

AIRCRAFT SCHEDULER

Our mission is to develop an aviation scheduling system that is affordable, accessible, reliable, secure, and scalable.

Goal:

To develop a reliable, scalable, and secure web system for scheduling small charter company aircraft. Compared to existing systems, our approach offers a cheaper alternative that will be user friendly and allows access by multiple users from computers across the internet.

Current Situation:




Today's competitors offer large static systems that cost tens of thousands of dollars. In addition, these systems are not updated often and can only be accessed by a limited number of users on one computer.

Navigate With Ease:

The system supports a sleek and simple navigation pane.



Add Aircraft:

-  **Basic Details**
Set the aircraft basic details such as tailnumber & type.
-  **Airspeed**
Set the aircraft average speed (kts) between distances.
-  **Fuel Burn**
Set the aircraft average hourly fuel burn (lbs).

The user adds basic and in depth information about each aircraft in their fleet.

This information is then passed on to the system to calculate important figures for the client such as average flight times and fuel burn. In this way, customers can make more informed decisions about running their charter company.

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Sun	Mon	Tue	Wed	Thu	Fri	Sat
27	28	29	30	1	2 Flight 282	3
4 Flight 282	5	6	7	8	9	10
11	12 Columbus Day	13	14	15 Flight 344	16	17
18	19	20	21	22	23	24
25 Flight 392	26	27	28	29	30	31 Halloween
1 Daylight Saving Time Ends	2	3 Election Day	4	5	6	7



Your information is secure...

Confidentiality, Integrity, and Availability (C.I.A.) of the flight department's data. Information must be guaranteed at all times.

1,000 flights or just 1...

Scalability is an important aspect of this system. That is, the application must be able to process information for both small and large flight departments.

System Calendar:

The calendar is the most important aspect of the system. This feature depicts the various flight events in multiple user views. A particular user sees the event concerning him/her. For example service staff may see the calendar with the maintenance schedule whereas pilots may see the flight schedule.



NORTHROP GRUMMAN

Engineering & Science
Student Design Showcase
at Florida Institute of Technology



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