

Universidad de las Fuerzas Armadas “ESPE”

Object oriented Programming

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Urbanization Treasury Register

Problem

A system is needed that in a simple way helps to organize payment data made by the residents of an urbanization, in addition to being able to return a report on these payments. For this we must take into account that within urbanization there are 4 types of payments which are aliquots, controls, entry cards and extraordinary fees.

Overview

Within the aforementioned urbanization there are four types of payments, which are aliquots, monthly payments that must be made within a period of 1 to 5 of each month, controls, payments that are made only when a control is damaged, entry cards, payments made when entry cards are damaged, and extraordinary fees, payments for events. These payments (with the exception of controls and entry cards) must be made by all residents without exception, so the program must register all residents to issue a report for each one on how many payments remain to be made or, on the contrary, if the resident is up to date on their payments.

Background

The management of a real estate requires good administration, the part of the treasury develops the administration of money, managing each movement of money within the urbanization. The amounts to be considered are the aliquots, a portion of an exact value. Control payments are a payment to a security service with which the development controls the entry and exit of residents. The experimental system of entry cards, which aims to lighten the load of the main control so that residents with the access card, register the entry and exit autonomously, finally the payments of extraordinary fees are due to certain events or needs of the entire urbanization. Payments are made by cash or debit card. A strict control of the collections must be carried out in this case the arrears accumulate, we are interested in them paying for their lots or if they see it profitable to sell them to external parties so that they become part of the urbanization. Concluding that all treasury operations have an accounting counterpart that must be recorded.

Analyst Comparison

In order to include payments per user, a method of entry into the system will be implemented for the user or person that makes up the urbanization (Approximately 50 users), this will have as data the identity card, the name and the number of lot or house, after doing that, you will have access to these users through the same data provided in the entry.

Users have different payments, which must be made in person (Cash), or through a transfer, the payments mentioned are the Aliquots (Tax or tax obligation), income control payments, income card payments and extraordinary fees. On the other hand, a history will be kept per user about the payments made during each month, as well as a system that accumulates payments that are not made on time.

As support we will have an edition of data, both for the user and for payments. For access to said support, it will be done through the user's data in the event of an error in the payment section, and through the identity card for the user data section.

List possible classes

- System
- Fact
- Payment
- Report
- Control
- Fee
- EntranceCard
- Event
- Report
- Residents
- Property
- Management
- Treasury

- Money
- Urbanization
- Aliquants
- Payment
- Resident
- Card
- Neighbour
- Batch