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CSE

67

PROJECT

SMARTER AND HASSLE FREE PARKING SYSTEM



Parking is a growing challenge in most metropolitan areas, especially during peak hours. The root of the difficulty lies in not knowing which parking spaces are available at a given time, leading to serious traffic congestion and fuel wastage.

This project presents a smart parking system which provides a solution, in which the status of each and every parking slot will be visible to the user as soon as they enter the parking lot. It uses an HC-SR04 ultrasonic sensor, 16*2 LCD display and LED (green and red) to indicate which lots have available space. The HC-SR04 ultrasonic sensor is installed in each parking slot area. The sensor will detect the parking slot already used by a car. The data obtained from the ultrasonic sensor will be managed by Arduino Uno, which sends the sensor information to 16*2 LCD display to show the status (free or full) in the entrance. If a slot is free a green LED glows, if not red LED glows.