



# Yalla Zou Tara Travels

Ying Luo, Jawad Swed, Donavie Ordonez  
CPSC 362  
May 6, 2020

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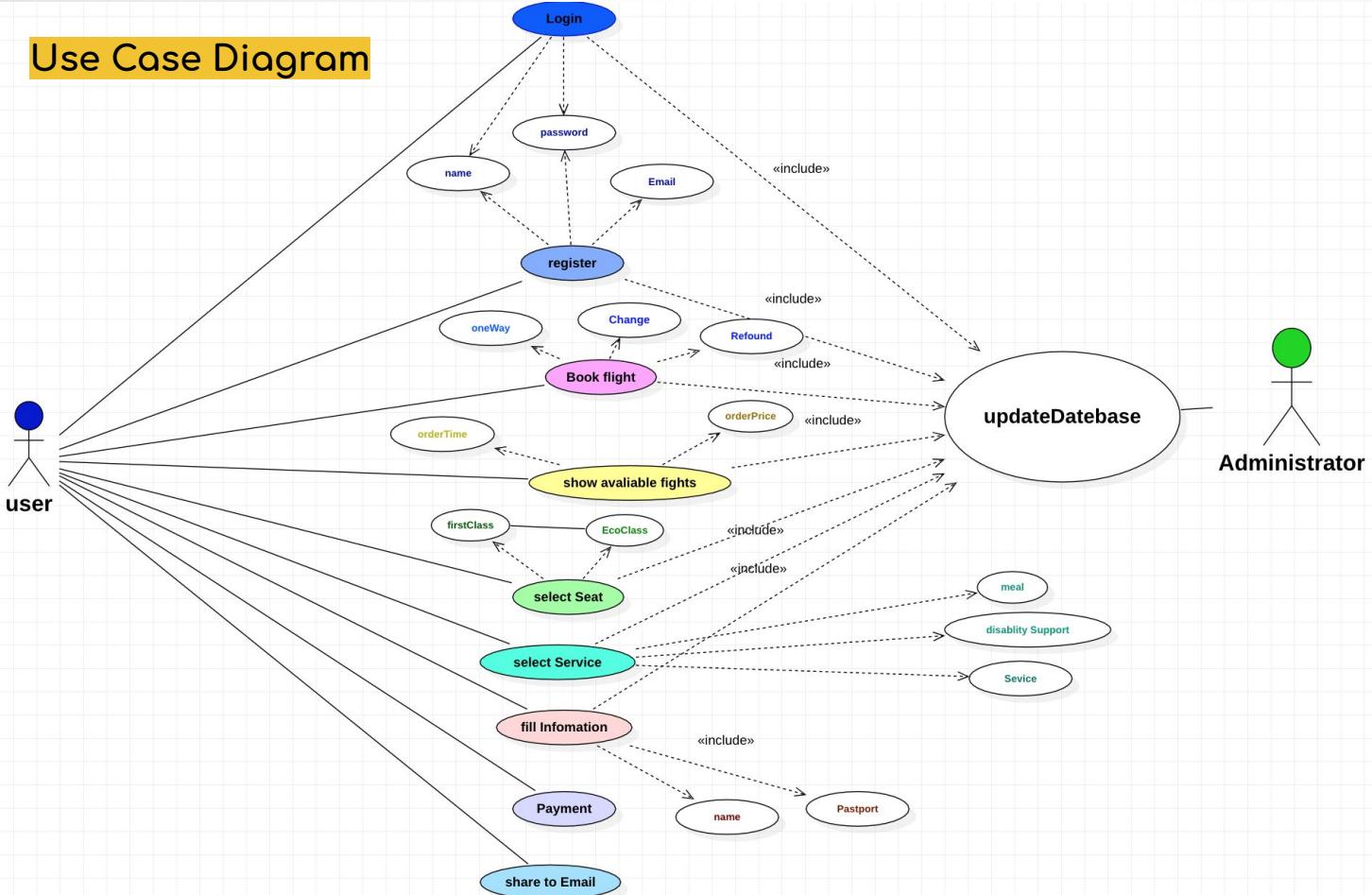
# Project Description

Yalla Zou Tara Travels is a flight booking system allowing users to book flight tickets and retrieve flight related information.

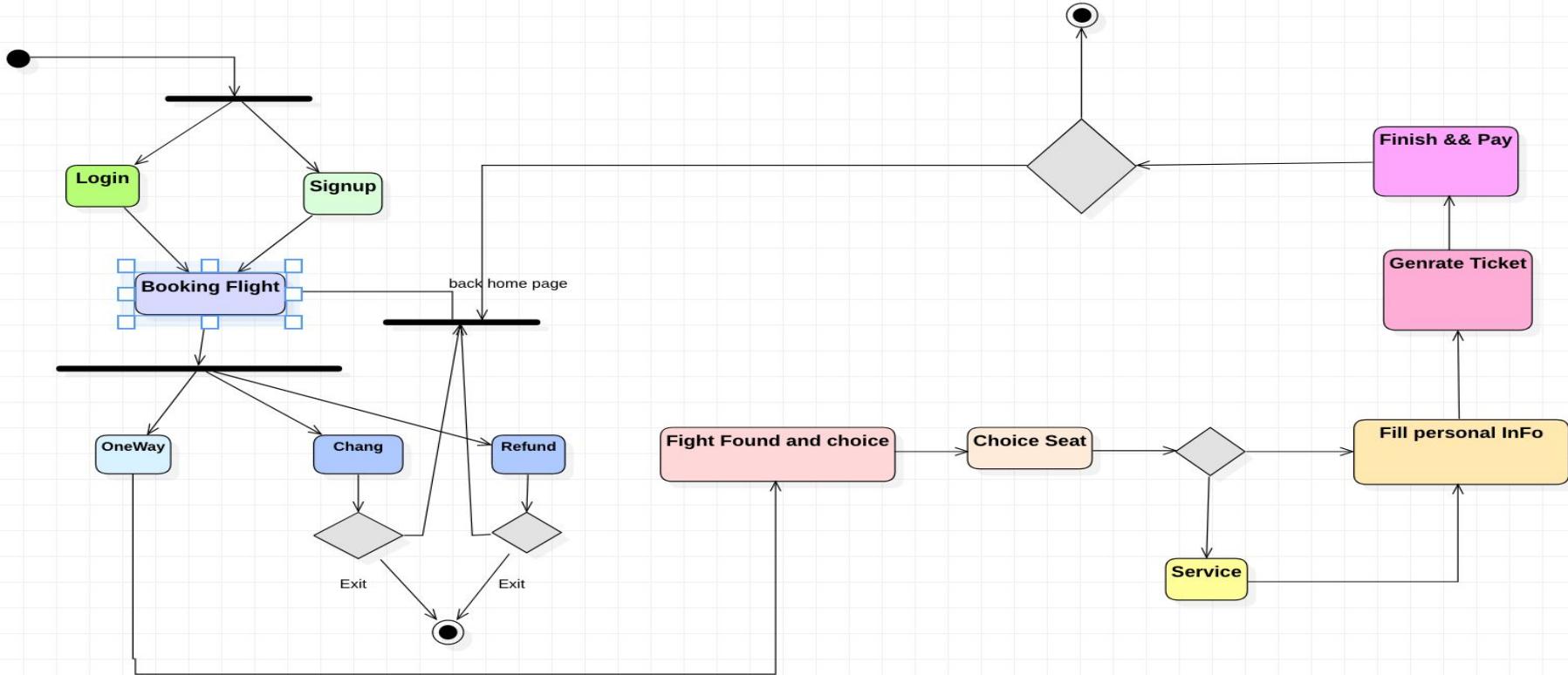
After the past 2 months, we were successful in completing the following:

- 1) User system for login
- 2) Ticket booking
- 3) Flight service reservation
- 4) Weather Information
- 5) Email notification for booked tickets
- 6) Database for retrieving user information, booked tickets and reserved service information

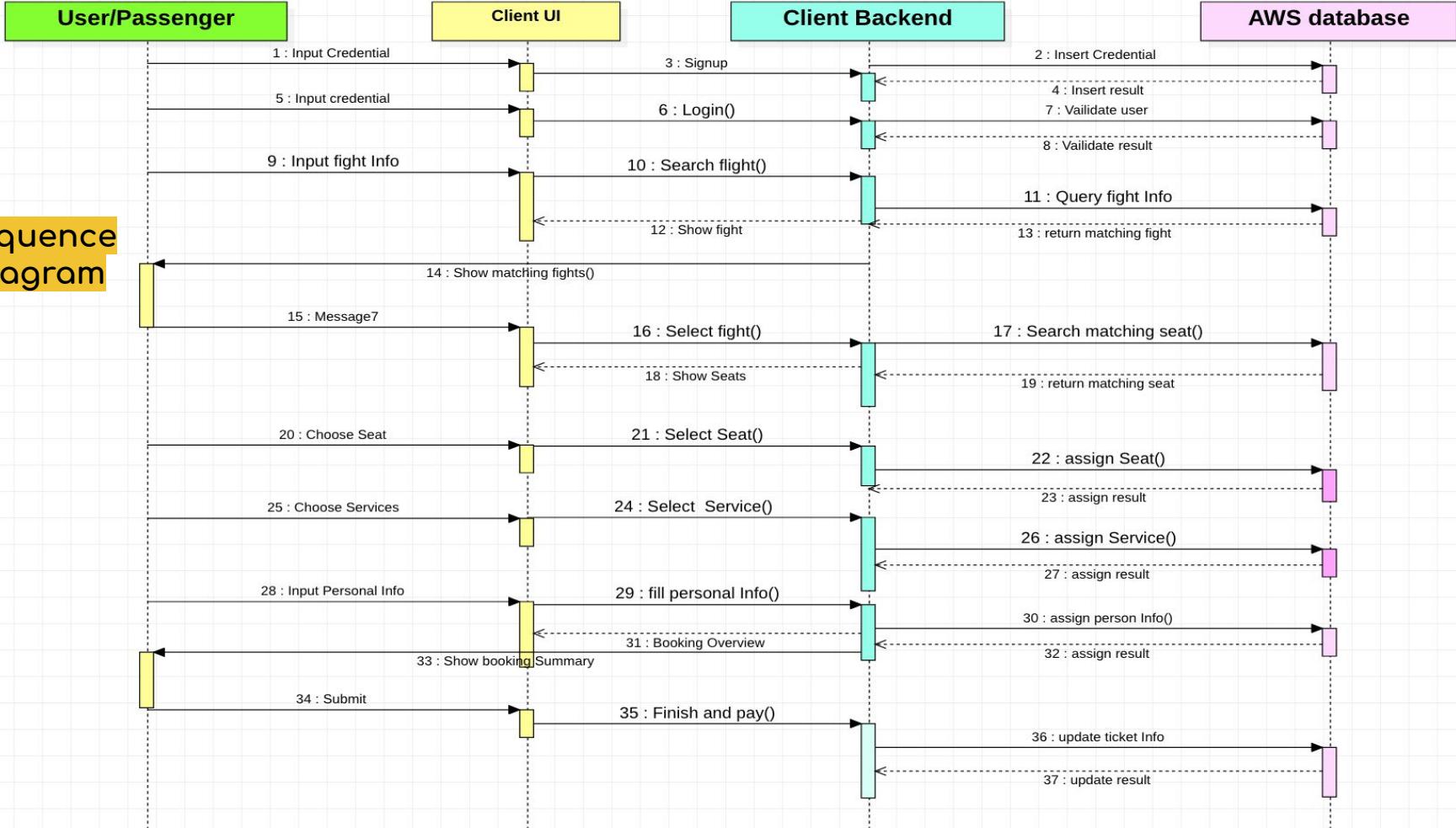
## Use Case Diagram



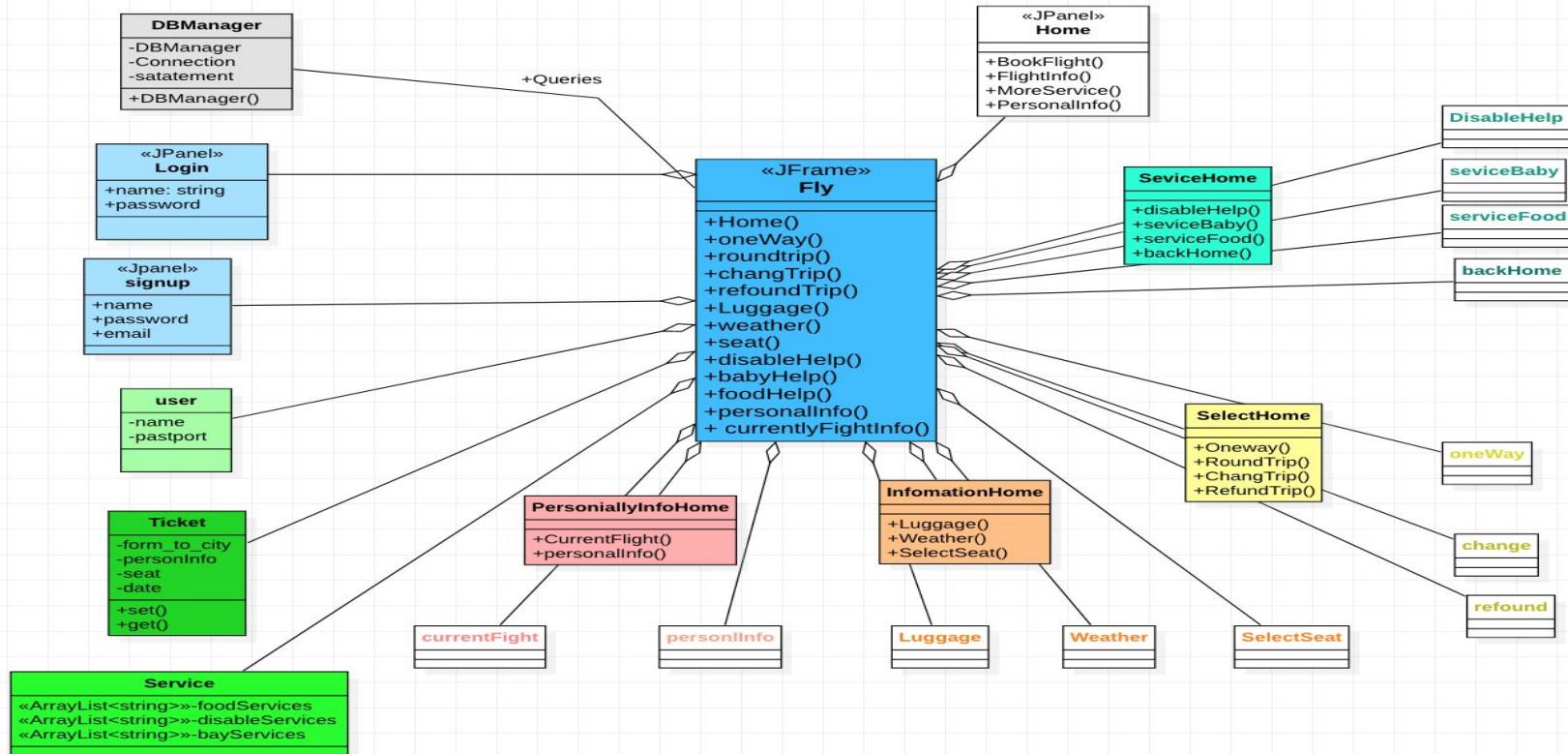
## Activity Diagram



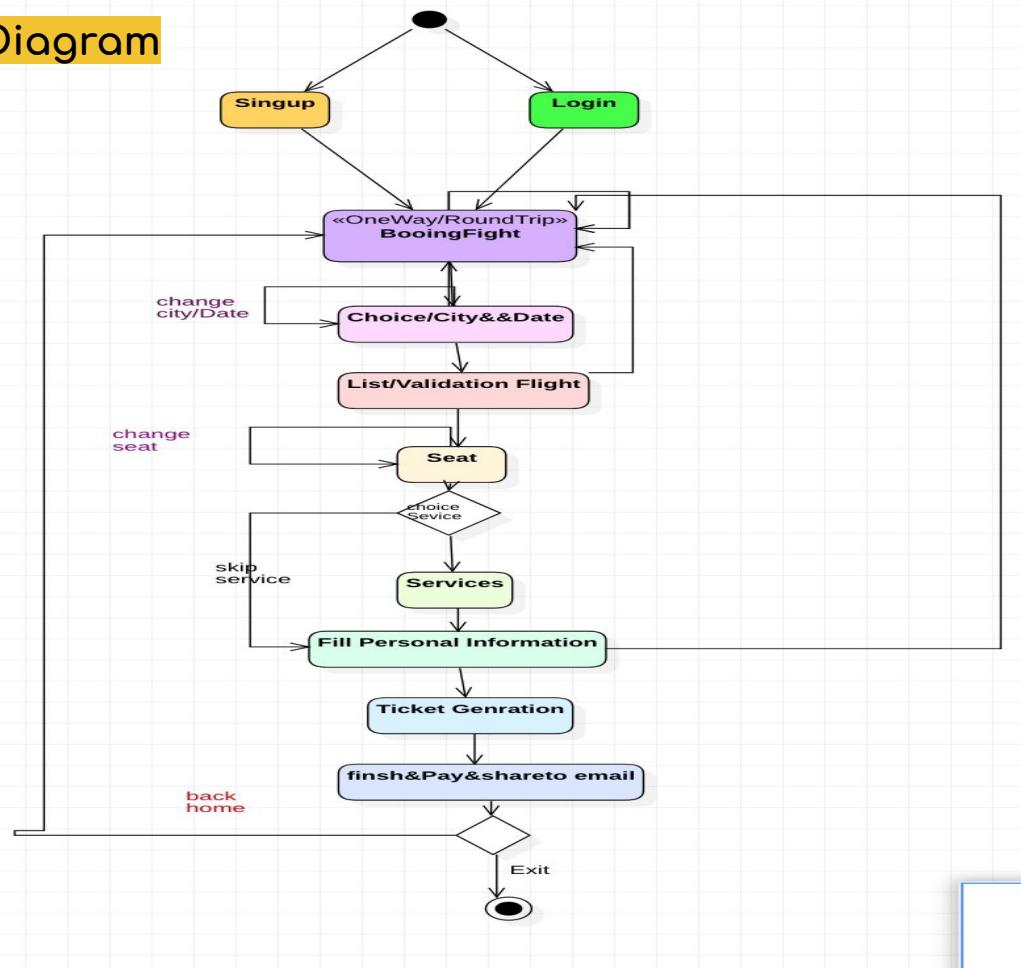
## Sequence Diagram



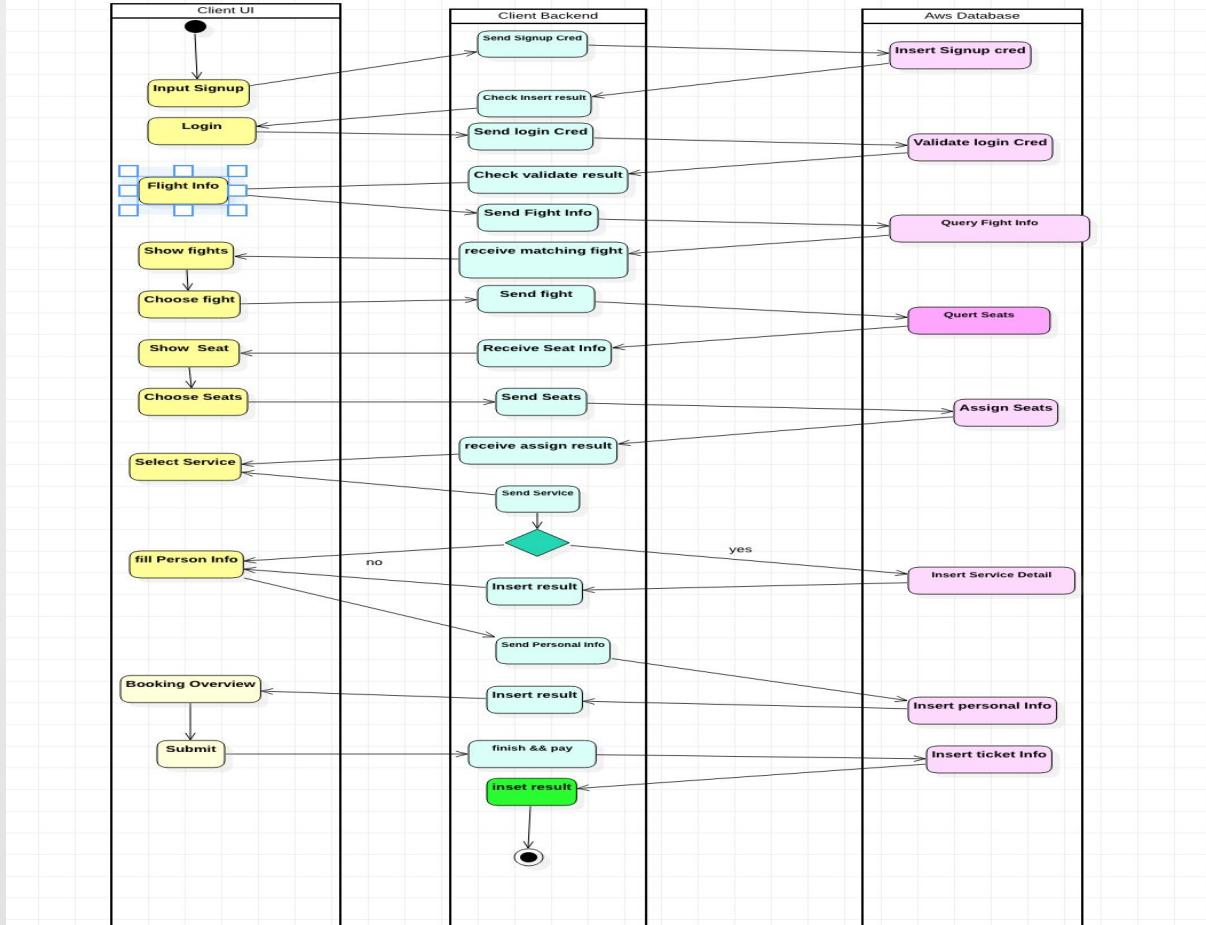
# Class Diagram



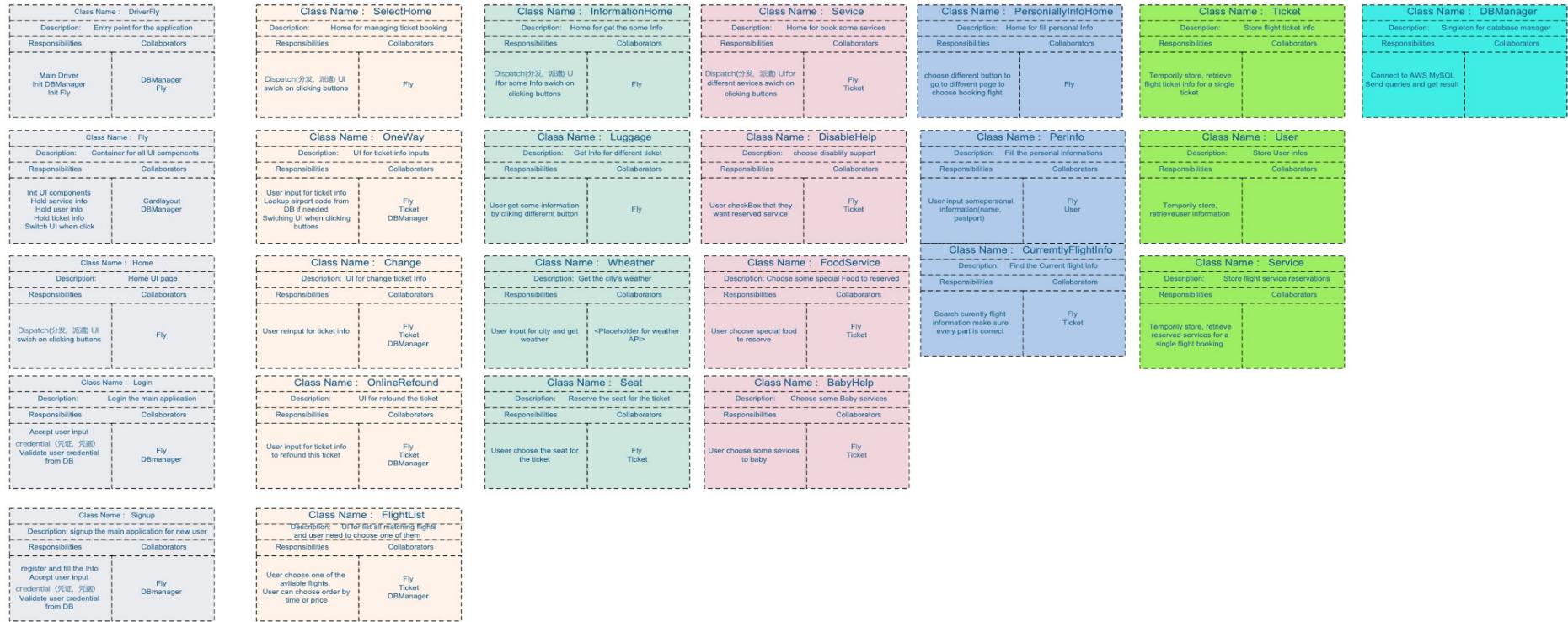
## State Chart Diagram



# Swimlane Diagram



# CRC Cards





# Ying

Database



# Donavie

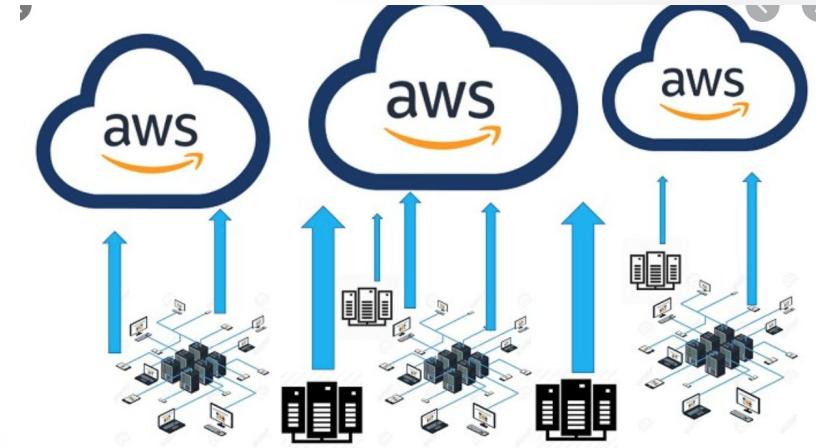
Email



# Jawad

Weather

# Database



The main Language is Java



Database is a remote  
MySQL on AWS

# JDBC connect AWS database

```
final private String host = "ec2-52-14-56-213.us-east-2.compute.amazonaws.com:3306/flight_booking_system";
final private String user = "root";
final private String passwd = "CPSC362!";

private DBManager() {
    try {
        connect = DriverManager.getConnection("jdbc:mysql://" + host, user, passwd );
    } catch (SQLException e) {
        System.out.println("Error: Failed to connect db on AWS ec2.");
    }
}
```

## Database

```
[mysql]> show databases;  
+-----+  
| Database |  
+-----+  
| information_schema |  
| flight_booking_system |  
| mysql |  
| performance_schema |  
+-----+  
4 rows in set (0.00 sec)
```

## All Tables

```
[mysql]> show tables;  
+-----+  
| Tables_in_flight_booking_system |  
+-----+  
| Airport_Info |  
| Booking_Info |  
| Flight_Info |  
| user_info |  
+-----+  
4 rows in set (0.00 sec)
```

## Table Airport information

```
[mysql] > select * from Airport_Info;
+-----+-----+-----+
| City_Name | Airport_Name | Airport_Code |
+-----+-----+-----+
| Seattle | Seattle Tocoma International Airport | ATL |
| Atlanta | Hartsfield Jackson Atlanta International Airport | BOS |
| Boston | General Edward Lawrence Logan International Airport | DEN |
| Denver | Denver International Airport | HNL |
| Honolulu | Honolulu International Airport | IAD |
| Washington | Washington Dulles International Airport | IAH |
| Houston | George Bush Intercontinental Houston Airport International Airport | JFK |
| New York | John F Kennedy International Airport | LAS |
| Las Vegas | McCarran International Airport | LAX |
| Los Angeles | Los Angeles International Airport | MIA |
| Miami | Miami International Airport | OAK |
| Oakland | Metropolitan Oakland International Airport | ORD |
| Chicago | Chicago O'hare International Airport | PDX |
| Portland | Portland International Airport | PHL |
| Philadelphia | Philadelphia International Airport | SAN |
| San Diego | San Diego International Airport | SEA |
| Seattle | Seattle-Tacoma International Airport | SFO |
| San Francisco | San Francisco International Airport | SJC |
| San Jose | Norman Y. Mineta San Jose International Airport |          |
+-----+-----+-----+
19 rows in set (0.00 sec)
```

## Table flight information

```
mysql> select * from Flight_Info;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| Flight_ID | Depart_Airport | Arrive_Airport | Flight | Depart_Date | Depart_Time | Arrive_Date | Arrive_Time | Price | Aircompany |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
|      1 | LAX           | SEA          | CA985  | 2020-04-11 | 2020-04-11 12:00:00 | 2020-04-11 | 2020-04-11 15:10:00 |    179 | Alaska       |
|      2 | LAX           | SEA          | CA975  | 2020-04-11 | 2020-04-11 12:00:00 | 2020-04-11 | 2020-04-11 15:10:00 |    155 | Air China    |
|      3 | LAX           | SEA          | DL125  | 2020-04-11 | 2020-04-11 12:00:00 | 2020-04-11 | 2020-04-11 15:10:00 |    149 | Delta        |
|      4 | LAX           | SEA          | UA155  | 2020-04-11 | 2020-04-11 12:00:00 | 2020-04-11 | 2020-04-11 15:10:00 |    149 | United Airlanes |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```

File Select Information Service personal

Welcome

Yalla Zou Tara Travels Login

Username--->>>

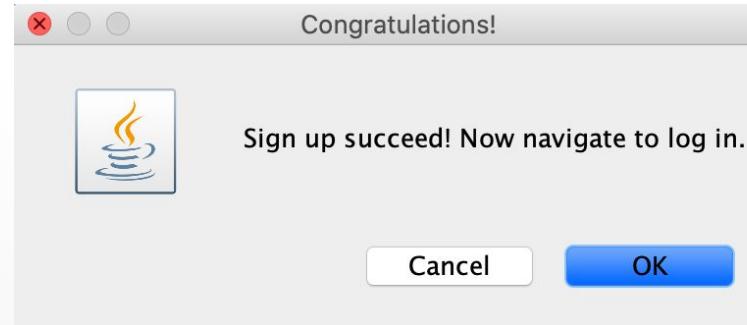
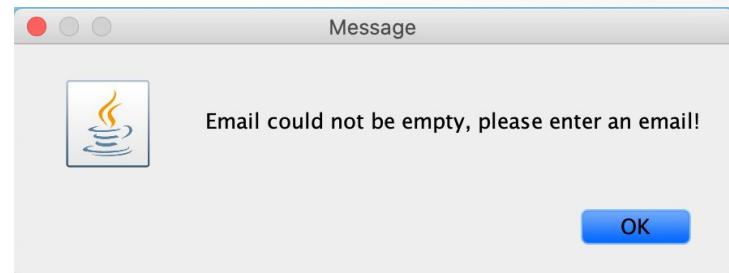
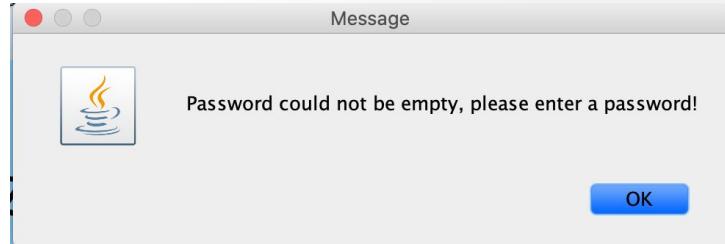
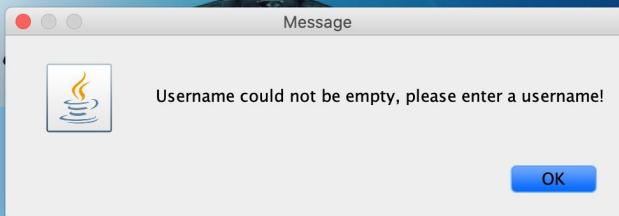
Password--->>>

Login

Signup

Ying Luo, Jawad Swed, Donavie Oldopez

CPSC 362



Welcome to



## Yalla Zou Tara Travels Login

**Username---->>>**

用户名  
نام کاربری

Heart

**Password---->>>**

密码  
کلمه عبور

\*\*\*\*\*|

**Login**

**Signup**

وارد شدن  
登錄

ثبت نام  
注册

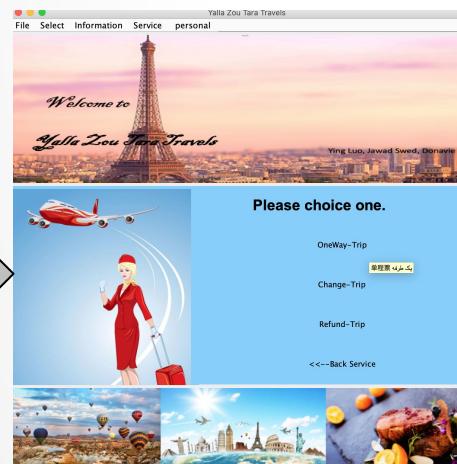
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CPSC 362



```
mysql> select *from user_info ;
```

user_id	user_name	pass	email
1	myName0	test0	test0@gmail.com
2	myName1	test1	test1@gmail.com
3	myName2	test2	test2@gmail.com
4	myName3	test3	test3@gmail.com
5	YingLuo	YingLuo	YingLuo@csu.fullerton.edu
6	donavielove	donavielove	donavielove@csu.fullerton.edu
7	jawa	jawa	jawa@csu.fullerton.edu
8	YingLuo_holiday	YingLuo_holiday	YingLuo_holiday@csu.fullerton.edu
9	YingLuo1	YingLuo1	YingLuo1@gmail.com
10	dlove	dlove	donavieordonez@gmail.com
11	dloveo	dloveo	donavieloveordonez@gmail.com
12	XinShi	XinShi	testXinShi@gmail.com
13	Heart	Heart123	xiaoluozil111@gmail.com
14	Heart	Heart	xiaoluozil111@gmail.com



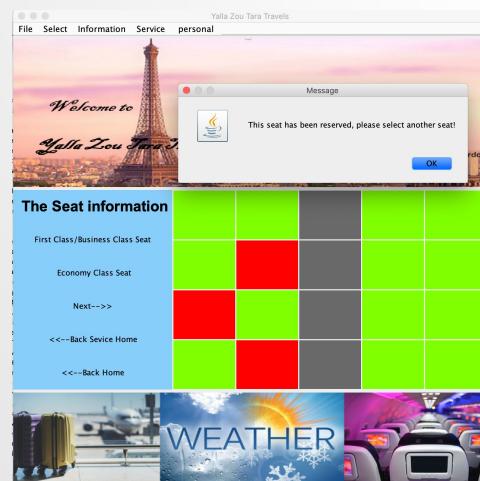
Please Enter from City/Airport and arrival City/Airport

From*	LAX
To*	SEA

5 6 2020

<<--Back Home <<--Back Select Next-->

A large grey arrow points from the second screen to this one.

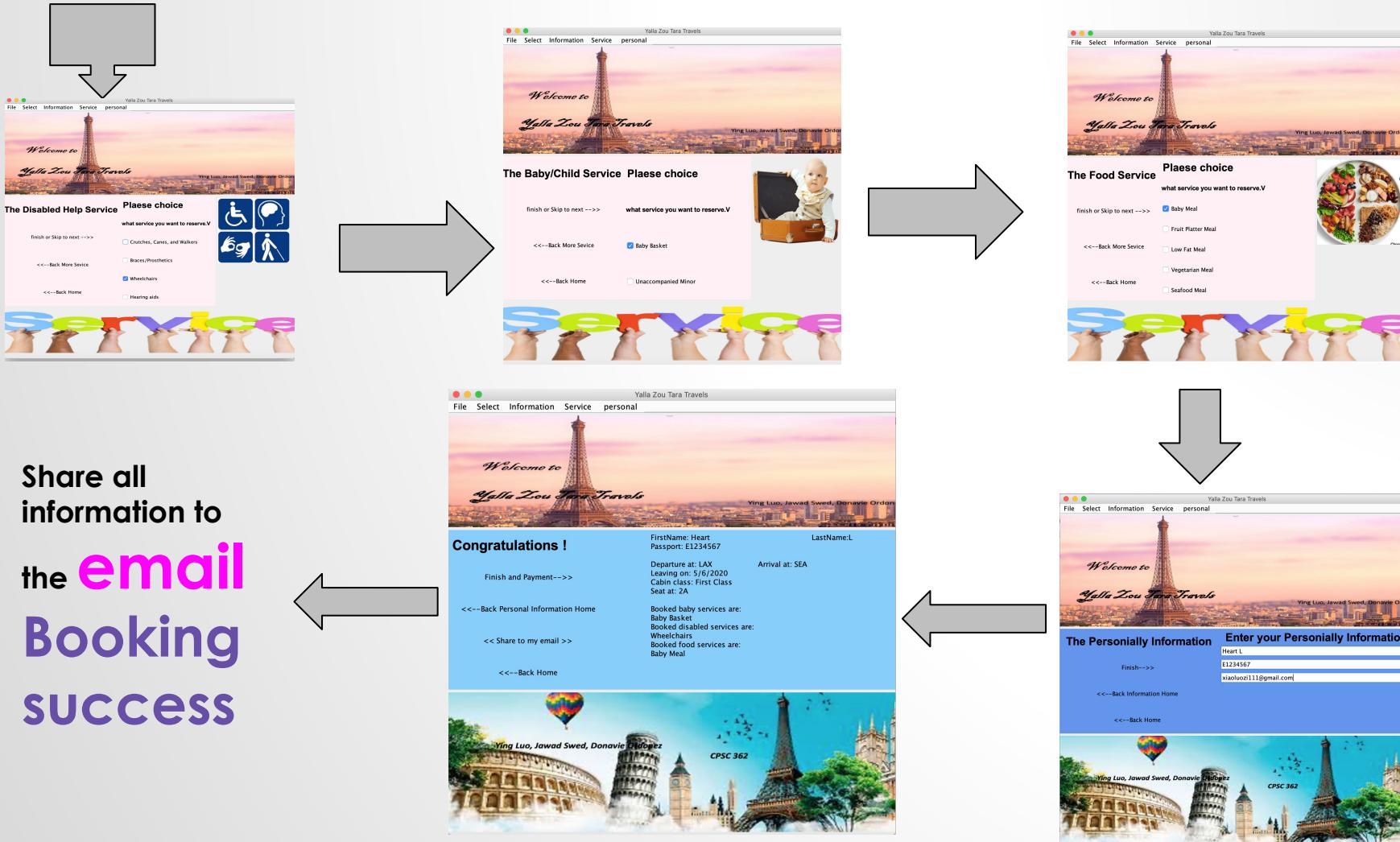


Please choice

Flight Number	Price(\$)	Air Company
C985	179.0	Alaska
C975	155.0	Air China
DL125	149.0	Delta
UA155	149.0	United Airlines

Next--> <<-- Back Home

A large grey arrow points from the fourth screen to this one.



Aircompany	Seat	Passenger_Name	Passenger_Passport	Passenger_Email	Depart_Airport	Arrive_Airport	Flight	Depart_Date	Depart_Time	Arrive_Date	Arrive_Time	Price
N/A	First Class 3.0	Ying Luo	E987654321	xiaoluozil11@gmail.com	LAX	SEA	N/A	2019-01-02	2019-01-01 00:00:00	2019-01-01	2019-01-01 00:00:00	0
N/A	E123	Xin Shi		N/A	N/A	SEA	N/A	2019-02-03	2019-01-01 00:00:00	2019-01-01	2019-01-01 00:00:00	0
Alaska	First Class 2.1	Baby Meal	E987654321	test@gmail.com	LAX	SEA	CA985	2019-03-01	2019-01-01 00:00:00	2019-01-01	2019-01-01 00:00:00	179
Alaska	First Class 2.0	Fruit Platter Meal	E987654321	xiaoluozil11@gmail.com	LAX	SEA	CA985	2019-01-02	2019-01-01 00:00:00	2019-01-01	2019-01-01 00:00:00	179
Alaska	First Class 3.1	Ying Luo	E987654321	xiaoluozil11@gmail.com	LAX	SEA	CA985	2019-01-02	2019-01-01 00:00:00	2019-01-01	2019-01-01 00:00:00	179
Delta	First Class 2.1	Donavie Ordonez	E987654321	donavieordonez@gmail.com	LAX	SEA	DL125	2019-01-02	2019-01-01 00:00:00	2019-01-01	2019-01-01 00:00:00	149
Delta	Fruit Platter Meal	E987654321	E1234567	xiaoluozil11@gmail.com	LAX	SEA	DL125	2019-01-02	2019-01-01 00:00:00	2019-01-01	2019-01-01 00:00:00	149
United	First Class 0.1	Low Fat Meal	E987654321	xiaoluozil11@gmail.com	LAX	SEA	UA155	2020-05-06	2019-01-01 00:00:00	2019-01-01	2019-01-01 00:00:00	149
United	First Class 1.0	Heart L	E1234567	Baby Basket	Wheelchairs	SEA						

## Cancel flight

Online Refund

Enter Name,Ticket number and Date agina

Ticket to cancel

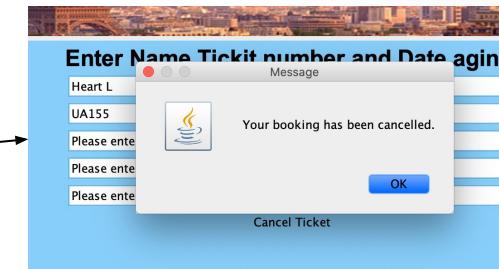
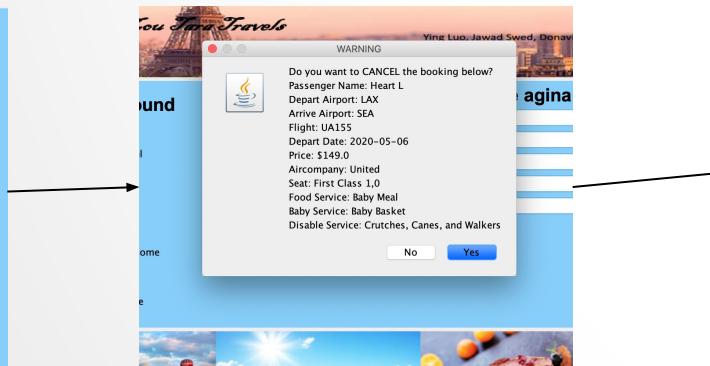
Heart L  
UA155  
Please enter the month  
Please enter the day  
Please enter the year

Submit

Cancel Ticket

<<--Back Sevice Home

<<--Back Home



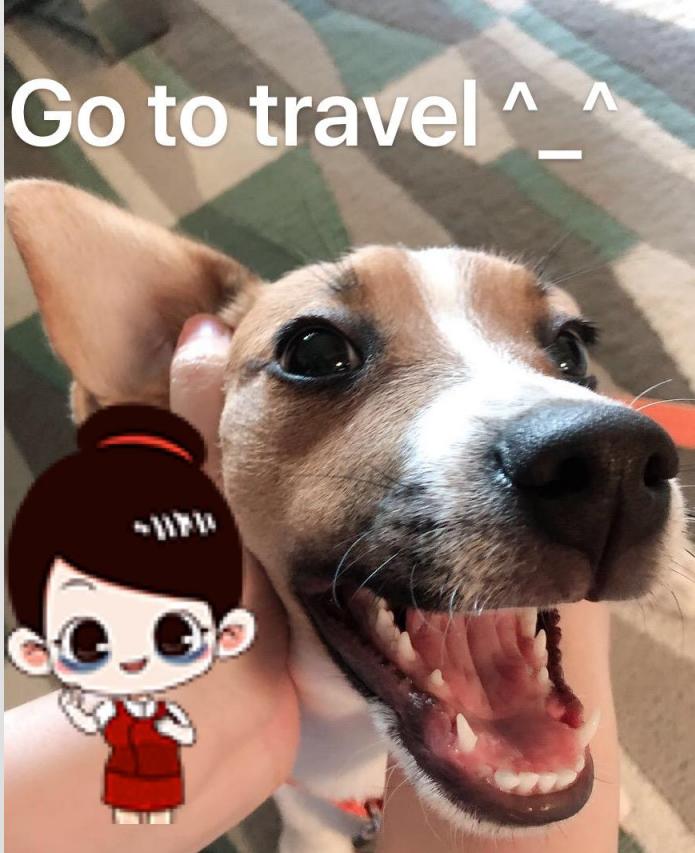
Booking_ID	Passenger_Name	Passenger_Passport	Passenger_Email	Depart_Airport	Arrive_Airport	Flight	Depa					
24	Ying Luo	E987654321	xiaoluozil11@gmail.com	LAX	SEA	N/A	2019					
28	Xin Shi	E123	test@gmail.com	LAX	SEA	N/A	2019					
31	Ying Luo	E987654321	xiaoluozil11@gmail.com	LAX	SEA	CA985	2019					
32	Ying Luo	E987654321	xiaoluozil11@gmail.com	LAX	SEA	CA985	2019					
33	Donavie Ordonez	E987654321	donavieordonez@gmail.com	LAX	SEA	CA985	2019					
34	Ying Luo	E987654321	xiaoluozil11@gmail.com	LAX	SEA	DL125	2019					
35	Ying Luo	E987654321	xiaoluozil11@gmail.com	LAX	SEA	DL125	2019					



**Demo Link**

<https://www.youtube.com/watch?v=Jk2eHawTEj4&feature=youtu.be>

## Example 1 of Email Confirmation



yallazoutaratravels@gmail.com  
发送至 我 ▾  
文 A 英语 ▾ > 中文 ▾ 翻译邮件

...

Hello, This is your flight ticket confirmation:

FirstName: Heart LastName:L  
Passport: E1234567

Departure at: LAX Arrival at: SEA  
Leaving on: 5/6/2020  
Cabin class: First Class  
Seat at: 2A

Booked baby services are:  
Baby Basket

Booked disabled services are:  
Crutches, Canes, and Walkers

Booked food services are:  
Baby Meal

Thanks for booking with us!

# Example 2 of Email Confirmation

Please Enter Departing City/Airport and Arrivi..

From\* & To\*

SD <<----->> SEA

Departure Return

7 7  
5 9  
2020 2020

<<Back Home <<Back Select Next-->

Welcome to Yalla Zou Tara Travels Ying Luo, Jawad Swed, Donavie Ordona

The Seat Information

First Class/Business Class Seat				
Economy Class Seat				
Next-->				
<<Back Service Home				
<<Back Home				

WEATHER

Service

The Disabled Help Service Please Select a S...

Finish or Skip to next -->

<<Back More Service

<<Back Home

What service do you want to re...  
 Crutches, Canes, and Walkers  
 Braces/Prosthetics  
 Wheelchairs  
 Hearing aids

Service

The Baby/Child Service Please Select

Finish or Skip to Next -->

<<Back More Service

<<Back Home

What Service Do You Need To Res...  
 Baby Basket  
 Unaccompanied Minor

Service

Welcome to Yalla Zou Tara Travels Ying Luo, Jawad Swed, Donavie Ordona

The Food Service Please Select One

Which food platter would you like to reserve?

Finish or Skip to next -->  
 Baby Meal  
 Fruit Platter Meal  
 Low Fat Meal  
 Vegetarian Meal  
 Seafood Meal

<<Back More Service

<<Back Home

Congratulations !

Finish and Payment-->

Departure at: SD Arrive at: SEA  
Leaving on: 7/9/2020  
Return from: SEA  
Return on: 7/9/2020  
Cabin class: First Class  
Seat at: 4A

Lastname: Ordona  
Firstname: Donavie  
Passport: A2345678

Booked baby services are:  
Unaccompanied Child  
Booked medical services are:  
Wheelchairs  
Booked food services are:  
Seafood Meal

Service

Welcome to Yalla Zou Tara Travels Ying Luo, Jawad Swed, Donavie Ordona

Congratulations !

Finish and Payment-->

Departure at: SD Arrive at: SEA  
Leaving on: 7/9/2020

Message  
Your booking information has been send to donavieordona@gmail.com

OK

<<Back Personal Info

<<Share to my email

<<Back Home

Service

## **Yalla Zou Tara Travels Ticket Confirmation**



**yallazoutaratravels@gmail.com <yallazoutaratravels@gmail.com>**

10:05 PM

To: donavieordonez@gmail.com

Hello, This is your flight ticket confirmation:

FirstName: Donavie      LastName:Ordonez  
Passport: A2345678

Departure at: SD      Arrival at: SEA

Leaving on: 7/5/2020

Return from: SEA      Return at: SD

Return on: 7/9/2020

Cabin class: First Class

Seat at: 4A

Booked baby services are:

Unaccompanied Child

Booked disabled services are:

Wheelchairs

Booked food services are:

Seafood Meal

Thanks for booking with us!

File Select Information Service personal

Luggage  
Weather  
Seat

# Weather

Welcome to



*Yalla Zou Tara Travels*

**Book a Flight**

**Personal Information**



~Welcome To Holiday Air Company~

## The Weather Information

Enter the city again

Getting the Weather

<<--Back Information Home

<<--Back Home

## Enter City and Date again

Fullerton

5

6

2020



# Get the Weather

Yalla Zou Tara Travels

File Select Information Service personal



## The Weather Information

Enter City and Date agina

Getting the Weather

<<--Back Information Home

Current weather in Fullerton: Clear  
Current temperature: 65.46 degrees  
Current Humidity: 68.0%

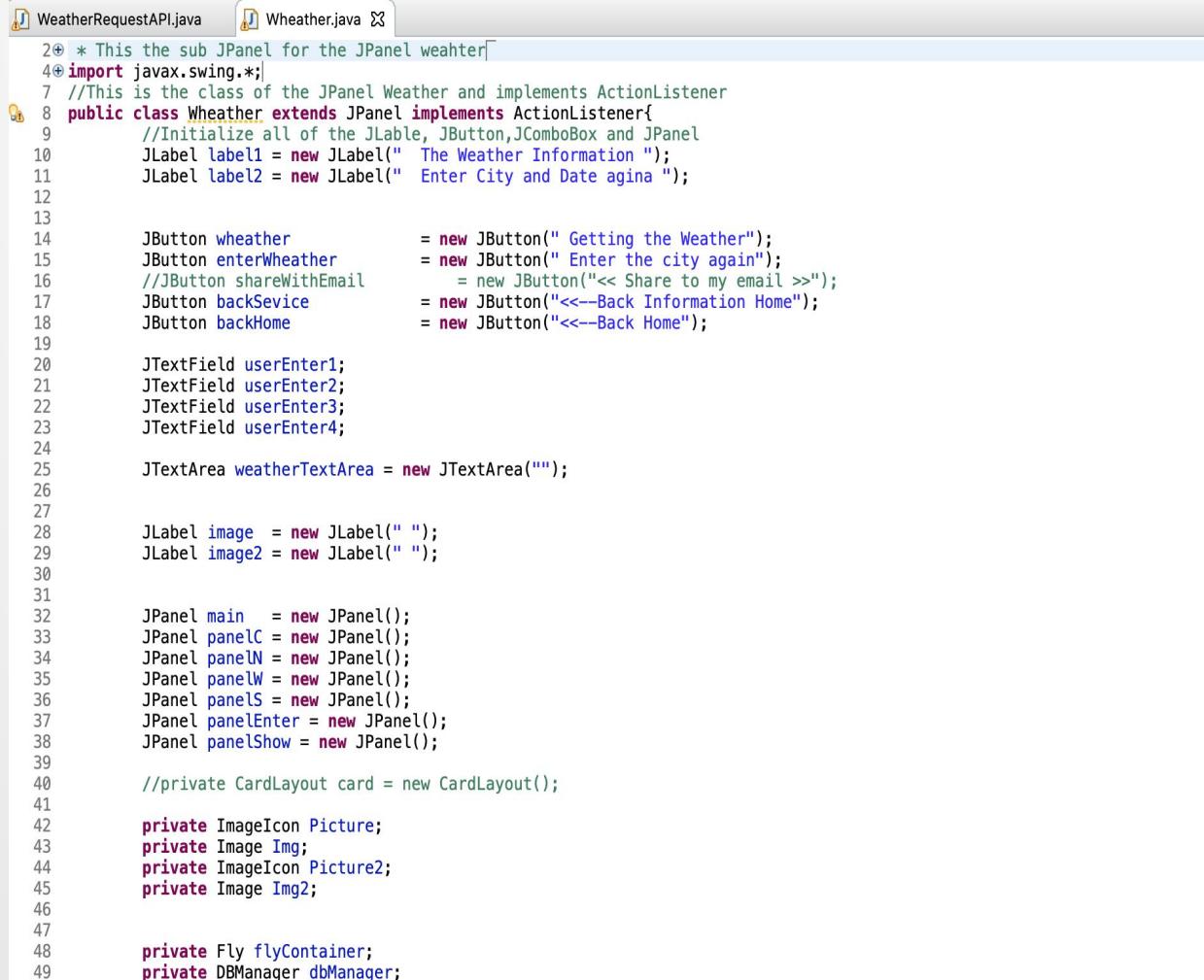
<<--Back Home



# API Part

```
WeatherRequestAPI.java
1+import java.io.BufferedReader;
2
3
4
5
6  public class WeatherRequestAPI {
7      private static String API_KEY = "79b1e5c955fca00689bf8feb0e50b2b4";
8
9      private static Map<String, Object> jsonToMap(String str){
10         Map<String, Object> map= new Gson().fromJson(
11             str, new TypeToken<HashMap<String, Object>>(){}.getType());
12         return map;
13     }
14
15
16     public static String getCityWeatherInfo(String city) {
17         StringBuilder weatherInfo = new StringBuilder();
18         String urlString = "http://api.openweathermap.org/data/2.5/weather?q=" + city + "&appid=" + WeatherRequestAPI.API_KEY + "&units=imperial";
19
20         try {
21             StringBuilder result = new StringBuilder();
22             URL url = new URL(urlString);
23            URLConnection conn = url.openConnection();
24             BufferedReader rd = new BufferedReader (new InputStreamReader(conn.getInputStream()));
25             String line;
26             while ((line = rd.readLine()) != null )
27             {
28                 result.append(line);
29             }
30             rd.close();
31
32             Map<String, Object> respMap = jsonToMap (result.toString());
33             List<Object> weatherList = (List<Object>)respMap.get("weather");
34             String weatherListStr = weatherList.get(0).toString();
35
36             String[] weatherEntries = weatherListStr.substring(1, weatherListStr.length() - 1).split(",");
37             String weatherStr = "";
38             for (String e : weatherEntries) {
39                 String[] entry = e.trim().split("=");
40                 if (entry[0].equals("main")) {
41                     weatherStr = entry[1];
42                 }
43             }
44
45             Map<String, Object> mainMap = jsonToMap(respMap.get("main").toString());
46
47             weatherInfo.append("Current weather in " + city+ ": " + weatherStr + "\n");
48             weatherInfo.append("Current temperature: " + mainMap.get("temp") + " degrees\n");
49
50
51
52
53
54
55
56
57
```

# UI Part



```
2④ * This the sub JPanel for the JPanel weahter
3④ import javax.swing.*;
4④
5 //This is the class of the JPanel Weather and implements ActionListener
6 public class Wheather extends JPanel implements ActionListener{
7     //Initialize all of the JLabel, JButton,JComboBox and JPanel
8     JLabel label1 = new JLabel(" The Weather Information ");
9     JLabel label2 = new JLabel(" Enter City and Date agina ");
10
11
12
13
14     JButton wheather           = new JButton(" Getting the Weather");
15     JButton enterWheather      = new JButton(" Enter the city again");
16     JButton shareWithEmail    = new JButton("<< Share to my email >>");
17     JButton backSevice        = new JButton("<<-Back Information Home");
18     JButton backHome          = new JButton("<<-Back Home");
19
20
21
22
23
24
25     JTextField userEnter1;
26     JTextField userEnter2;
27     JTextField userEnter3;
28     JTextField userEnter4;
29
30
31
32     JPanel main   = new JPanel();
33     JPanel panelC = new JPanel();
34     JPanel panelN = new JPanel();
35     JPanel panelW = new JPanel();
36     JPanel panels = new JPanel();
37     JPanel panelEnter = new JPanel();
38     JPanel panelShow = new JPanel();
39
40     //private CardLayout card = new CardLayout();
41
42     private ImageIcon Picture;
43     private Image Img;
44     private ImageIcon Picture2;
45     private Image Img2;
46
47
48     private Fly flyContainer;
49     private DBManager dbManager;
```

A	B	C	D	E	F
Test Case ID	Test Case Category	Tester's Name	Date Tested	Test Result	Test Description
1	Application UI	Ying Luo	1-May-20	Pass	User should be able to login and switch to main UI
2	Application UI	Ying Luo	1-May-20	Pass	User should be able to signup and switch to user login after signup successfully
3	Application UI	Ying Luo	1-May-20	Pass	Password hidden, the inputed password should be replaced to '*' for security
4	Application UI	Ying Luo	1-May-20	Pass	Main UI should be able to switching to other related UI
5	Application UI	Ying Luo	1-May-20	Pass	Book flight UI should be able to switching to other related UI
6	Application UI	Ying Luo	1-May-20	Pass	Oneway-trip UI should be able to switching to other related UI
7	Application UI	Ying Luo	1-May-20	Pass	Refund-trip UI should be able to switching to other related UI
8	Application UI	Ying Luo	1-May-20	Pass	Available flight list UI should be able to switching to other related UI
9	Application UI	Ying Luo	1-May-20	Pass	Seat selection UI should be able to switching to other related UI
10	Application UI	Ying Luo	1-May-20	Pass	Disabled service UI should be able to switching to other related UI
11	Application UI	Ying Luo	1-May-20	Pass	Child service UI should be able to switching to other related UI
12	Application UI	Ying Luo	1-May-20	Pass	Food service UI should be able to switching to other related UI
13	Application UI	Ying Luo	1-May-20	Pass	Personal information UI should be able to switching to other related UI
14	Application UI	Ying Luo	1-May-20	Pass	Booking information UI should be able to switching to other related UI
15	Application UI	Ying Luo	1-May-20	Pass	Weather information UI should be able to switching to other related UI
16	Database	Ying Luo	1-May-20	Pass	Connection should be successful to remote MySQL database on AWS
17	Database	Ying Luo	1-May-20	Pass	Insert user info to database when signup should be successful
18	Database	Ying Luo	1-May-20	Pass	Query user info from database when login should be successful
19	Database	Ying Luo	1-May-20	Pass	Query airport to city name from database should be successful
20	Database	Ying Luo	1-May-20	Pass	Query city name to airport from database should be successful
21	Database	Ying Luo	1-May-20	Pass	Query flight information from database should be successful
22	Database	Ying Luo	1-May-20	Pass	Insert booking information to database should be successful
23	Database	Ying Luo	1-May-20	Pass	Query booking information from database should be successful
24	Database	Ying Luo	1-May-20	Pass	Delete booking information from database should be successful
25	Database	Ying Luo	1-May-20	Pass	Query reserved seats for a flight from database should be successful
26	Seat Selection	Ying Luo	1-May-20	Pass	Separated seat selection for first class and economy class
27	Seat Selection	Ying Luo	1-May-20	Pass	Show reserved seats for a flight and disable selection of those seats
28	Seat Selection	Ying Luo	1-May-20	Pass	When select a reserved seats, pop up notification
29	Seat Selection	Ying Luo	1-May-20	Pass	Toggle color on select/unselect a seat
30	Ticketing	Ying Luo	1-May-20	Pass	Set ticket search criterial: from, to, date
31	Ticketing	Ying Luo	1-May-20	Pass	List available flights based on search criterial
32	Ticketing	Ying Luo	1-May-20	Pass	Set service reservations for ticket: disabled service, child service, food service
33	Ticketing	Ying Luo	1-May-20	Pass	Set passenger information for ticket: name, passport, email
34	Ticketing	Ying Luo	1-May-20	Pass	Show ticket information on successful booking
35	Weather	Jawad Swed	1-May-20	Pass	Input city name and get weather information
36	Email Notification	Donavie	1-May-20	Pass	Send email for a succeeded booking
37	Email Notification	Donavie	1-May-20	Pass	Send email for a cancelled booking
38	Email Notification	Donavie	1-May-20	Pass	Pop up notification on email sent successfully

**TestCase**

# Question



**GitHub Link**

[https://github.com/YingLuo111/CSUF\\_CPSC362\\_Project\\_Yalla\\_Zou\\_Tara\\_Travels.git](https://github.com/YingLuo111/CSUF_CPSC362_Project_Yalla_Zou_Tara_Travels.git)

Salamat   Do   감사합니다  
Dhanyavaad   شکرالاڭ   gratias  
Gracias   ありがとうございました

terima Kasih   谢謝  
tibi   Shokran   Merci  
Vielen Dank   Mahalo

# Thank You



благодарю вас   Δзякуй   teşekkür   ederim   Dankon  
tack   баярлалаа ευχαριστώ   asante   Ngiyabonga   cảm  
 ơn bạn   متشكرم   Takk skal du ha   Misaotra anao  
 ဗေဟို   Рақмет сізге   ଧନ୍ୟକାଦ   շିତରିହାଳୁଲେଜୁଲେ