ELECTRONICS AND COMMUNICATION ENGINEERING

SMART PARKING SYSTEM USING IOT

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What is an iot?

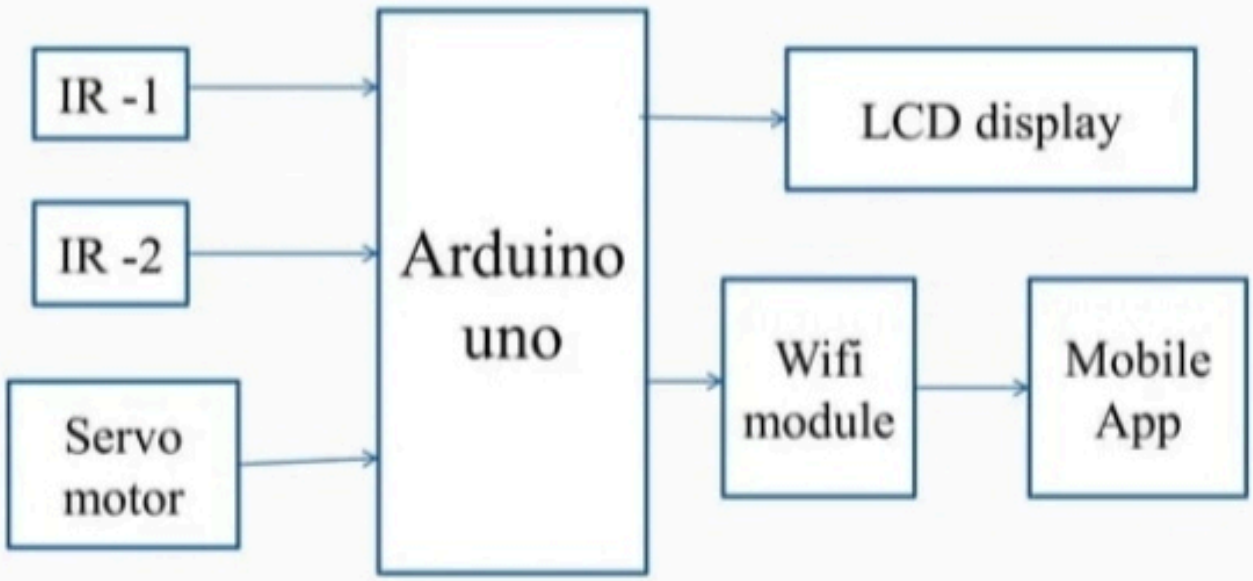
- The Internet of Things (IoT) is the network of physical objects or "things" embedded with electronics, software, sensors, and network connectivity, which enables these objects to collect and exchange data.

What is smart parking

Why it is needed

- People cannot find parking in popular places. Especially during holidays, traffic is always bad.
- People cannot locate their car in large parking slots

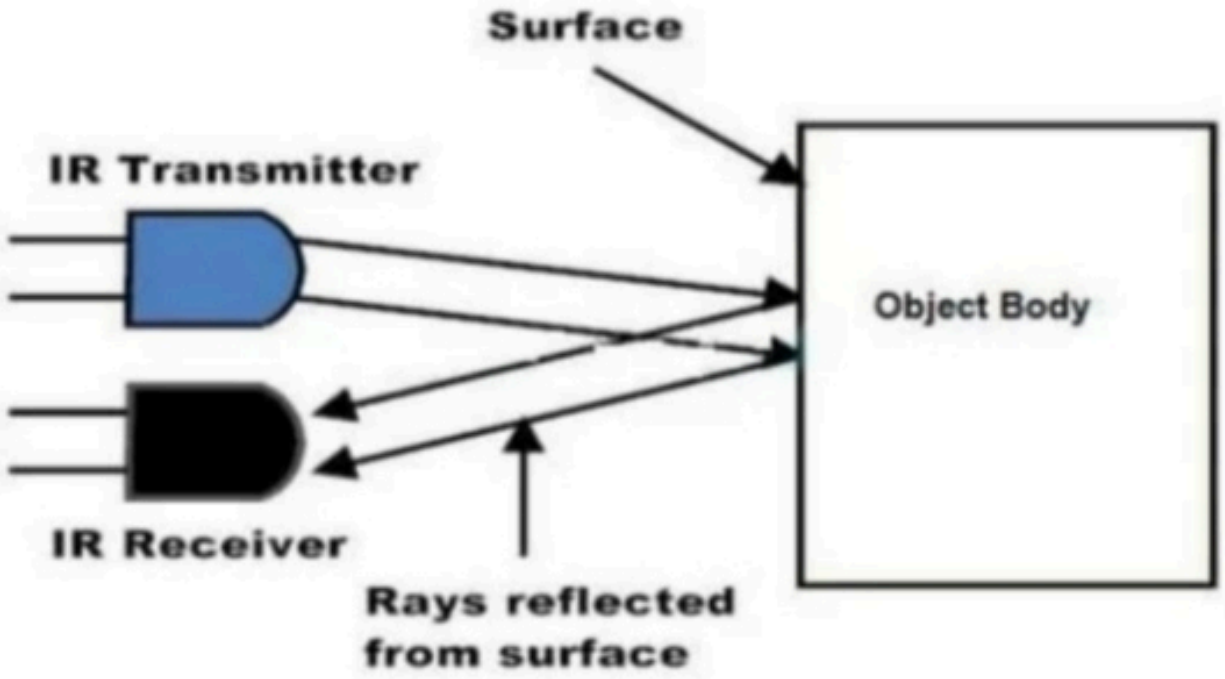
Block diagram:



IR sensor:

- 3v to 5v power supply
- Current 23mA to 43mA
- Range is 2cm to 30cm

Operation of IR sensor:



Arduino uno:

Advantages-

- Shorter waiting time
- Saves fuel
- Guided to nearest place
- Reduce carbon emission

Applications

- The smart car parking system can be implemented in
  - Shopping malls
  - Restaurants
  - Theatres

Conclusion -

- The system benefits of smart parking go well beyond avoiding time wasting.
- Developing a smart parking solutions with in a city solves the pollution problem.

Future scope -

- The future of the smart parking system is expected to be significantly influenced by the arrival of automated vehicles (AVs). Several cities around the world are already beginning to trial self-parking vehicles, specialized AV parking lots, and robotic parking valets.

THANK
YOU