



UNIVERSIDAD DE LAS FUERZAS ARMADAS
COMPUTER SCIENCE DEPARTMENT

Object-Oriented Programming

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Aircraft Ticket System

Problem

We need a system that helps to make the sale of tickets for a commercial airline, in a way that allows us to register the available and unavailable seats of the plane, obtain a record of passenger data, payment methods, reservations, cancellations, confirmations and ticket billing. In order for the system to achieve a better service to customers, in this way generate higher income and thereby avoid the decline of the airline.

Overview

In the field of airline ticket sales, it is very complicated if two or more tickets are sold from the same seat, as it can generate a bad reputation towards the airline, annoyance of customers, as well as cancellations from users causing losses such as ticket refunds, in addition this would not only bring difficulties to users, but also to employees who would be under high levels of stress. And there the system comes into operation so that it can

detect some inconsistencies, optimizing the service to passengers, there being better coordination between both administrative and operational personnel and thus render the work.

Background

Airlines have evolved as technology advances. Previously, to buy a plane ticket on the airlines, it had to be done in person at a travel agency with cash. When making a purchase of a ticket in person there were many hassles.

Example

1. Go to a travel agency to buy the ticket
2. Pay with cash
3. Not being able to choose the seat of the plane
4. Possible scams

Now with technological advances we can do it from anywhere, pay with electronic money and choose which class to travel and the seats to your liking.

Analyst comparison

With the help of a fictitious money simulation, the client will be registered in such a way that at the end of the registration the client knows the exact amount that must be paid to the airline.

The system will also show the customer the seats available on the plane as well as their price.

So that the airline can check if there were revenues, the system will have a weekly and annual record in which the number of customers who bought a ticket will be recorded, as well as the cancellations that existed throughout the week or year and the amount of flights that were carried out, thus showing a balance of how much revenue the airline had per flight.