

# COLLEGE NAME: PRIYADARSHINI ENGINEERING COLLEGE

COLLEGE CODE:5119

COURSE NAME: IBM

GROUP NUMBER: 2

PROJECT TITLE:SMART PARKING

PROJECT SUBMITTED TO: Skill UP

YEAR: 3

DEPARTMENT: ECE

SEMESTER: 5

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# Smart parking :-

One of the most important problems facing large cities is congestion and parking . So, using Automated Parking System Management is an efficient technique using the Internet of Things to manage the garage [4]. Smart parking is an electronic tool that enables the user to find vacant parking spaces through information technology and by using appropriate sensors [5]. Among the most used types in smart parking, systems are data routing systems, smart payment systems, and electronic car parks. These types require disclosure of whether parking spaces are vacant or not. With the user registration in the system, a unique identifier is created for him, and with the booking, it has the booking details, and via their smartphones, the entire time, exit time, and money are calculated. The System building consists of, the lowest level, including the functions of sensing, data transmission is created during a middle level, and upper-level deals with the storage and processing information, and user interfaces

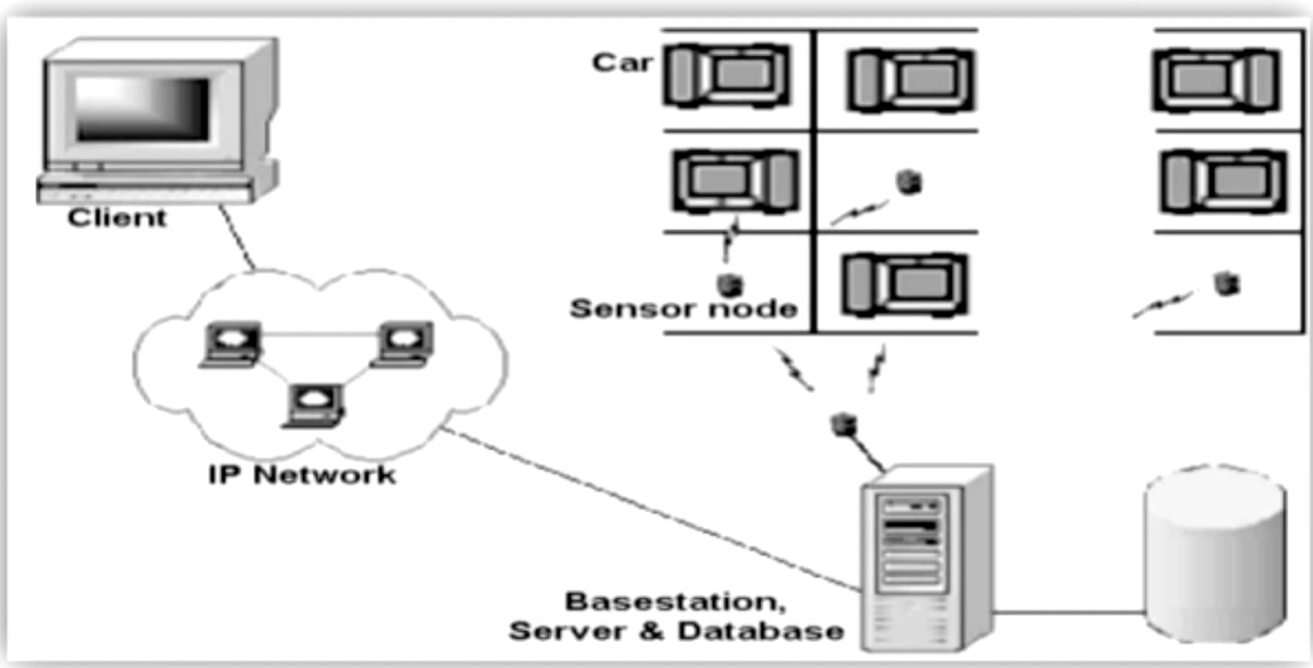
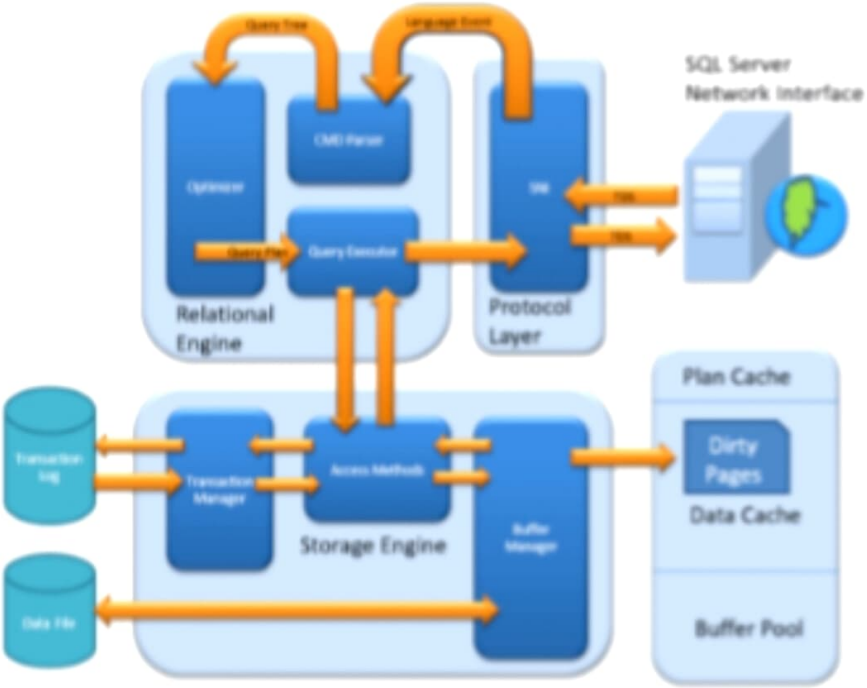



Fig:Smart parking system  building




# SOFTWARE COMPONENTS

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1. ARDUINO IDE SUPPORTS THE LANGUAGES C AND C++ USING DISTINCT GUIDELINES OF CODE ARCHITECTURE, WHICH STORES A SOFTWARE LIBRARY FROM THE WIRING PROJECT, WHICH RUNS COMMON INPUT AND OUTPUT PROCEDURES.

2. MS SQL SERVER IS A CLIENT-SERVER ARCHITECTURE THAT ACCEPTS, PROCESSES, AND REPLIES TO THE CLIENT REQUEST WITH PROCESSED DATA.

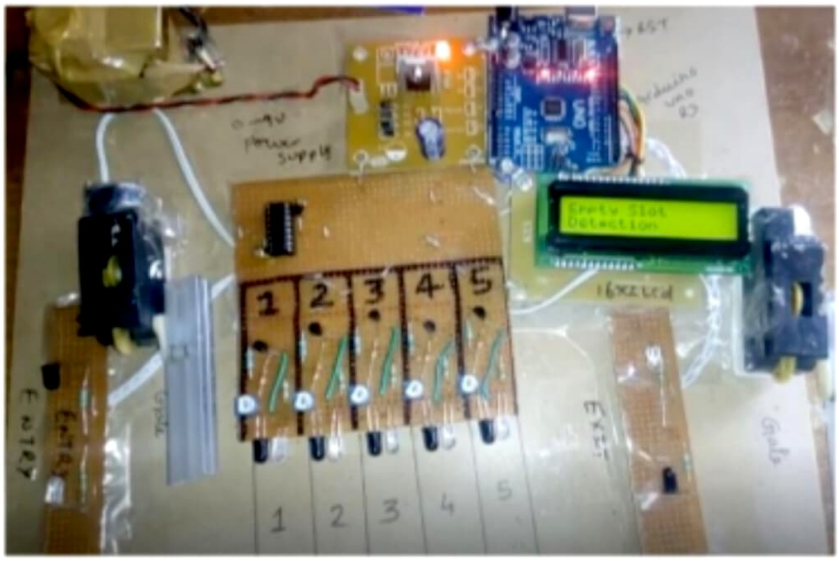


Figure. 13, smart parking implementation


Figure. 14, smart parking design