

CSE 4101
Computer Science Projects
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Motivation

An aviation scheduling system is a tool that helps a flight department manage scheduled flights, aircraft, and employees.

Currently, the available aviation scheduling systems on the market are pricey, limited, featureless, and are fixated towards medium to large flight departments. Many of these systems are stand-alone applications that can only be accessed on one computer and in one physical location. Our objective is to develop an aviation scheduling system that is not only affordable and accessible, but reliable, secure, and scalable for years to come.

Goals

Confidentiality, integrity, and availability (C.I.A.) of the flight department's data must be guaranteed at all times. At any time a flight department must have the ability to decline service. Flight department data must be available to be backed up and printed at any time. Every user must have a unique identifier along with unique privileges throughout the system. The system must be available from any location with an Internet connection.

The system has to be scalable. Extensions to the basic system, such as Invoices and Quoting, must be able to be added with ease. Future technology has to be considered when designing the system. Emerging technologies, such as touch screens, can cause unseen complications.

Features

The planned features include, but are not limited to:

- An affordable aircraft scheduling system regardless of flight department size. Pricing must consist of the amount of jets and modules a flight department encompasses.
- Public pages that are search engine optimized and marketed.
- Tutorial videos on how to use each module of the system.
- Simplistic step-by-step instructions for flight department schedulers and users in general.
- Free public aviation tools to attract customers.
- Advanced back-end system to allow administrators and moderators assist customers.
- Billing system that automatically bills on a monthly basis.
- Advanced spanning calendar that displays flight details.
- Unlimited user accounts for a given flight department. Types of user accounts include flight department administrators, pilots, flight attendants, etc.
- Flight log system that records history of the flight department's jets.
- Charter flight departments will have the ability to add a quoting system.

Milestones

Milestone 1 (February 23, 2009)

- Requirement Document
- Design Document
- Test Plan

Milestone 2 (March 23, 2009)

- Validate selected frameworks
- Implement/Test/Demo the following features:
 - User Account System (pilots, flight attendants, etc.)
 - Flight Detail Calendar

Milestone 3 (April 27, 2009)

- Implement/Test/Demo the following features:
 - Automated Billing Module
 - Dynamic Page Help Menu Module
 - Flight Log System

Task Matrix

(Written Contribution)

	Aaron	Chris	Karishma	Jorge
Requirement Document	20%	30%	30%	20%
Design Document	40%	20%	20%	20%
Test Plan Document	25%	25%	25%	25%

Approval

"I have discussed with the team and approve this project plan. I will evaluate the progress and assign a grade for each of the three milestones."

Signature: _____ Date: _____

Dr. William Allen
Professor of Computer Sciences, Florida Institute of Technology