the title and a dark blue footer bar with navigation links. The main area contains several input fields:

- First Name: Leo
- Last Name: Martinez
- Phone Number: 9403325498
- Email: leo.martinez@gmail.com
- Date of Birth: 08/11/1985
- Seat Price: 180.00\$

At the bottom right are two buttons: "Cancel booking" and "Update Reservation".

**Footer Links:**

- Home
- Search for a Flight
- Calendar
- User Manual
- Exit

If you clicked on an occupied seat, you will see the information of the passenger that has reserved the seat. Additionally, a “Cancel Booking” button will appear to enable you to cancel the booking. If the Update Reservation button is pressed, the program would act in the same way as the book button previously described, however, instead of booking the seat, it would simply update the information of the passenger occupying the seat.



## Viewing the Flight Manifest

The screenshot shows a flight manifest for a flight from Toronto to Ottawa on 1/Aug/2023 at 10:00 a.m. The manifest lists 10 seats, each with a passenger's name, phone number, email, and date of birth. The passengers are Penelope Hernandez, Wyatt Adams, Leo Martinez, Sofia Robinson, Aria Brown, and two unnamed passengers (Seat #1 and #10). Seats #1, #3, #4, #5, #6, #7, #8, and #9 are empty and priced at \$180.00. Seats #2 and #10 are reserved for Penelope Hernandez and Aria Brown respectively, and are priced at \$270.00. The manifest also includes sorting options by Name or seat #, and a Print button.

Seat #	Passenger Name	Phone number	Email	DOB	Price
Seat #1					\$180.00
Seat #2	Penelope Hernandez	7901954120	penelope.hernandez@yahoo.com	27/Sep/1967	
Seat #3					\$180.00
Seat #4	Wyatt Adams	794 330 9329	wyatt.adams@gmail.com	24/Feb/2001	
Seat #5					\$270.00
Seat #6	Leo Martinez	9403325498	leo.martinez@gmail.com	8/Nov/1985	
Seat #7	Sofia Robinson	870-521-5215	sofia.robinson@yahoo.com	6/Mar/1963	
Seat #8					\$180.00
Seat #9	Aria Brown	559 035 7492	aria.brown@gmail.com	14/May/1981	
Seat #10					\$270.00

**Flight Manifest**

Toronto → Ottawa, 1/Aug/2023, 10:00 a.m.

Sort by Name   Sort by seat #   Print

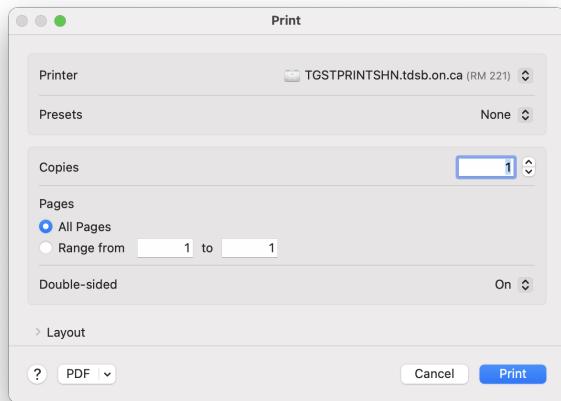
Home   Search for a Flight   Calendar   User Manual   Exit

On the flight manifest screen, you will see the information about the selected flight, including its place of departure, destination, date, and time as well as information about every passenger with a reserved seat on the flight, including the price of that seat. The information can be sorted by pressing one of the two sorting buttons. Pressing the “Sort by Name” button lexicographically sorts the seating information by the names of the passengers in ascending order, and pressing the “Sort by Seat #” button sorts the seating information in ascending order according to the seat number. To proceed to print the manifest, simply click the Print button.



## Printing and saving

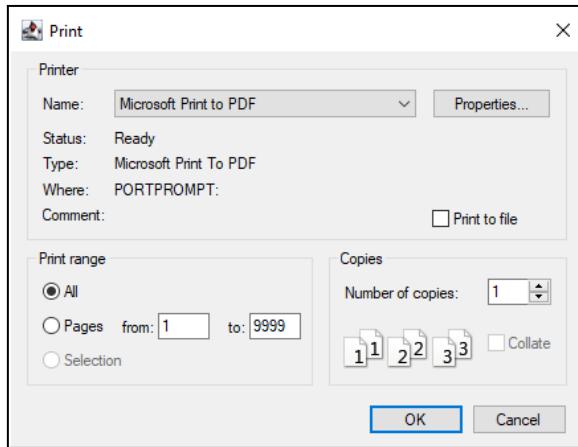
Mac



To print or save the flight manifest on a Mac platform, after pressing the Print button on the flight manifest screen, you will see a screen that looks like the one presented above. If you would like to print the manifest you can just press the blue print button at the bottom right of the pop-up. Alternatively, if you wish to save the flight manifest as a PDF file you can click on the white button that says PDF at the bottom left of the pop-up and then it will prompt you to select the location you would like the file to be saved to as well as the name of the file.



## Windows



To save the flight manifest on a Windows platform, after pressing the Print button on the flight manifest screen, you will see a screen that looks like the one presented above. Select the "Microsoft Print to PDF" format and press the OK button. After that, your file explorer will be opened, and you can choose the place where you would like to save your file as well as the name of the file.