Smart parking

- Innovative ideas about project Smart parking

    For searching the space for car parking in mobile app I have some idea which can help this case

    - First we must construct or plot a environment for free space detection

    - For plotting the environment we must place sensors which can help to detect the free space.

Required devices:

➢ ultraSonic HC-SR04 sensors

➢ Arduino Nano

➢ Ethernet modules

Car Detection:

✓ First we want to detect car for knowing that the place is free to park ,so we fit ultraSonic HC-SR04 sensor to detect cars.

✓ The two sensors must fit for one parking place because of fault that the sensor made due to moving of car.

✓ For this only we place two sensors which one first detect the car and second verify that the car enters the parking place and placed
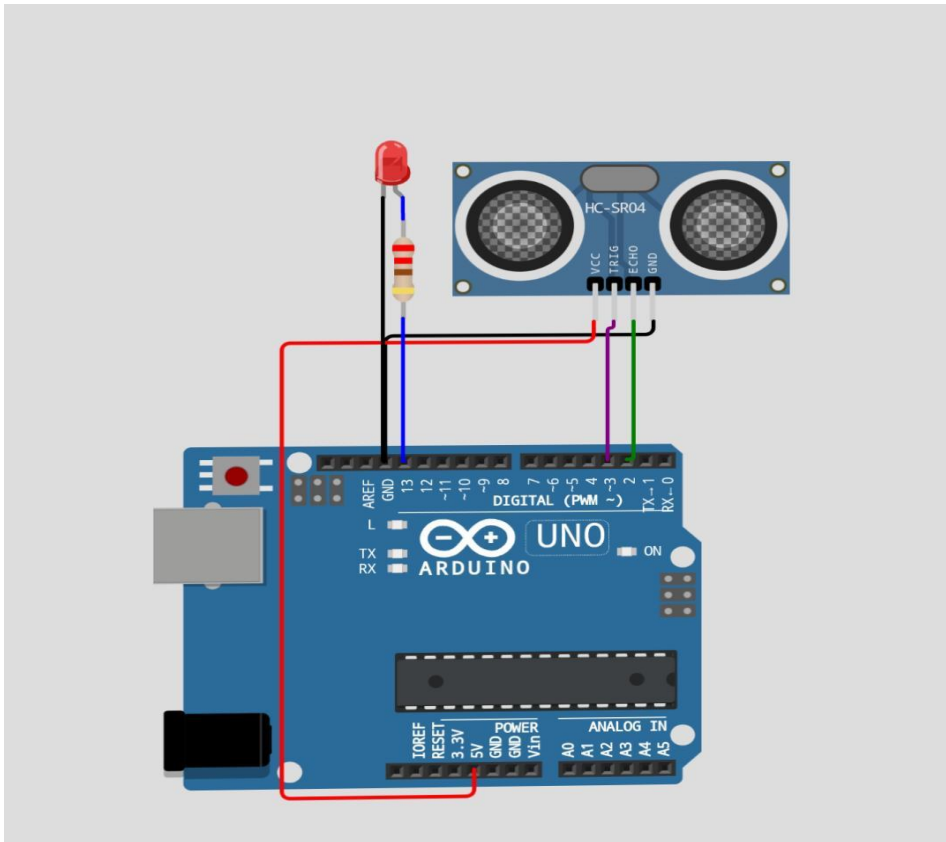

to that space.

✓ We add some extra devices like payment purpose, check in and check out details.

Sharing collected data from sensors using IOT devices:

✓ Connect the sensors to the IOT device Arduino Nano which can helps to transmit the data collected to the server(here i use cloud server)

✓ The sensors are connected through wifi to arduino Nano for transmitting the data collected about free space for parking.

✓ The IOT devices sends the collected data to the remote server and store these data in that and retrieve the data whenever we want to access.

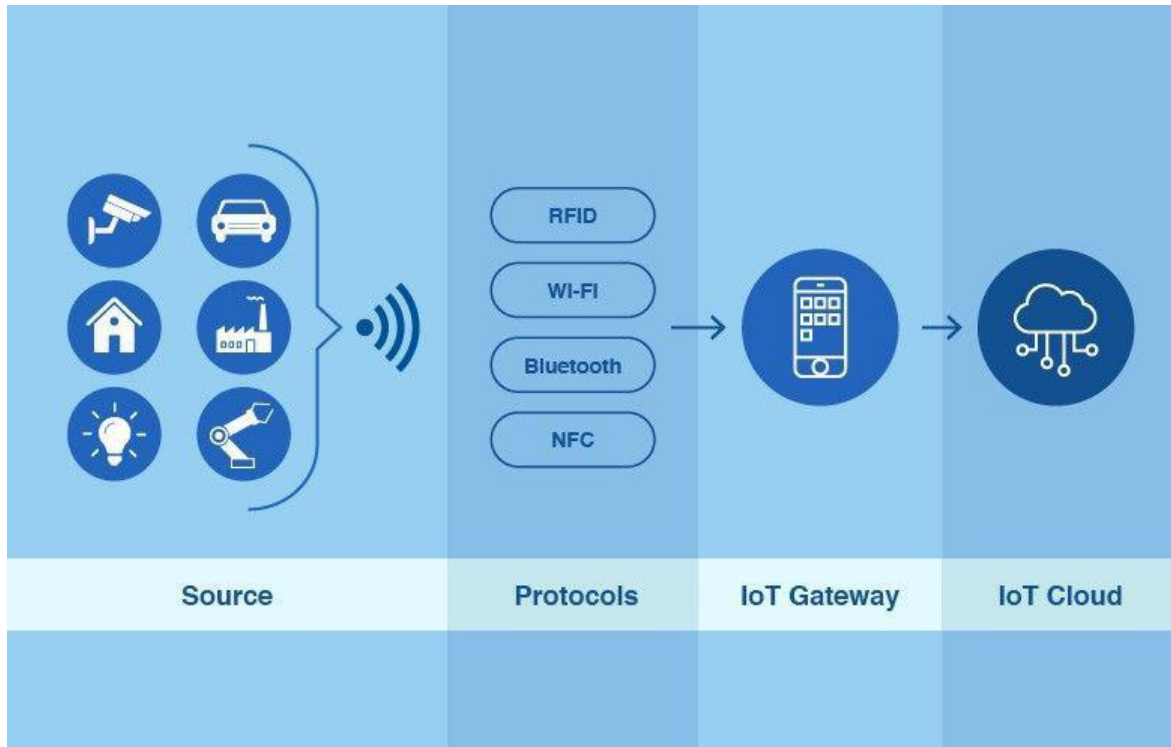✓ The Cloud data tramitted to mobile app function which helps to find space through mobile app.

➢ For sending the data we use Ethernet modules – ENC28J60 Ethernet modules to connect with remote server
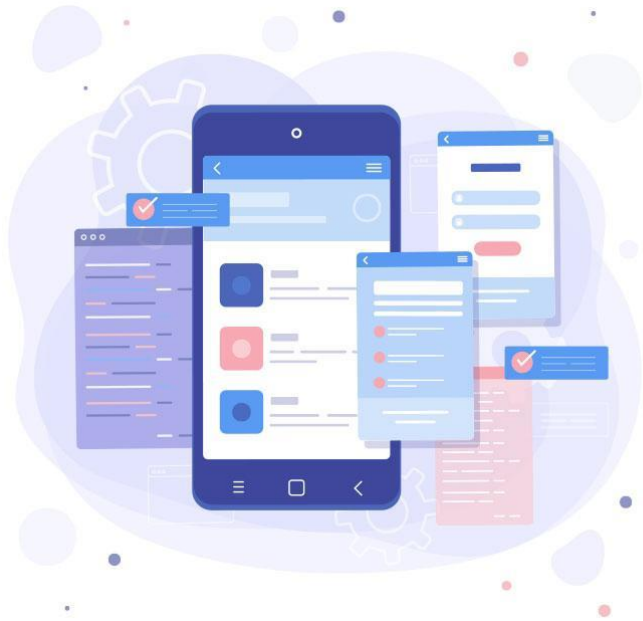
IOT Mobile App Development:

➢ The mobile applications that I want to design can get processed data through cloud server

➢ The processed data helps to detect the free space and show user where the free slot for parking their cars.

➢ We must try hard to develop the app for this use and update the data for all movements.

➢ We can use think speak cloud which can helps to merge the application animation with the sensors actual movement .

➢ For these process we must need good app development skill and get cloud data accurate for our need

How IoT Will Impact Your Mobile App Development

Conclusion:

As I am made my point for innovative ideas for my project Smart parking,i conclude that it gives clarity about my point of you . Thank you