

## SMART PARKING SYSTEM USING IOT

*Shreedatta Sawant<sup>1</sup>, Ashwina Tari Volvoikar<sup>2</sup>, Kiran Mukund Gawas<sup>3</sup>, Deodato Idris Marcel Rodrigues<sup>4</sup>, Shrutika Sharad Pedamkar<sup>5</sup>, Prasad Balkrishna Salgaonkar<sup>6</sup> & Rohit Arvind Narvekar<sup>7</sup>*

*<sup>1,2</sup>Professor, Agnel Institute of Technology and Design, Goa, India*

*<sup>3,4,5,6,7</sup>Research Scholar, Agnel Institute of Technology and Design, Goa, India*

### ABSTRACT

*Due to the rapid production of number of vehicles, traffic problems are bound to exist. The number of vehicles has been increasing on a daily basis, which adds to the parking constraints at public places. The proposed system, “Smart Parking System” is designed to alleviate the current problems. With the implementation of the smart parking system, user can easily locate and reserve a vacant parking space at any car parking area which is convenient to them. Checking in and checking out of vehicles is also made easier and more convenient to the drivers with the help of Node MCU (ESP8266) and Ultrasonic sensor. In today’s world, smart cities have become very popular. The evolution of Internet of Things has made it possible to achieve smart parking system. Problems such as, traffic congestion, limited car parking facilities and road safety are being addressed by IoT. In case the parking is not available in the desired location, the proposed system also allows the user to search for nearby available parking area. Using Naïve Bayes Classifier algorithm the user can also search for the availability status of a parking area for any particular day.*

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**KEYWORDS:** Node MCU (ESP8266), Ultrasonic Sensor, Naïve Bayes Classifier Algorithm

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### Article History

**Received: 10 Dec 2019 | Revised: 17 Dec 2019 | Accepted: 28 Dec 2019**

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