

Files Documentation

Technologies used

- HTML
- CSS
- Python (Flask)
- Javascript
- Bootstrap (frontend)

Files:

Registration-related files:

- styles.css: contains the styles for the div elements, including the coloring and position of the container.
- register.html: the user can choose their role and register accordingly. The information will be saved in the database.
- registerCustomer.html: The customer has the option to provide all the required information in a textbox in order to be added to the database. The system will then verify if the customer already exists before proceeding with the registration process.
- registerAgent.html: An agent can provide all the necessary information in a textbox to register in the database. The system will then check whether the agent already exists in the database before proceeding with the registration process.
- registerStaff.html: A staff member can input all the required information in a textbox to register in the database. The system will then verify whether the staff member already exists in the database before proceeding with the registration process. Once registered, the staff member will be automatically granted the lowest level of permission.

Login-related files:

- Home.html: This page is accessible to all users who have not logged in yet. On this page, users can search for flights by inputting their preferred flight features and will be directed to the search_result page. In addition, users can click on the login link to access the login page and sign in to their account. Alternatively, users can click on the

register link to access the registration page and create a new account.

- searchResult.html: This page displays the search results for flight when a user who has not logged in enters the desired search criteria.

Customer-related files:

- homeCustomer.html: This page serves as the home page for customers. Customers can view all the upcoming flights by clicking the "view" button on the page. To purchase a ticket for a particular flight, customers can select the corresponding radio button in the row of the flight table and click the "confirm" button.
- chartCustomer.html: This page provides the "track my spending" function for customers. Customers can view their spending within a specified range of dates. By default, the page displays the customer's spending for the past full year. The default graph is a bar chart that displays the customer's spending for the past 6 months. To view their spending within a specific range of dates, customers can enter the desired dates in the text box below.

Agent-related files

- homeAgent.html: This page is the home page for agents. Agents can view the flight information for which they have purchased tickets on behalf of customers by clicking the "view my flight" button. They can also search for upcoming flights by specifying the departing airport, arriving airport, and departing time. To purchase a ticket for a customer, agents can choose the radio button in the row of the search results, enter the customer's email in the text box below, and click the "confirm" button. The page also includes a table that lists the top 5 customers by commission and ticket numbers. Agents can log out by clicking the "logout" link.

Staff-related Files

- addAirport.html: This page provides the functionality to add a new airport to the system. It includes input fields where the user can enter the necessary information of the new airport, and a confirm button to submit the information and add the airport to the system.

- homeStaff.html: This is the main landing page for staff members. From here, staff can access several functions by clicking on corresponding buttons. For instance, they can view flights operated by their company within the next 30 days by clicking on the "view my flight" button. In addition, they can create new flights, change flight status, add airplanes and airports, view reports, compare revenue earned, grant new permissions, and add booking agents by clicking the corresponding buttons. Staff can also view the top 5 booking agents, most frequent customers, and top 3 destinations by clicking on the corresponding button. Finally, the page also provides a logout link for staff to safely log out of the system.
- addAgent.html: This page enables the "add agent" function, which can only be accessed by the staff with admin permission. They can add an agent to work for their airline by entering the agent's email into the provided text box.
- grantPermission.html: This page enables a staff with admin permission to grant new permissions to other staff members in their airline. If the user accessing the page is not an admin, a notice will be displayed stating, "You are not admin," and they will be unable to proceed. The page displays a table containing all staff members in the airline, with a radio button at the end of each row. The admin staff can select the staff member they want to grant new permissions to, select the new permission kind from the radio button options below the table, and click confirm. Upon confirmation, the selected staff member will be granted the new permission.
- addAirplane.html: The page allows users to add a new plane to their airline by entering the name of the plane in a text box and clicking on the "Add" button. The function checks if the plane already exists and displays a table of all existing planes after adding the new plane.
- addFlightAdmin.html: This page is used for the 'add flight' function and includes a table displaying the flight information before adding any new flights. It also includes input fields where the user can enter the details of the new flights such as the departing airport, arriving airport, departing time, and ticket price. After entering the details, the user can click the confirm button to add the new flights to the table.

- `revenueComparisonMonth.html`: This page provides the functionality to compare the sales between direct and indirect flight paths for the previous month using a pie chart. The user can input the relevant data and click the submit button to view the pie chart. The chart will display the total earnings of direct sales and indirect sales as well as the proportion of each.
- `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. Users can select the year they want to view the data for and click the submit button to generate the corresponding pie chart. The pie chart will display the total earnings of direct sales and indirect sales for the selected year, as well as the proportion of each type of sale. This information can be useful for the airline to track its revenue sources and make strategic decisions based on the data.
- `ticketReports.html`: The page allows the staff to view a bar chart showing monthly sold ticket number of this airline. The staff can select the year they want to view by choosing from a drop-down menu. The bar chart will display the monthly sold ticket number for the selected year.
- `updateFlight.html`: The 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. Then the staff can select a new status for the flight by choosing from a dropdown list of available status options. Finally, the staff can click a confirm button to save the new status. The page may also display a message to confirm the change and/or notify the staff of any errors that may have occurred.