

## ABSTRACT

The increasing number of vehicles on the road has led to a growing problem of parking space availability. This problem is especially acute in urban areas, where parking spaces are limited and expensive. Smart parking systems offer a solution to this problem by using technology to improve the efficiency of parking management. User can select the parking List and select the slot no. Enter the details of the car to book the slot. Smart parking systems real-time database to monitor parking spaces in real time. This information is then used to provide drivers with information about available parking spaces, such as their price, and availability. Users can reserve parking spaces in advance, ensuring that they have a guaranteed spot when they arrive at their destination. The collected data can be analyzed to understand parking patterns and inform urban planning decisions, helping cities optimize their parking infrastructure and reduce congestion. Users can receive real-time alerts and notifications about their parking status, such as when their parking time is about to expire or if there are changes in parking availability.. Smart parking systems represent a significant advancement in urban mobility, offering a comprehensive solution to the challenges posed by limited parking availability.