



**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.