

# User Manual



**JAVA AIR**

**Ticket Booking Application**  
an Avian Limited Product

## **Purpose of the document**

This purpose of this document is to provide information about the installation and use of the software application, *Java Air Ticket Booking Application*, to end users. An end user is defined as anyone who uses this application after public release. These users may have different roles such as: guest customer, registered customer, or employee.

## Document history

Version	Date	Drafter	Description
1.0.0	11/14/16	Amy Erxleben Yuwei Cao Guoyu Qi	First draft of document
1.0.1	11/17/16	Steve Jia	Corrected header and footer
1.1.0	12/06/16	Amy Erxleben	Updated sections 1, 4, 6, 7, 10, 11, and 12
1.1.1	12/09/16	Amy Erxleben	Updated sections 8 & 11

## Validation

**Representative**

**Validator**

**Date**







# Contents

<b>PURPOSE OF THE DOCUMENT</b>	<b>2</b>
<b>DOCUMENT HISTORY</b>	<b>3</b>
<b>VALIDATION</b>	<b>3</b>
<b>1. ICONS USED IN THE MANUEL</b>	<b>5</b>
<b>2. PRESENTATION OF THE SOLUTION</b>	<b>5</b>
2.1 Brief description	5
2.2 Project players	6
2.3 Support	6
<b>3. INSTALLING THE APPLICATION</b>	<b>6</b>
3.1 Hardware Requirements	6
3.2 Software Requirements	6
3.3 Launching the Application	6
<b>4. STRUCTURING OF THE APPLICATION</b>	<b>7</b>
4.1 Layout	7
4.2 Menus	7
4.3 Functionalities	8
4.3.1 Functionalities Presented/Described	8
4.3.2 Functionalities not Presented/not Described	8
<b>5. NEW USER ACCOUNT REGISTRATION</b>	<b>8</b>
5.1 Description	8
5.2 Screenshots and actions	8
<b>6. USER ACCOUNT LOGIN/LOGOUT</b>	<b>10</b>
6.1 Description	10
6.2 Screenshots and actions	10
<b>7. USER PASSWORD RESET</b>	<b>11</b>
7.1 Description	11
7.2 Screenshots and actions	12
<b>8. UPDATE PERSONAL INFORMATION</b>	<b>13</b>
8.1 Description	13
8.2 Screenshots and actions	13
<b>9. FLIGHT SEARCH</b>	<b>14</b>
9.1 Description	14
9.2 Screenshots and actions	14
<b>10. FLIGHT RESERVATION</b>	<b>16</b>
10.1 Description	16
10.2 Screenshots and actions	16

<b>11. RESERVATION LOOK-UP</b>	<b>18</b>
11.1 Description	18
11.2 Screenshots and actions	18
<b>12. FLIGHT CHECK-IN</b>	<b>19</b>
12.1 Description	19
12.2 Screenshots and actions	19
<b>13. FLIGHT STATUS LOOK-UP</b>	<b>20</b>
13.1 Description	20
13.2 Screenshots and actions	21
<b>14. EMPLOYEE LOGIN/LOGOUT</b>	<b>21</b>
14.1 Description	21
14.2 Screenshots and actions	21
<b>15. APPENDICES</b>	<b>24</b>
15.1 Appendix A: Java JDK 8 installation	24

## 1. ICONS USED IN THE MANUEL

Throughout this document, the pictograms below are used to underline points or important notions

	Important information
	Good to know – Tricks
	<b>Risk</b> in front of a parameter setting or of a specific action
	Mandatory action
	Actions reserved for the employee
	Actions reserved for the customer

## 2. PRESENTATION OF THE SOLUTION

### 2.1 BRIEF DESCRIPTION

The *Java Air Ticket Booking Application* is primarily designed to facilitate booking of airline flights by customers as well as employees. Other functionalities include updating personal information for registered customers and employees as well as viewing available rewards for registered customers.

## 2.2 PROJECT PLAYERS

**Avian Limited:** Avian limited includes all members of the development team. The development team is the owner of this software application and has the sole rights to this software.

**Guest Customer:** A guest customer is a customer who wishes to use this application without creating a login profile.

**Registered Customer:** A customer who has created a login profile. This profile includes the customer's personal information, email address (login ID), and a password.

**Employee:** This project player is anyone who is employed by Java Air. Certain features of the application may be disabled depending on the employee's specific role in the company.

## 2.3 SUPPORT

Support of this application is primarily delivered via this user manual document. Technical support is also available via:

- Telephone: 1-800-JAVAAIR (open M-F 8am-5pm EST)
- Email: support@javaair.com

# 3. INSTALLING THE APPLICATION

---

## 3.1 HARDWARE REQUIREMENTS

- 1 gigahertz (GHz) or faster 32-bit (x86) or 64-bit (x64) processor
- 1 GB RAM (32-bit) or 2 GB RAM (64-bit)
- 16 GB available hard disk space (32-bit) or 20 GB (64-bit)
- DirectX 9 graphics device with WDDM 1.0 or higher driver
- 2.0 or greater USB driver
- a compatible optical drive
- Internet access.
- A mouse and a keyboard

## 3.2 SOFTWARE REQUIREMENTS

- Windows 7 or higher.
- Java JDK 8 or higher. Installation instructions are in Appendix A.

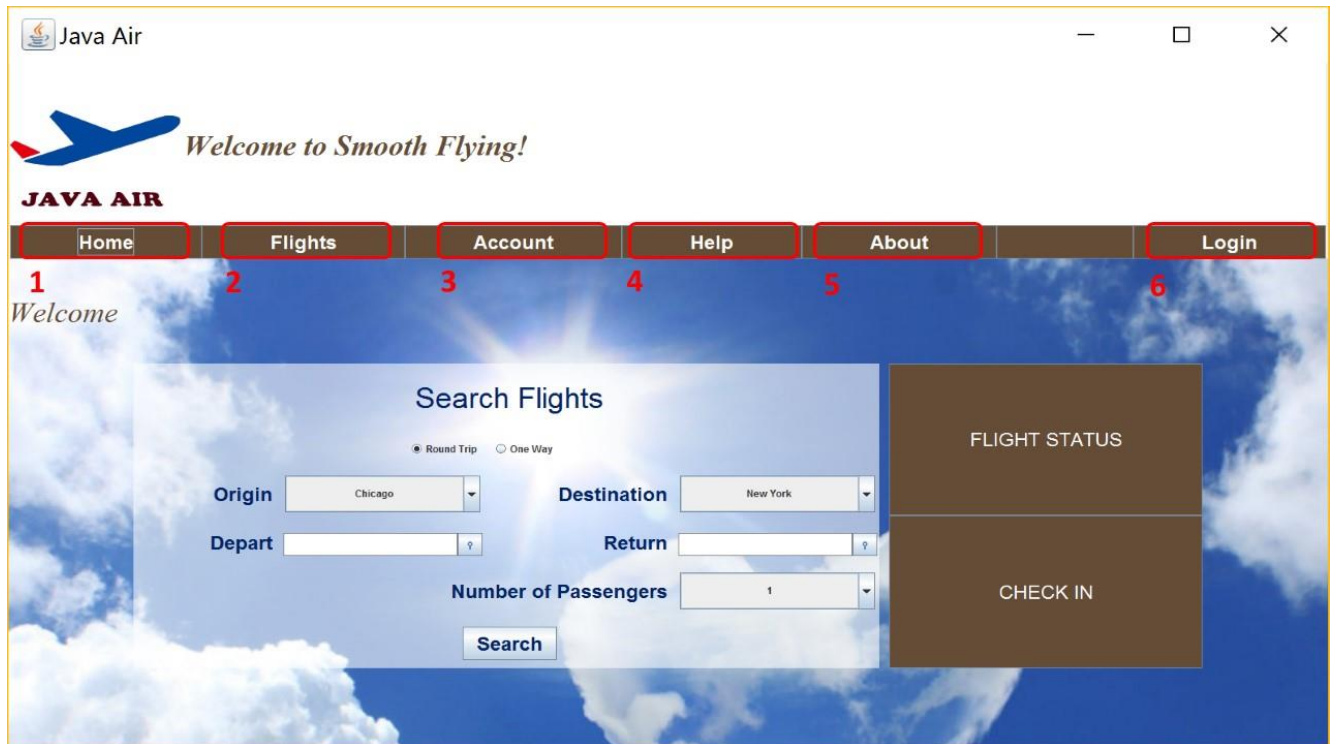
## 3.3 LAUNCHING THE APPLICATION

Locate the folder on your computer titled "JavaAir". Inside this folder locate the file named "JavaAir.jar". Double click on this file to launch the application.

## 4. STRUCTURING OF THE APPLICATION

### 4.1 LAYOUT

All pages in the application have the main menu bar across the top. An example of this is shown below. This example is a view from the home page of the application.



### 4.2 MENUS

1. *Home Button*- Press this menu button at any time to return to the home screen.
2. *Flights Button*- Press this menu button at any time to go to the flight search page.
3. *Account*- Pressing this button at any time as a guest customer will direct you to the login landing page. Pressing this button at any time while logged in as a registered customer will direct you to your account information page.
4. *Help*- Press this button at any time to get access to this user manual.
5. *About*- Press this button at any time to get information about the current version of the software running.
6. *Login(Logout)*- This button displays "Login" if a guest customer is using the application. Pressing this "Login" button at any time will direct the customer to the login landing page. This button displays "Logout" if a registered customer is currently logged in. Pressing "Logout" will log the registered customer out of the application.

## 4.3 FUNCTIONALITIES

### 4.3.1 FUNCTIONALITIES PRESENTED/DESCRIBED

- New User Account Registration(Section 5)
- User Account Login/Logout(Section 6)
- User Password Reset(Section 7)
- Update Personal Information(Section 8)
- Flight Search(Section 9)
- Flight Reservation(Section 10)
- Reservation Lookup(Section 11)
- Flight Check-In(Section 12)
- Flight Status Lookup(Section 13)
- Employee Login/Logout(Section 14)

### 4.3.2 FUNCTIONALITIES NOT PRESENTED/NOT DESCRIBED

- Viewing Registered Customer Rewards

## 5. NEW USER ACCOUNT REGISTRATION

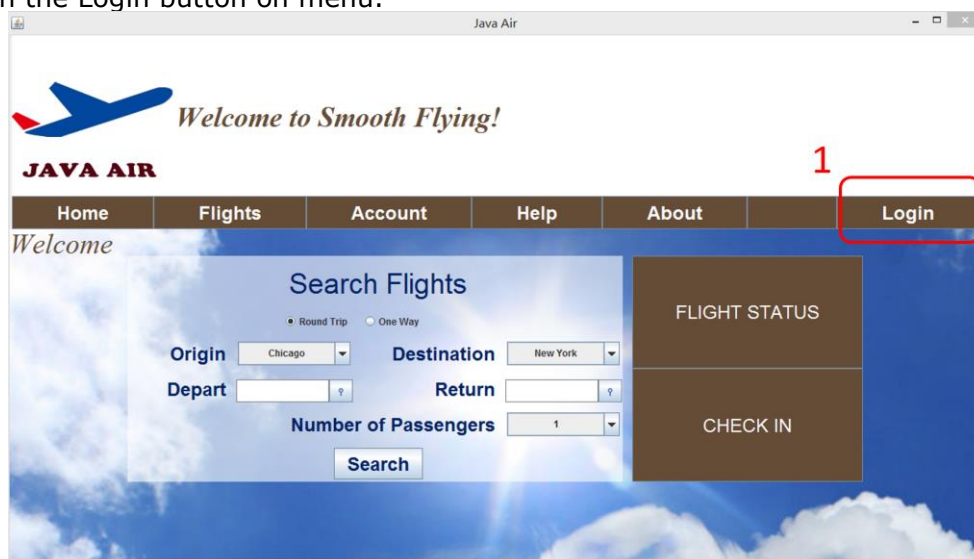


### 5.1 DESCRIPTION

This function is for new customer to register on Java Air application.

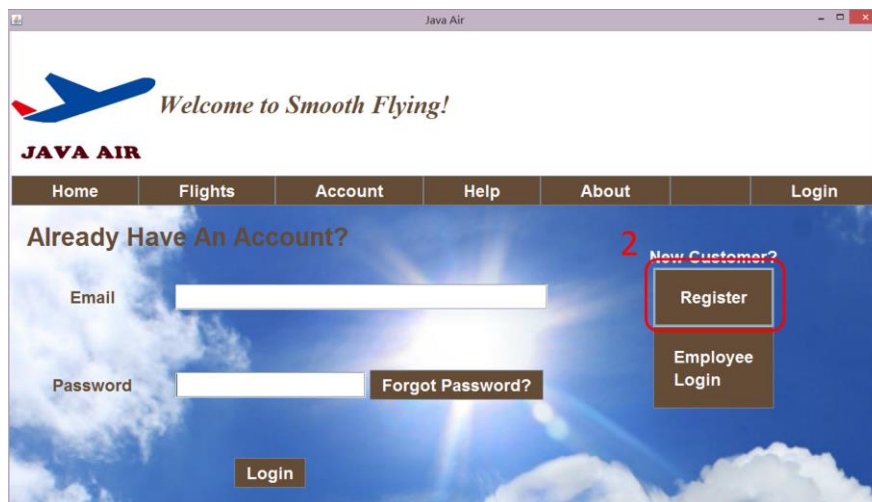
### 5.2 SCREENSHOTS AND ACTIONS

Step1 : Click on the Login button on menu.






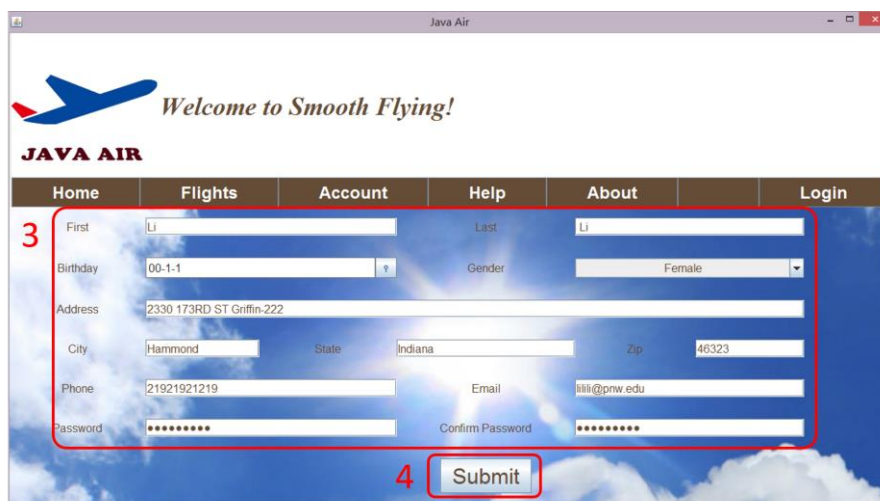
Step2 : Click on the Register button.



The screenshot shows the Java Air website interface. At the top, there's a logo and the text "Welcome to Smooth Flying!". Below that is a navigation bar with links: Home, Flights, Account, Help, About, and Login. The main content area has a background of a blue sky with clouds. On the left, there's a section titled "Already Have An Account?" with input fields for Email and Password, a "Forgot Password?" link, and a "Login" button. On the right, there's a section titled "New Customer?" with a red box around it. Inside this box, the "Register" button is circled in red. Below it are links for "Employee Login". A red number "2" is placed next to the "New Customer?" text.

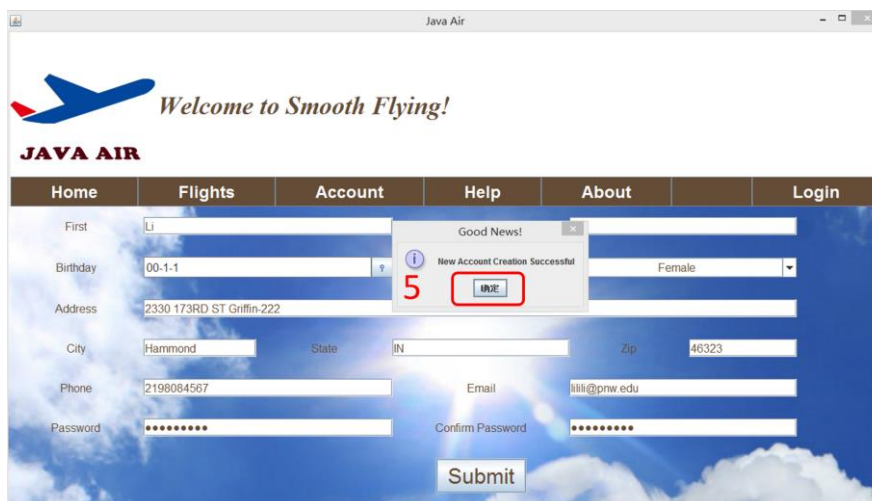
Step3 :  Fill all required personal information in Registration page.

Step4 : Confirm the information and click on the Submit button.



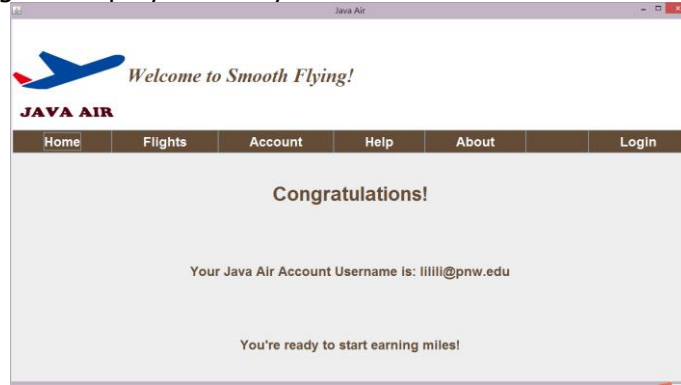
The screenshot shows the Java Air website interface. The registration form is highlighted with a red box. The form includes fields for First Name (Li), Last Name (Li), Birthday (00-1-1), Gender (Female), Address (2330 173RD ST Griffin-222), City (Hammond), State (Indiana), Zip (46323), Phone (21921921219), Email (lili@pnw.edu), Password (\*\*\*\*\*), and Confirm Password (\*\*\*\*\*). A red number "3" is next to the "First" field. Below the form, the "Submit" button is circled in red, with a red number "4" next to it.

Step5 : Now you are a registered Java Air customer.



The screenshot shows the Java Air website interface. A "Good News!" dialog box is displayed in the center, indicating "New Account Creation Successful". The dialog box has a red box around the "OK" button. A red number "5" is next to the "OK" button. The registration form is visible in the background, with the "Submit" button circled in red.

Step6: Confirmation Page is displayed with your username.



## 6. USER ACCOUNT LOGIN/LOGOUT

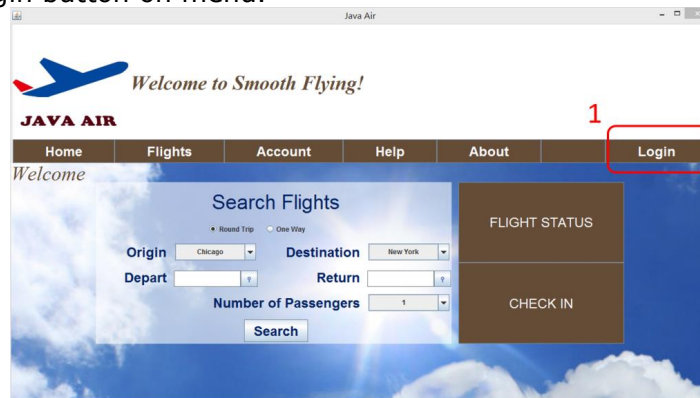


### 6.1 DESCRIPTION

The User Account Login/logout function is for a registered Java Air customer to access to or exit from his or her personal account.

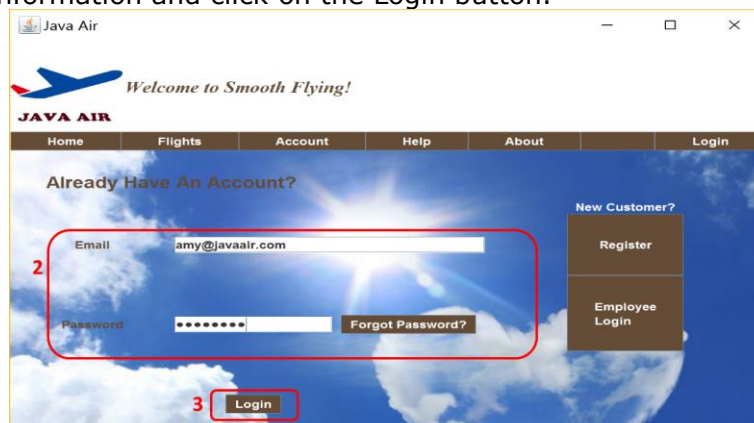
### 6.2 SCREENSHOTS AND ACTIONS

Step1 : Click on the Login button on menu.

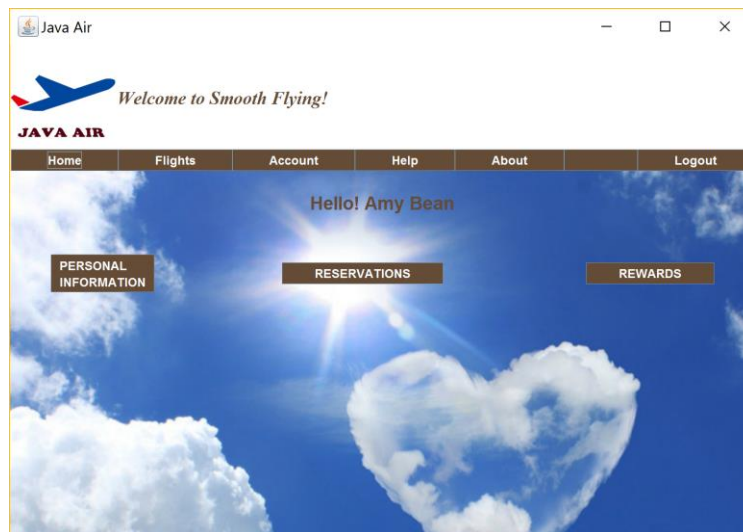


Step2 : Fill in Email and Password.

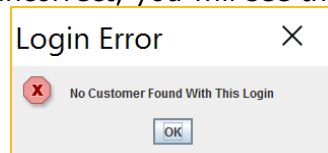
Step3 : Confirm the information and click on the Login button.



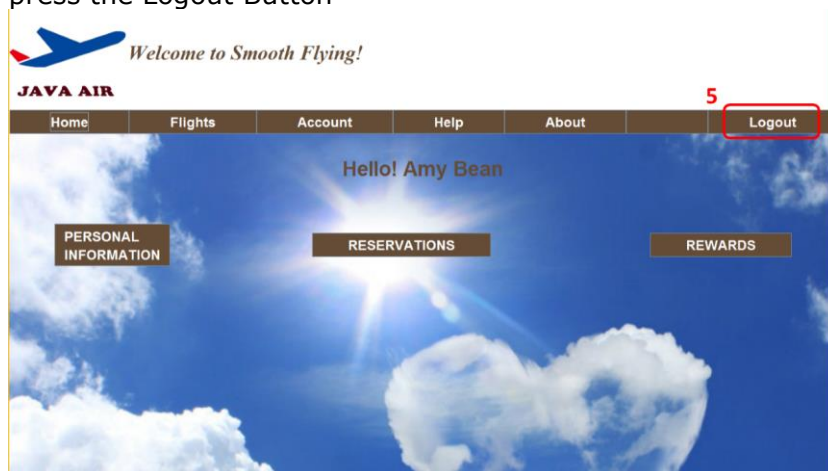
Step4a : If your login information is correct you will be directed to the account Home page



Step 4b: If your login information is incorrect, you will see the following pop up message:



Step 5: To logout, press the Logout Button



## 7. USER PASSWORD RESET

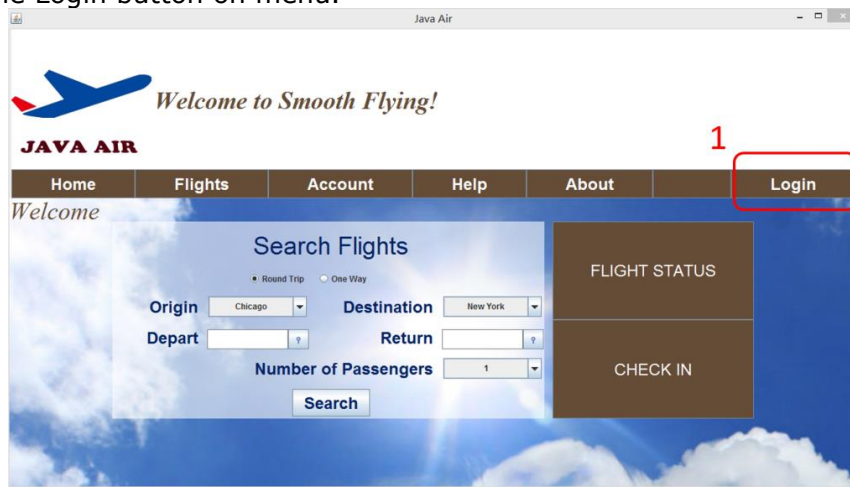


### 7.1 DESCRIPTION

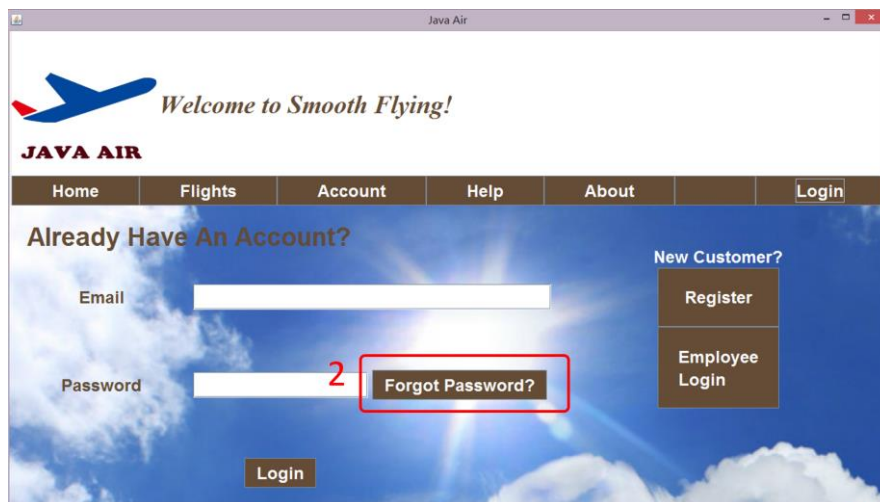
The User Password Reset function is for a registered Java Air customer to reset his/her password.

## 7.2 SCREENSHOTS AND ACTIONS

Step1 : Click on the Login button on menu.



Step2 : Click on the Forget Password button.

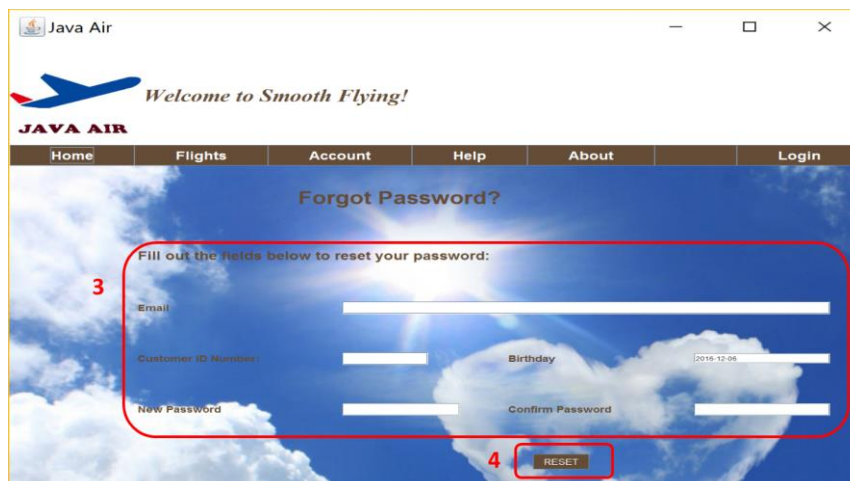


Step3 : Fill in all required information.

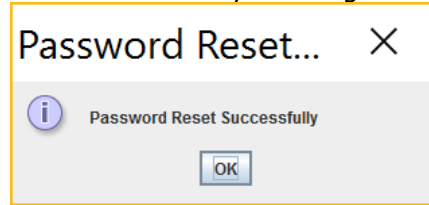
Step4 : Confirm the information and click on the Reset button.



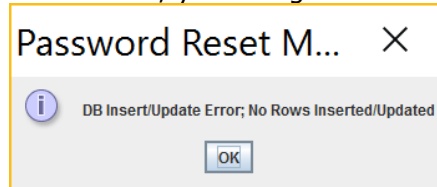
Clicking confirm immediately resets the account password!



Step 5a: If your information matches our records you will get the following message:



Step 5b: If your information does not match, you will get this message:



Step 6: Press ok to try again. If you continue to have trouble please contact our support team.

## 8. UPDATE PERSONAL INFORMATION

---

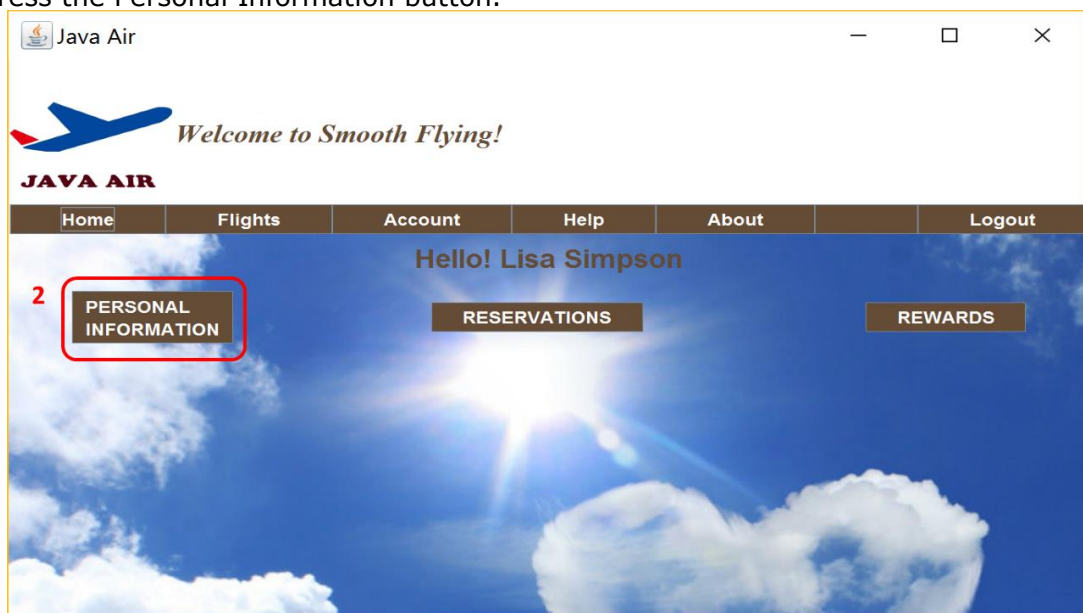
### 8.1 DESCRIPTION

The Update Personal Information function is for a registered Java Air customer to look-up and update his or her personal information in the account.

### 8.2 SCREENSHOTS AND ACTIONS

Step1 : Login to your Java Air account(see 6. *User Account Login/Logout* for instruction).

Step2 : Press the Personal Information button.

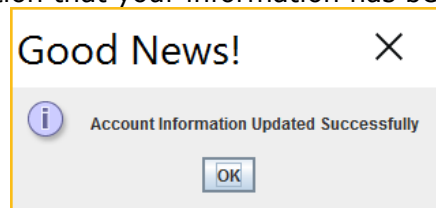




Step 3: Change desired information and click Submit.

Java Air  
Welcome to Smooth Flying!  
JAVA AIR  
Home Flights Account Help About Logout  
Hello! Lisa Simpson  
PERSONAL INFORMATION RESERVATIONS REWARDS  
First: Lisa Last: Simpson  
Birthday: Wed 07/20/1988 Gender: Female  
Address: 742 Evergreen  
City: Springfield State: NT Zip: 47009  
Phone: (350) 889-1543 Email: lisa@javair.com  
Password: \*\*\*\* Confirm Password: \*\*\*\*  
3 Submit

Step 4: Receive popup confirmation that your information has been updated.



## 9. FLIGHT SEARCH

### 9.1 DESCRIPTION

The Flight Search function is for Java Air customer to search for matching flights by filling all search information, i.e. trip type, destination/origin, departure/arrival date, and number of passengers.

### 9.2 SCREENSHOTS AND ACTIONS

Step1a : Fill in required search information in the Search Flights window on Java Air home page.

Step2a : Confirm the information and click on the Search button.

Java Air  
Welcome to Smooth Flying!  
JAVA AIR  
Home Flights Account Help About Login  
Welcome  
1 Search Flights  
Round Trip One Way  
Origin: Chicago Destination: New York  
Depart: 16-11-13 Return: 16-11-15  
Number of Passengers: 1  
2 Search  
FLIGHT STATUS  
CHECK IN



Step1b : Alternately, Click Flights button on the menu and fill in required search information in Book Travel window on the left side of flight search page.

Step2b : Confirm the information and click on Find Flights button.

The screenshot shows the Java Air website interface. The 'Book travel' form on the left is highlighted with a red box and labeled '1'. It contains fields for 'From' (Chicago), 'To' (New York), 'Departure' (16-11-13), and 'Return' (16-11-15). Below these fields are radio buttons for 'Roundtrip' (selected) and 'One-way', and a 'Passenger' dropdown set to '1'. A yellow 'Find Flights' button is highlighted with a red box and labeled '2'. On the right, flight results are displayed for JAF0001 and JAF0007, both showing routes from Chicago to New York with prices of 177.6.

Step3 : Get matching flights on the right side of flight search page..

The screenshot shows the same Java Air website interface, but the 'Book travel' form is no longer highlighted. The flight results on the right are now highlighted with a red box and labeled '3'. The results show two flights: JAF0001 (Chicago to New York, nonstop, 2.4 hours, price 177.6) and JAF0007 (Chicago to New York, nonstop, 2.25 hours, price 177.6).



## 10. FLIGHT RESERVATION

### 10.1 DESCRIPTION

The Flight Reservation function is for Java Air customer to book flights.

### 10.2 SCREENSHOTS AND ACTIONS

Step1 : Search for flights(see 9. *Flight Search* for instruction) and click on the price button to selected desired flight.

Book travel

From: Chicago To: New York


Departure: 16-11-13 Return: 16-11-15

Passenger: 1

Roundtrip One-way

Find Flights

Flight	From	To	Class	Price
JAF0001	Chicago	New York	nonstop 2.4	177.6
JAF0007	Chicago	New York	nonstop 2.25	177.6

Step2 :  Fill in all required information in Traveler window.

Step3 : Confirm the information and click on the Continue button.

Traveler Payment Confirm

Traveler 1 - primary traveler

Li Li

Date of birth\* 01/01/2000 Gender\* Male Female


G1123456

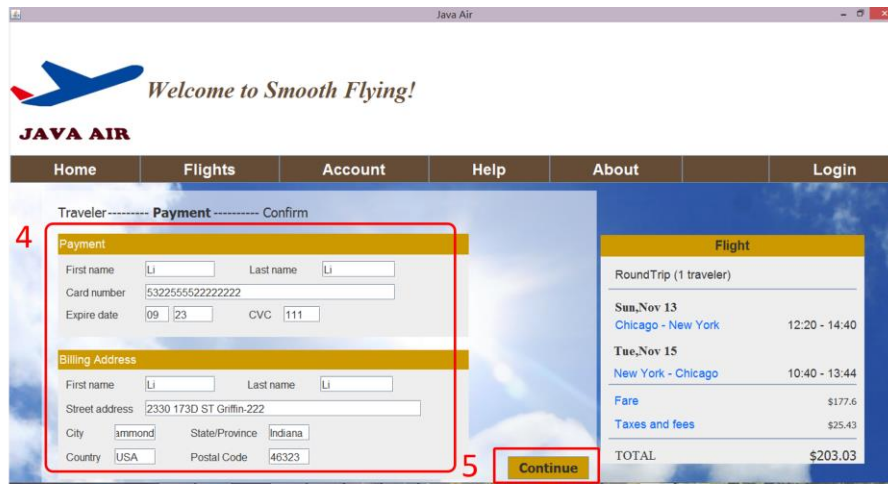
Travel contact information 2198889999 lili@pnu.edu

Continue

Flight	
RoundTrip (1 traveler)	
Sun, Nov 13	Chicago - New York 12:20 - 14:40
Tue, Nov 15	New York - Chicago 10:40 - 13:44
Fare	\$177.6
Taxes and fees	\$25.43
TOTAL	\$203.03



- Step4 :  Fill in all required information in Payment window.  
 Step5 : Confirm the information and click on the Continue button.



Traveler ----- **Payment** ----- Confirm

**4**

**Payment**

First name  Last name

Card number

Expire date   CVC

**Billing Address**

First name  Last name

Street address

City  State/Province

Country  Postal Code

**5** **Continue**


**Flight**

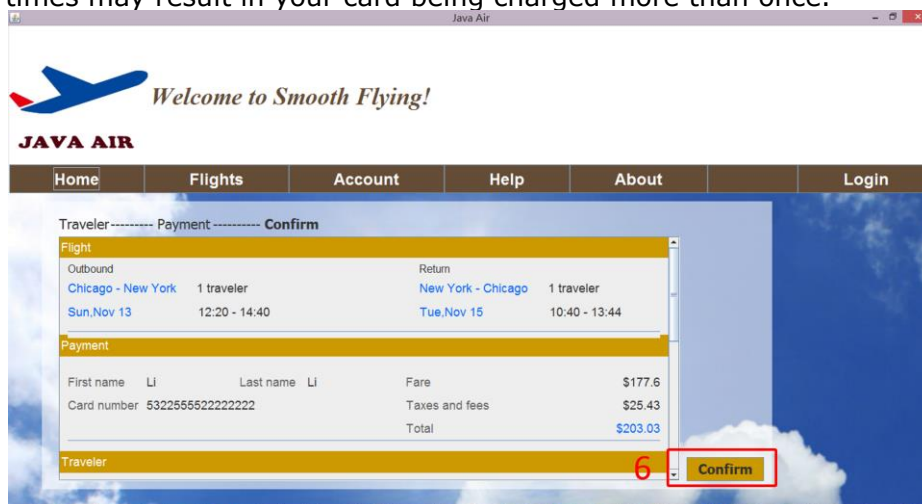
RoundTrip (1 traveler)

Outbound	Return
Sun, Nov 13 Chicago - New York 12:20 - 14:40	Tue, Nov 15 New York - Chicago 10:40 - 13:44

Fare	Taxes and fees	TOTAL
\$177.6	\$25.43	\$203.03

- Step6 : Confirm all booking information and click on the Confirm button.

 Clicking the Confirm button will immediately charge the credit card entered. Clicking multiple times may result in your card being charged more than once.



Traveler ----- Payment ----- **Confirm**

**Flight**

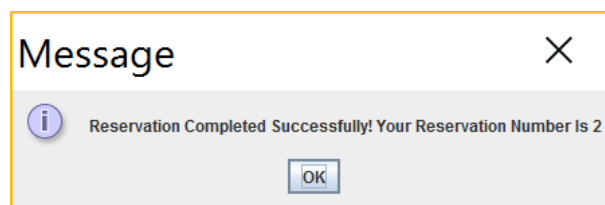
Outbound	Return
Chicago - New York 1 traveler Sun, Nov 13 12:20 - 14:40	New York - Chicago 1 traveler Tue, Nov 15 10:40 - 13:44

**Payment**


First name	Last name	Fare	Taxes and fees	Total
Li	Li	\$177.6	\$25.43	\$203.03

**6** **Confirm**

- Step 7: Popup box confirms reservation was made successfully. Press ok to return to the home screen:



**Message** X

 Reservation Completed Successfully! Your Reservation Number Is 2

**OK**

## 11. RESERVATION LOOK-UP



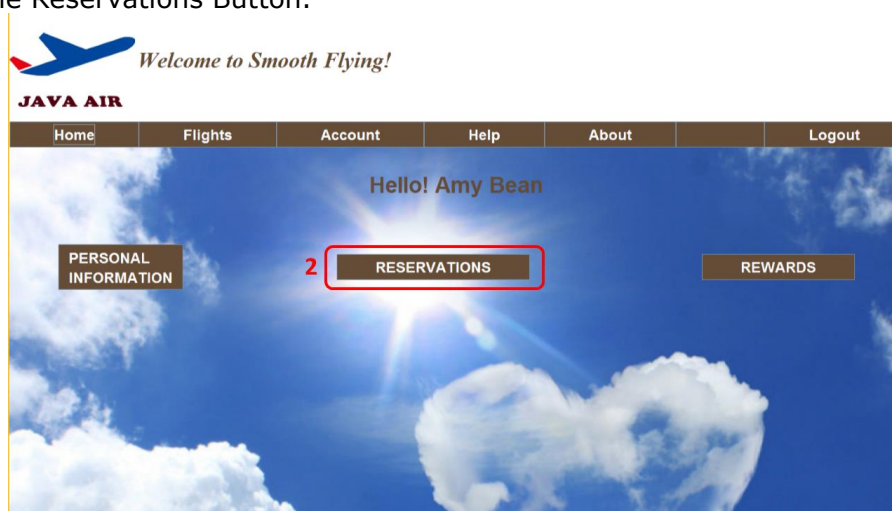
### 11.1 DESCRIPTION

The Reservation Look-up function is for registered Java Air customers to look up their existing reservations online.

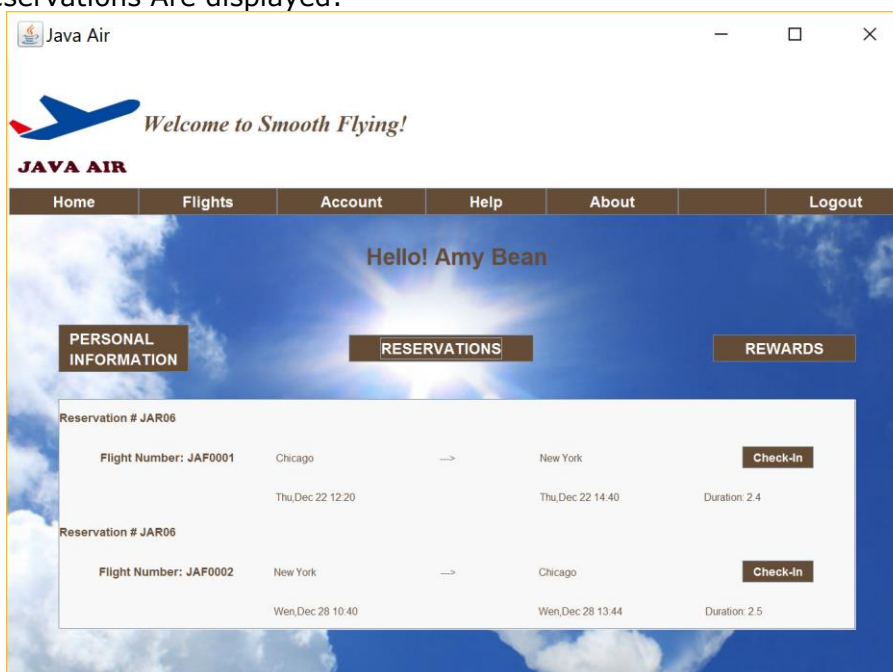
### 11.2 SCREENSHOTS AND ACTIONS

Step1 : Login to your Java Air account(see 6. *User Account Login/Logout* for instruction).

Step 2: Press the Reservations Button.



Step 3: Your Reservations Are displayed:





## 12. FLIGHT CHECK-IN

### 12.1 DESCRIPTION

The Flight Check-in function is for Java Air customers to check-in online.

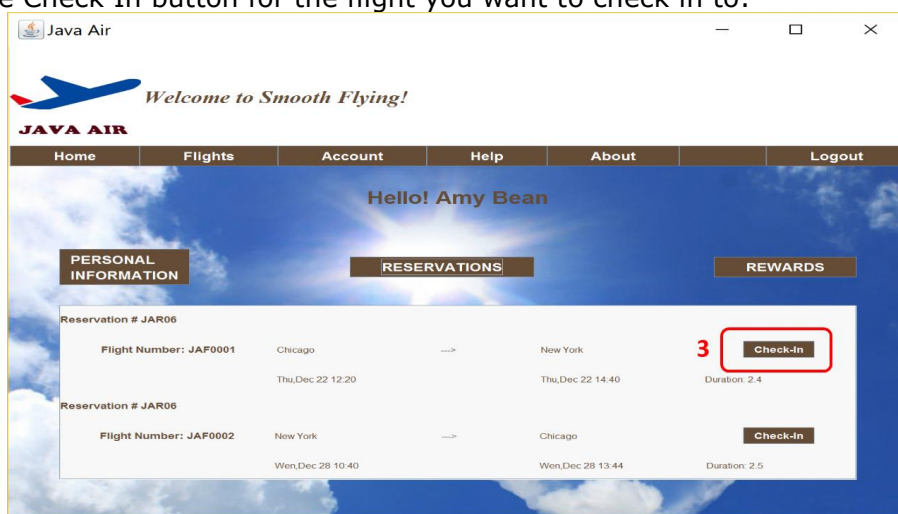
### 12.2 SCREENSHOTS AND ACTIONS

For Registered Customer :

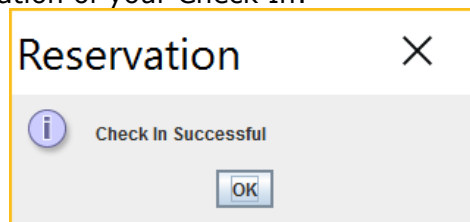
Step1 : Login to your Java Air account(see 6. *User Account Login/Logout* for instruction).

Step 2: Access your Flight Reservations(see 11. *Reservation Lookup* for instruction).

Step 3: Press the Check In button for the flight you want to check in to:




Step 4: Receive popup Confirmation of your Check In:



For Guest:

Step1 : Click Check In button on the Java Air home page.

The screenshot shows the Java Air homepage with a blue sky background. At the top, there is a logo and the text "Welcome to Smooth Flying!". Below this is a navigation bar with links: Home, Flights, Account, Help, About, and Login. The main content area features a "Search Flights" form with fields for Origin (Chicago), Destination (New York), Depart, Return, and Number of Passengers (1). A "Search" button is at the bottom of the form. To the right of the form, there are two buttons: "FLIGHT STATUS" and "CHECK IN". The "CHECK IN" button is highlighted with a red rectangle and a red number 1.

- Step2:  Fill in all required information in the Check In page.  
Step3: Confirm the information and click on the Check In button.

The screenshot shows the Java Air Check In page. It has the same header and navigation bar as the homepage. The main content area is titled "Check In" and contains the text "Fill out the fields below to check in for your flight:". Below this, there are three input fields: "Reservation ID Number" (containing 123456), "First" (containing guoyu), and "Last" (containing q). A "CHECK IN" button is at the bottom right. The "CHECK IN" button is highlighted with a red rectangle and a red number 3. The input fields are highlighted with a red rectangle and a red number 2.

- Step4: Receive popup confirmation of your check in:

The screenshot shows a "Reservation" popup window. It has a title bar with "Reservation" and a close button (X). Inside the window, there is an information icon (i) and the text "Check In Successful". At the bottom, there is an "OK" button.

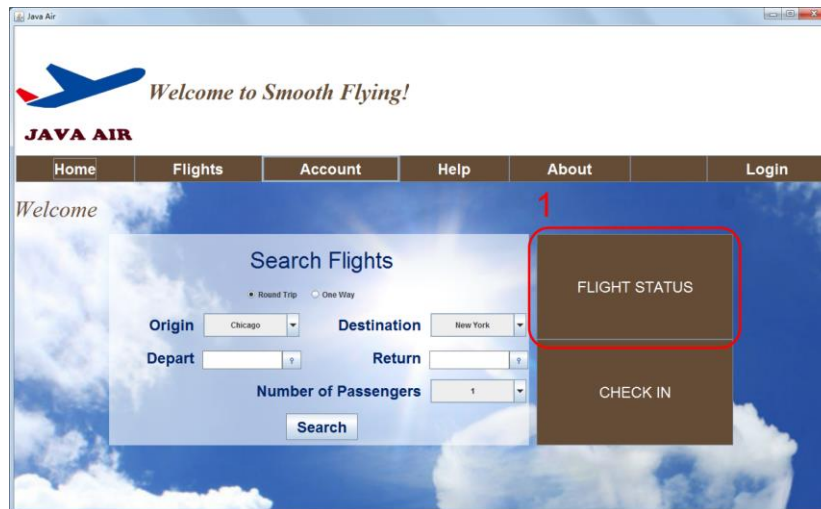
## 13. FLIGHT STATUS LOOK-UP

### 13.1 DESCRIPTION

The Flight Status Look-up function is for Java Air customers to look-up the current flight status(on time, delay, cancel) online.

## 13.2 SCREENSHOTS AND ACTIONS

Step1 : Click on Flight Status button on the Java Air home page.



Step2: All the current flight status will display on the Flight Status page.



## 14. EMPLOYEE LOGIN/LOGOUT

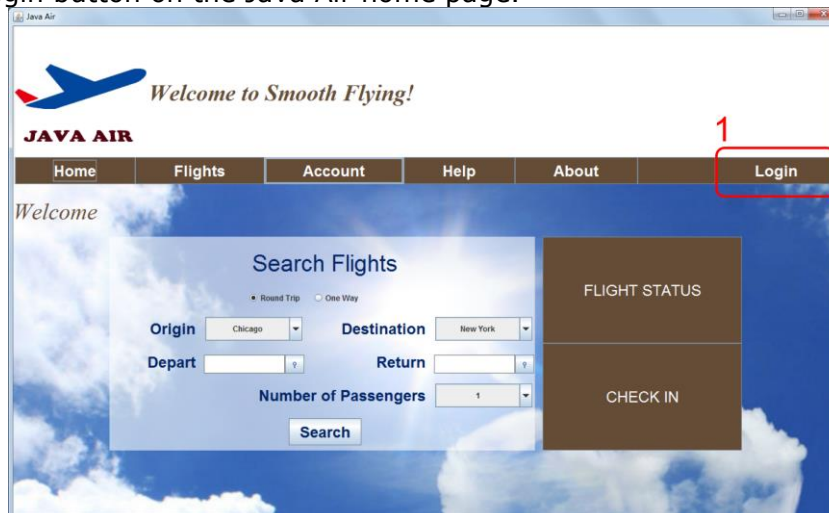


### 14.1 DESCRIPTION

The Employee Login/Logout function is for Java Air employees to access different functions with different employee ID.

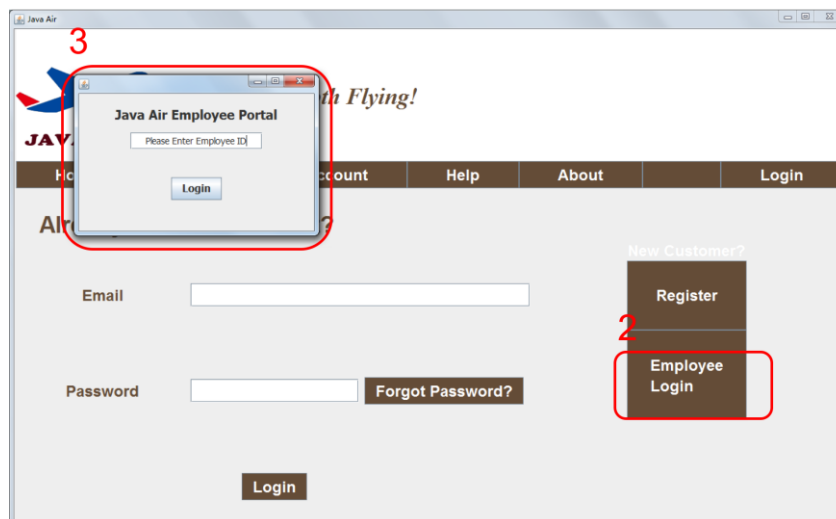
### 14.2 SCREENSHOTS AND ACTIONS

Step1 : Click on Login button on the Java Air home page.



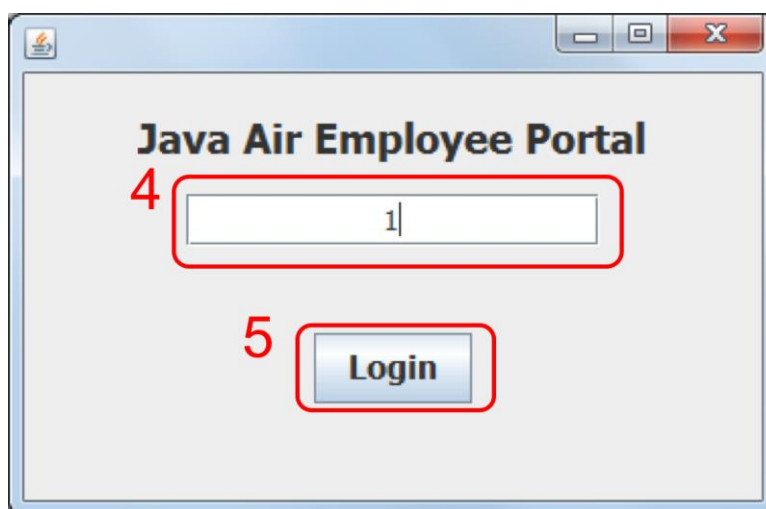
Step2: Click on Employee Login button on the Login page.

Step3: The employee login window will display.

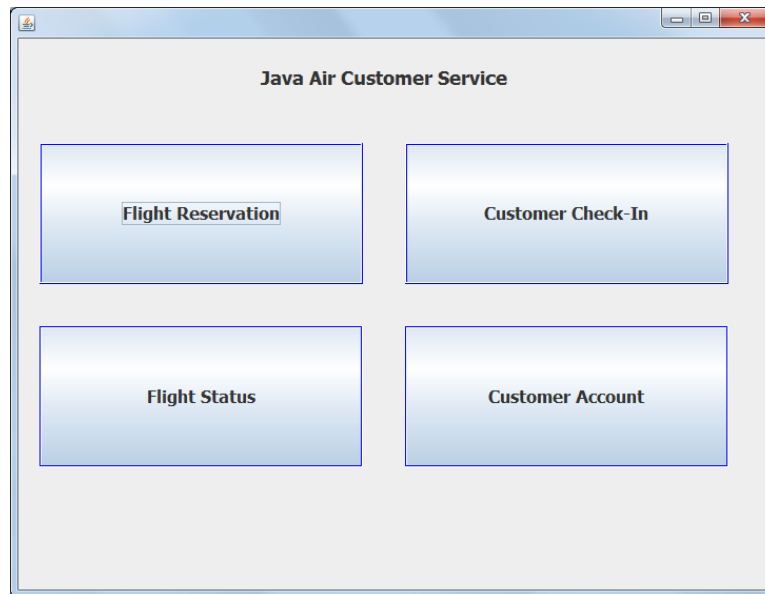


step4 : Input the employee ID to the part that you want.

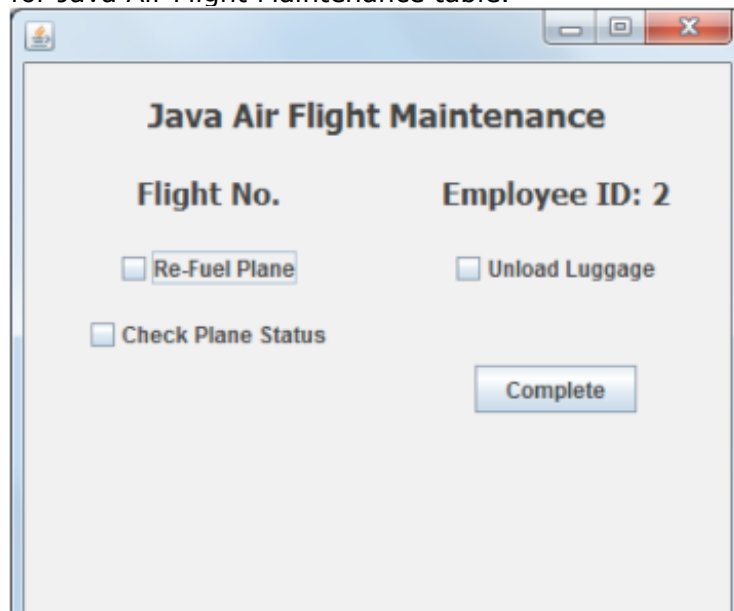
Step5 : Confirm the employee ID and click on Login button.



step6 : Employee ID 1 for customer service window.



step7 : Employee ID 2 for Java Air Flight Maintenance table.



## **15. APPENDICES**

---

### **15.1 APPENDIX A: JAVA JDK 8 INSTALLATION**

Oracle® Owns and Maintains the Java and the Java JDK.

Go to: <http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html> to download the current JDK.

Oracle® has also published documentation about how to install the JDK. You can find the document at [http://docs.oracle.com/javase/8/docs/technotes/guides/install/install\\_overview.html](http://docs.oracle.com/javase/8/docs/technotes/guides/install/install_overview.html).