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# Workshop: parking lot

Problem

Public parking lots are known in cities as a suitable place where people can temporarily store their car, thanks to these spaces, traffic on the streets is less, likewise there is greater security for cars. Parking spaces are very important in society, but not all of them comply with the due procedural requirements. The lack of knowledge about the existence of programs for registration and payment in a parking lot, likewise the difficulty in using them is what makes good performance impossible since in many of them only reports of their work are made on paper, which slows down the development of activities.

# Overview

A public parking lot is an essential establishment to control the vehicular traffic of a population, it also provides a security system for any vehicle that enters there, be it a car, motorcycle and in some cases cycles that protects them from any attempted robbery, it also offers protection from environmental exposure either to the sun or to the rain.

The idea is to create an information system aimed at the city's public parking lot in order to improve its vehicle control process; When entering the license plate number in the corresponding spaces, the timer will be activated, which will count the collection of minutes according to the value established by the owner of the parking lot. Likewise, it will be able to generate payment documents to deliver to the user and will offer the owner the option of giving promotions and special rates to their clients. This system, in turn, offers the continuous customer a rechargeable card which will allow them to simplify the registration upon arrival and departure.

# Background

PARKING LOT: According to the Law, it is a premises or premises commercially exploited by a person who temporarily cedes spaces for the parking of motor vehicles, with the duties of surveillance and custody during the time of occupation, in exchange for a price determined based on the real time of service provision.

VEHICLE: used to transport people or things, especially the motor that circulates on land.

USER: It is a person who acquires a service through an entity

ADMINISTRATOR: They are those that have to do with the allocation of resources to the project and its supervision. They usually form a steering committee that will ensure that the project is developed within the margins and requirements established in the approved documentation.

INFORMATION: It is an organized set of processed data, which constitutes a message that changes the state of knowledge of the subject or system that receives said information.

SECURITY: It is the area of ​​computing that focuses on the protection of the computing infrastructure and everything related to it (including the information contained therein). For this, there are a series of standards, protocols, methods, rules, tools and laws designed to minimize possible risks to infrastructure or information.

PROGRAM: It is a set of instructions that once executed will carry out one or more tasks on a computer. Without programs, these machines can not work. The general set of programs is called software, which more generically refers to the software or software of a digital computer.