INTRODUCTION:

With the increase in use of private vehicle in recent years, the problem of car parking has raised in busy and big cities of the world. In crowded cities of the world, mostly a person has to spend a lot of time in finding the vacant parking lot.

As an important component of traffic system, parking management system is playing an important role and affecting people’s daily life. By detecting and processing the information from parking lots, smart parking systems allows driver to obtain real-time parking information and alleviates parking contentions.

A Smart Parking system is a parking solution which is embedded into parking spots to detect whether parking bays are free or occupied through real-time data collection.

PROBLEM STATEMENT:

With the increasing number of vehicles and the decreasing efficiency of modern busy parking lots, major problems which we people are facing is:

1. Valuable time wasted from inconvenient and inefficient parking lots.
2. More fuel consumed while driving around parking lots, leading to CO2 emissions.
3. Potential accidents caused by abundance of moving vehicles in disorganized parking lots.

Therefore, there is a need to develop an affordable system which solve the problem and obtain the information about the parking lot on real time.

OBJECTIVE:

* To develop an intelligent, user friendly automated car parking system which reduces the manpower and traffic congestion.
* To improve the performance and satisfy the need of free parking lot.
* To reduces the time wastage in finding the vacant parking lot.