IOT-BASED SMART PARKING SySTEM DEVELOPMENT....

As parking problems in cities have become increasingly prevalent, there is a growing demand for new parking solutions. Grand View Research predicts that the global smart parking system market will expand by 22% annually to surpass $30 billion in 2030. And the IoT (Internet of Things) is a primary contributor to such rapid growth.

An IoT-based smart parking system is a decent solution for businesses and consumers, providing real-time data on parking space availability, pricing, payments, and more. It can positively impact the environment and traffic. Moreover, IoT solutions ensure efficient parking reservation and management.

If you want to engage in IoT-based parking system development, WebbyLab's guide will come in handy. Learn about the core working principles of such systems and the steps to create one We'll use our expertise in building IoT solutions like Propuskator access control system to illustrate the dev process in greater detail.

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What Problems Does an IoT Smart Parking Solution Solve?

Working Principles & Architecture

IoT Sensors Used to Create a Smart Parking System

What Problems Does an IoT Smart Parking Solution Solve?

A smart car parking system using IoT can address many issues and tasks. For example, a driver can view available parking slots directly from their smartphone with such a solution. Companies, in turn, can supervise their parking spaces more efficiently. And most importantly, they can do it remotely.

Here are a few tasks an IoT intelligent parking system can tackle.

Access Control and Management

Parking lot owners can use access control and management systems to allow only authorized users to enter a parking area. Here's how it works.

The car parking system using IoT takes a user authorization mechanism through a mobile app or license plate scanning. At the same time, the controller on the barrier or gate may allow or refuse drivers to park their cars according to the set parameters.

WebbyLab's project Propuskator is an example of such an acces s control and management system. It uses a controller connected to the gate or barrier and paired with a 2Smart Cloud mobile application to grant or restrict access to the territory.

Working Principles & Architecture

A smart parking system using IoT can tackle various issues and tasks. But how exactly does it work?

A smart parking system uses IoT devices and sensors to collect real-time data on parking lot occupancy and transmits this information to the cloud or local network. It also involves building IoT apps for end-users, like parking administrators and drivers. They can adopt this mobile or web application and access the necessary data on available parking spaces, pricing, etc..