

Aircraft Scheduler

CSE 4101

Computer Science Projects

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Jorge Arias
jarias@fit.edu

Karishma Bhatia
kbhatia@fit.edu

Christopher Dowin
cdowin@fit.edu

Aaron Zampaglione
azampagl@fit.edu

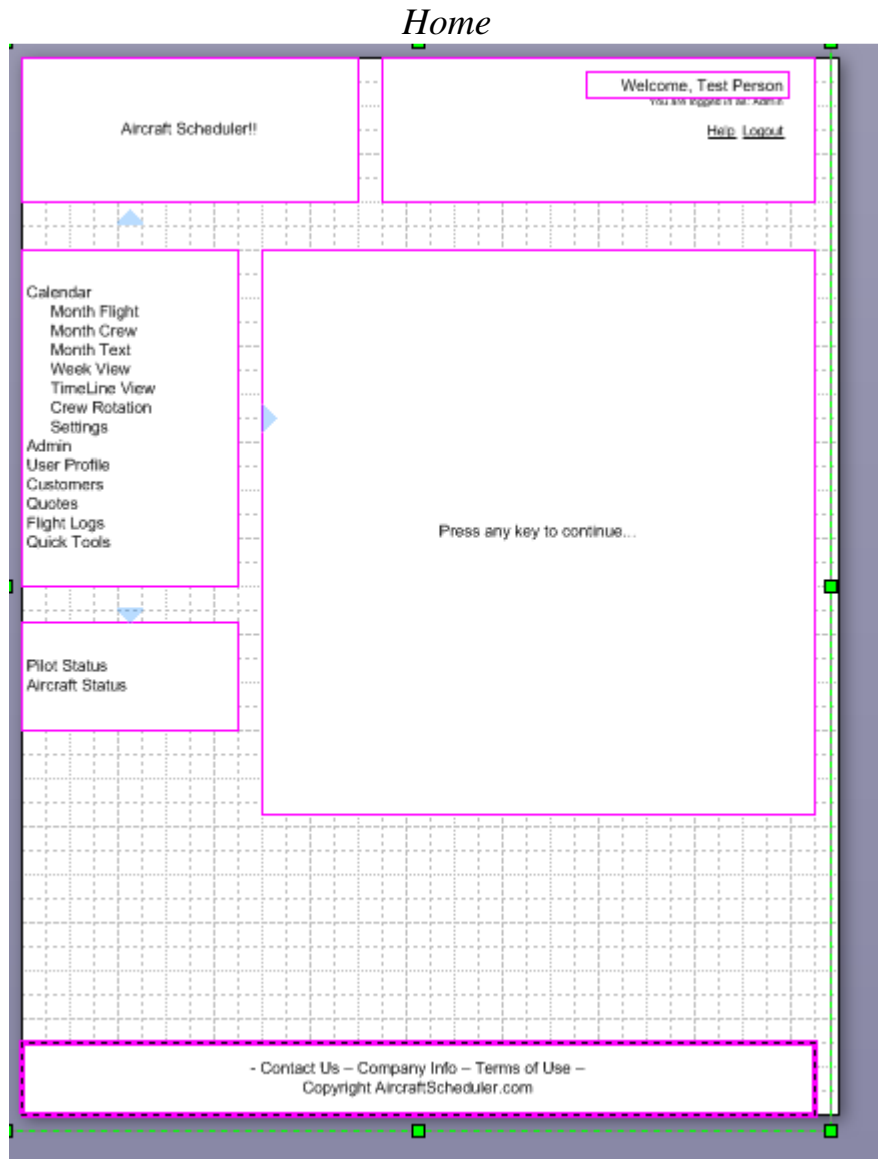
Faculty Advisor:
Dr. William Allen
wallen@cs.fit.edu

College of Engineering
Florida Institute of Technology

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Main Modules Designs



The above is a sample a main page which will pop up after login. The user logs in the system by typing in his email and password. The system searches the customer database for the email match. If the email matches the login is successful and user is directed to the sample page shown above. The user will have the limit of 5 tries and until the system could find a match for the email, the system will keep looping and asking user for a valid email or password.

Once the user is in the system, he/she could navigate by clicking on various links in the side menu bar, which will direct the user to the appropriate page. The main page is thus dependent on the login module.

Add User / Add Flight

Aircraft Scheduler!!	Welcome, Test Person You are logged in as: Admin Help Logout
<ul style="list-style-type: none">Calendar<ul style="list-style-type: none">Month FlightMonth CrewMonth TextWeek ViewTimeLine ViewCrew RotationSettingsAdmin<ul style="list-style-type: none">User ProfileCustomersQuotesFlight LogsQuick Tools	<div></div> <p>If you would like this user to receive emails when he/she is added or edited in a flight, please check. <input type="checkbox"/></p> <p>Select this option if you'd like this user to show on the crew calendar. <input type="checkbox"/></p>
Pilot Status Aircraft Status	
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The above page is the example of add user/add flight module. They are two different modules but follow the same design pattern. The user at admin level can simply add a user to the database through this module. There will be a reset button on the page which will allow the user specified above nullify the variable values for the various fields including name, email and other information required. Other than that this module will have a add user/add flight method that will take in parameters like name, email address, user level, Boolean values for permissions for emails and calendar and return the user or flight object.

The delete user / delete flight module will have the same basis as above and will depend on the add user/add flight module as a user/flight need to exist for delete method. The delete method in the module will take the user/flight to delete and remove the selection from the database.

Billing

Aircraft Scheduler!		Welcome, Test Person You are logged in as: Admin Help Logout	
Calendar Month Flight Month Crew Month Text Week View TimeLine View Crew Rotation Settings Admin User Profile Customers Quotes Flight Logs Quick Tools	Aircraft Scheduler ADDRESS... ... ZIP Phone number ...		CONTRACT
	STATEMENT OF TERMS & CONDITIONS Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.		
Pilot Status Aircraft Status	Name On Credit Card: First: <input type="text"/> Last: <input type="text"/> Billing Address: <input type="text"/> City: <input type="text"/> State: <input type="text"/> Zipcode: <input type="text"/> Credit Card Number: <input type="text"/> Card Type: <input type="text"/> Expiration Date: <input type="text"/> CVV2: <input type="text"/>		
	<input type="checkbox"/> Note: Your Credit Card will reflect a charge from AircraftScheduler. <input type="checkbox"/> I ACCEPT THE TERMS AND CONDITIONS OF THIS CONTRACT. <input type="checkbox"/> I CERTIFY THE NUMBER OF AIRCRAFT IS CORRECT AND THAT I SHOULD BE CHARGED FOR THE AIRCRAFT. <small>(System always successful)</small>		
<input type="button" value="Save"/>			
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The above page is the example of billing module. The user adds all the payment information to the database. This module will use a method make payment, which will take in the above fields as parameters and sets the variables to the values provided. This module will have another method which produces history of the payment on a separate page.

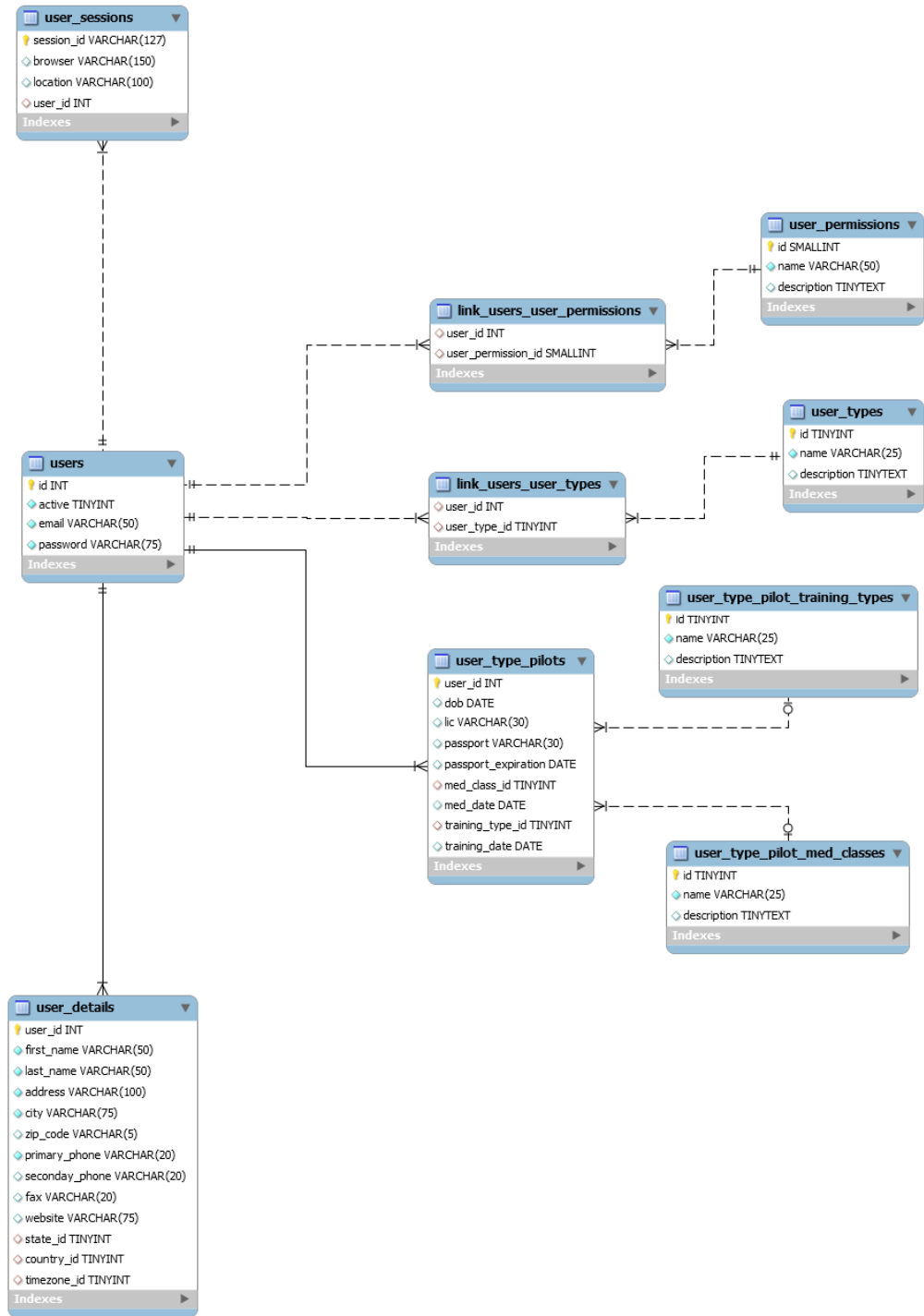
Database Schemas

Introduction

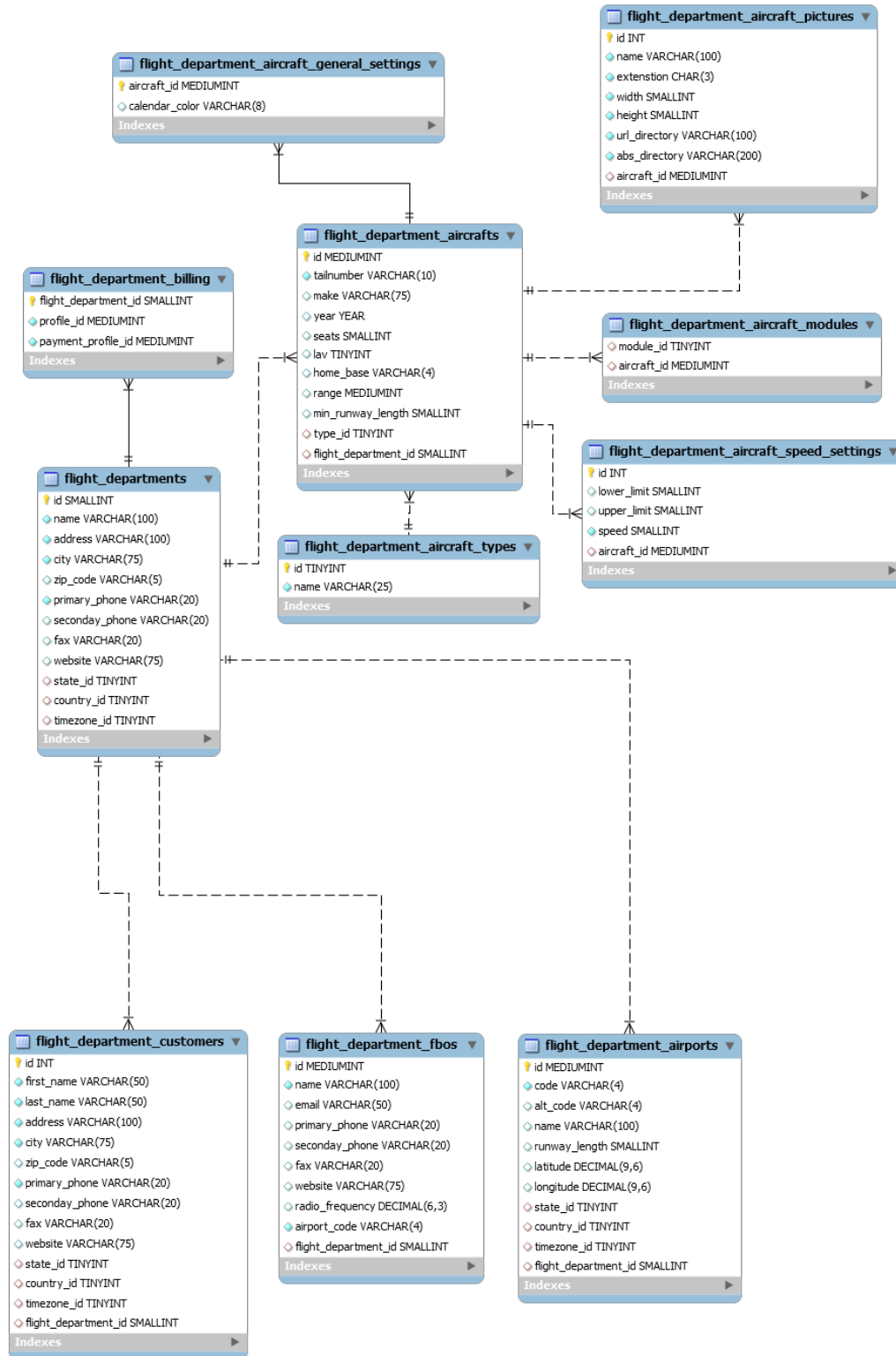
The aviation scheduler requires a database to maintain system state. The database selected for this project was MySQL (<http://www.mysql.com>). In order for the database to maintain proper structure, we selected the InnoDB storage system for our database tables. Some key features that InnoDB has are its ability to force foreign key constraints and its row locking techniques.

The following schemas (user, flight department, log, and system) are only the first revision for the basic system. They are subject to change as the system advances and modules are added.

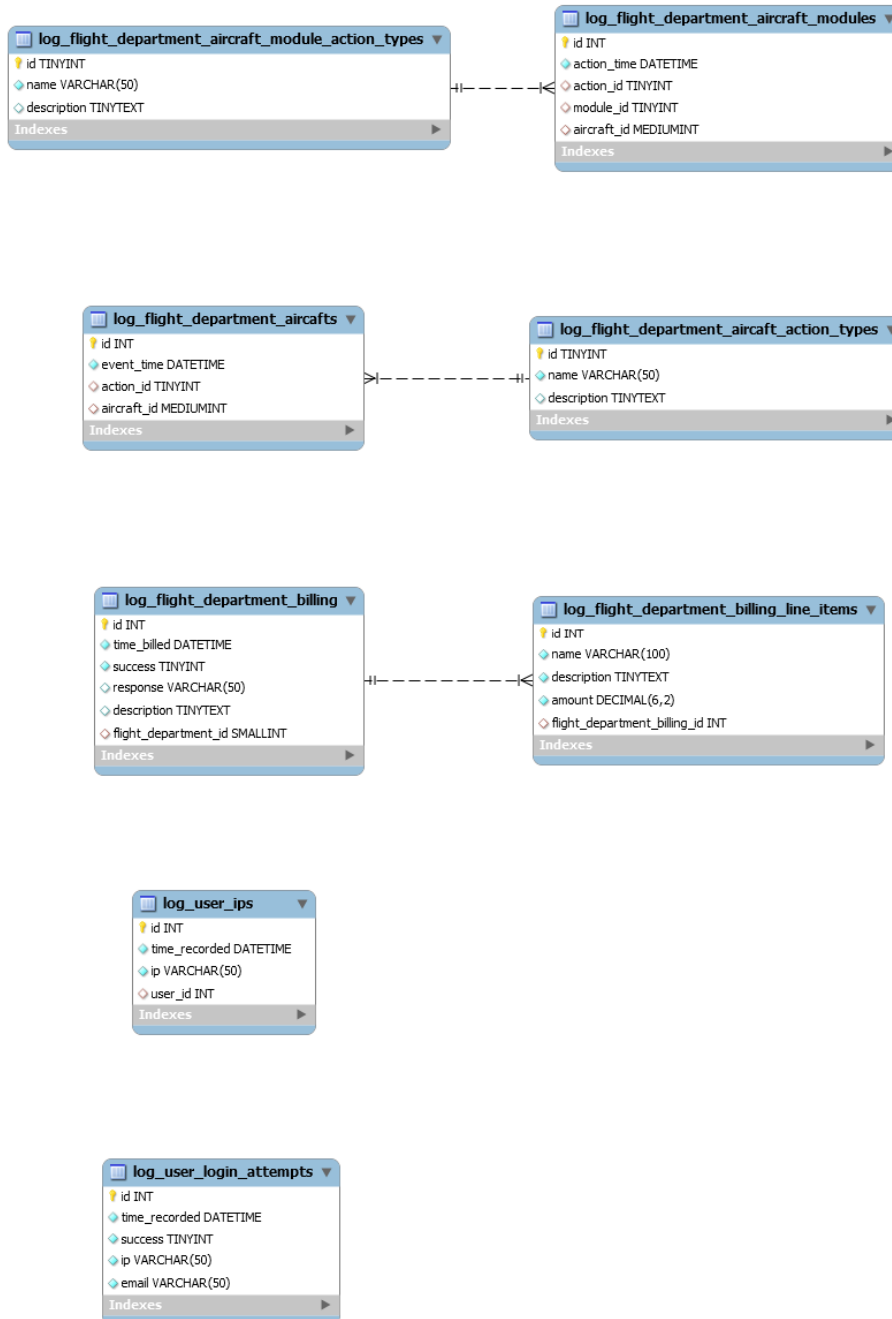
User Schema



Flight Department Schema



Log Schema



System Schema

