

1. addAgent.html  
A page realize the 'add agent' function. The staff with admin permission will be able to click into this page and add a agent to work for their airline by providing the email of this agent in the text box.
2. addAirport.html  
A page realizes the 'add airport' function, containing some inputs where you can enter the information of new airports, and a confirm button
3. addFlightAdmin.html  
The page realizes the 'add flight' function, containing a table shows the flights information before 'add flight', some inputs where you can enter the information of new flights, and a confirm button
4. addPlane.html  
The page realizes the 'add plane' function. Users can add a plane for their own airline by inputting the plane name into a textbox and click add. The function can check if the plane already exists and will show a table of all existing planes after adding.
5. chartCus.html  
The page realizes the 'track my spending' function. A customer can view their spending in the specified range of dates. The spending of the past full year will be shown by default. The default graph will be a bar chart viewing the past 6 months. Customer can specify the range of dates by typing in the text box below.
6. grantPermission.html  
The page realizes the 'grant new permissions' function. The page allows a staff with admin permission to grant a staff in their airline new permissions of all kinds. If the staff is not admin, they will be blocked out of this page and see a notice showing: "You are not admin". The page will show a table of all staff in this airline with a radio bottom at the end of every row. The staff select the staff they want to grant new permission and select the new permission kind at the radio button below and click confirm. Then the staff will be granted new permission.
7. home.html  
This page is the page for all user to see before logged in. User that has not logged in can input the features of the flight they want to search and will be directed to search\_result page. User can also choose to login by clicking the login link, amd they will be directed to the login page. The user can also choose to register by clicking the register link, then they will be directed to the register page.
8. homeCus.html  
The page is the home page for customer. A customer can view all upcoming flight in this page by clicking the view button and purchase the corresponding ticket by selecting the radio button in the row of the flight table and click confirm.
9. homeAgt.html  
This page is the home page for agents. An agent can view flights information for which they purchased on behalf of customers by click the view my flight button. They can also search for upcoming flights based on departing airport, arriving airport, and departing time. The agent can purchase a tick for a customer by choosing the radio button in the row of the search result, typing the customer email into the text box below and click

confirm. The page also lists top 5 customers by commission and ticket numbers by a table. The user is able to log out by clicking the logout link.

10. homeStf.html

This is the homepage for staff. A staff member can view the flight operated by this company in the next 30 days by clicking the view my flight button. On this page, there are also buttons that can direct you to another page for functions: create new flight, change status of flight, add airplane, add airport, view reports, comparison of revenue earned, grant new permission, add booking agent. A staff member can also directly view the top 5 booking agents, most frequent customers, and top 3 destinations by clicking the corresponding button. The page also provides a logout link.

11. updateFlight.html

This page allows the staff with operator permission to change the status of a flight. The page will first show all the flights operated by this company with a table. This staff can change the status by choosing the radio button after the flight row and select the final status with the radio button and click the submit button.

12. ticketReports.html

The page allows the staff to view a bar chart showing monthly sold ticket number of this airline. The user should input a date range from the textbox and click view, then a bar chart will be shown.

13. revenueComparisonYear.html

The page allows the user to compare the sales of direct path and indirect path of the past year with a pie chart. The user will be represented with the total earnings of direct sales and indirect sales and their proportion. Clicking the submit button will show the corresponding pie chart.

14. revenueComparisonMonth.html

The page allows the user to compare the sales of direct path and indirect path of the past month with a pie chart. The user will be represented with the total earnings of direct sales and indirect sales and their proportion. Clicking the submit button will show the corresponding pie chart.

15. search\_result.html

This page shows the result for search of flight by an user that has not been logged in.

16. register.html

In this page, user can choose their register type from customer, agent, and staff in this page and be directed to another page by clicking the submit button.

17. registerCus.html

A customer can register in the database by inputting all the needed information into the textbox. The page will check if the customer already exists.

18. registerAgt.html

An agent can register in the database by inputting all the needed information into the textbox. The page will check if the agent already exists.

19. registerStf.html

An staff can register in the database by inputting all the needed information into the textbox. The page will check if the staff already exists. The newly registered staff will be granted the lowest permission automatically.

Division of work:

In this project, it is hard to say which work is done by which person in this team, as we encountered too many difficulties along our way of implementing the system, so both of us worked together to solve the problems.

While coding, the case is often one person writing the python code and another person writing the html code, then we test run the combined program. However, we don't have clear work of division in this project so each one of us writes both sides of the program. Most importantly, the debugging process is the most time consuming part in this project and both of us spend an immense amount of effort to alter each other's code and do test runs. This makes the division of work hard to do.

In total:

Yongying Zhou: 50%

Liyuan Geng: 50%