SMART PARKING

Submitted By

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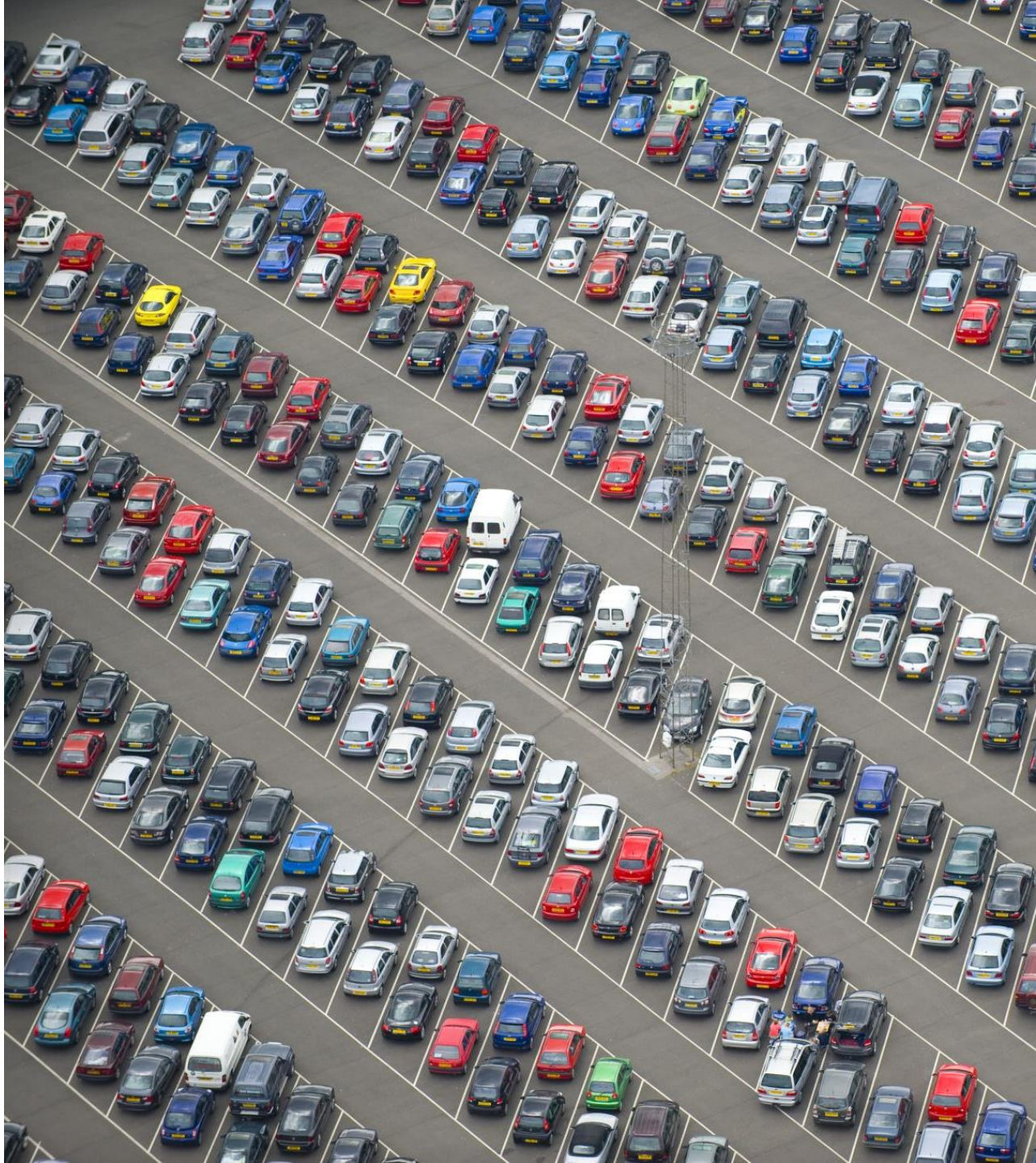
PROBLEM STATEMENT

In the era of IoT (Internet of Things), urban areas face a pressing challenge in optimizing parking space management. Traditional parking systems often lack the technological advancements needed to provide real-time, data-driven solutions. As a result, cities and parking facilities struggle with issues such as inefficient space utilization, traffic congestion, and increased carbon emissions due to prolonged vehicle search times. To address these critical challenges, our project aims to design and implement an IoT-based smart parking system that leverages sensor technology, data analytics, and user-friendly interfaces to enhance parking space efficiency, reduce search times, and promote sustainable urban mobility.

PROBLEM STATE MENT

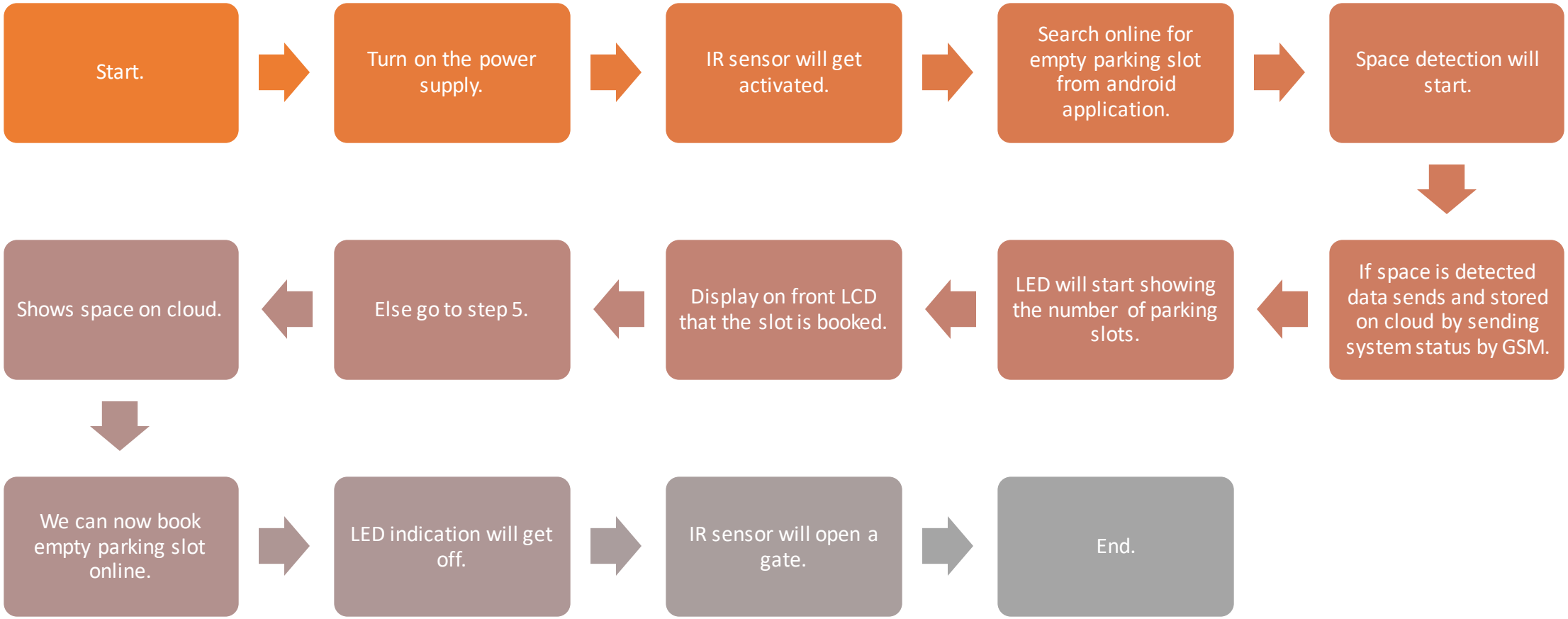
- Parking management influences drivers search time and cost for parking spaces.
- It may also causes traffic congestion.
- Finding a parking space in most metropolitan areas, especially during the rush hours, is difficult for drivers.
- Difficulty arises from not knowing where the available spaces may be at that time traffic congestion may occur.

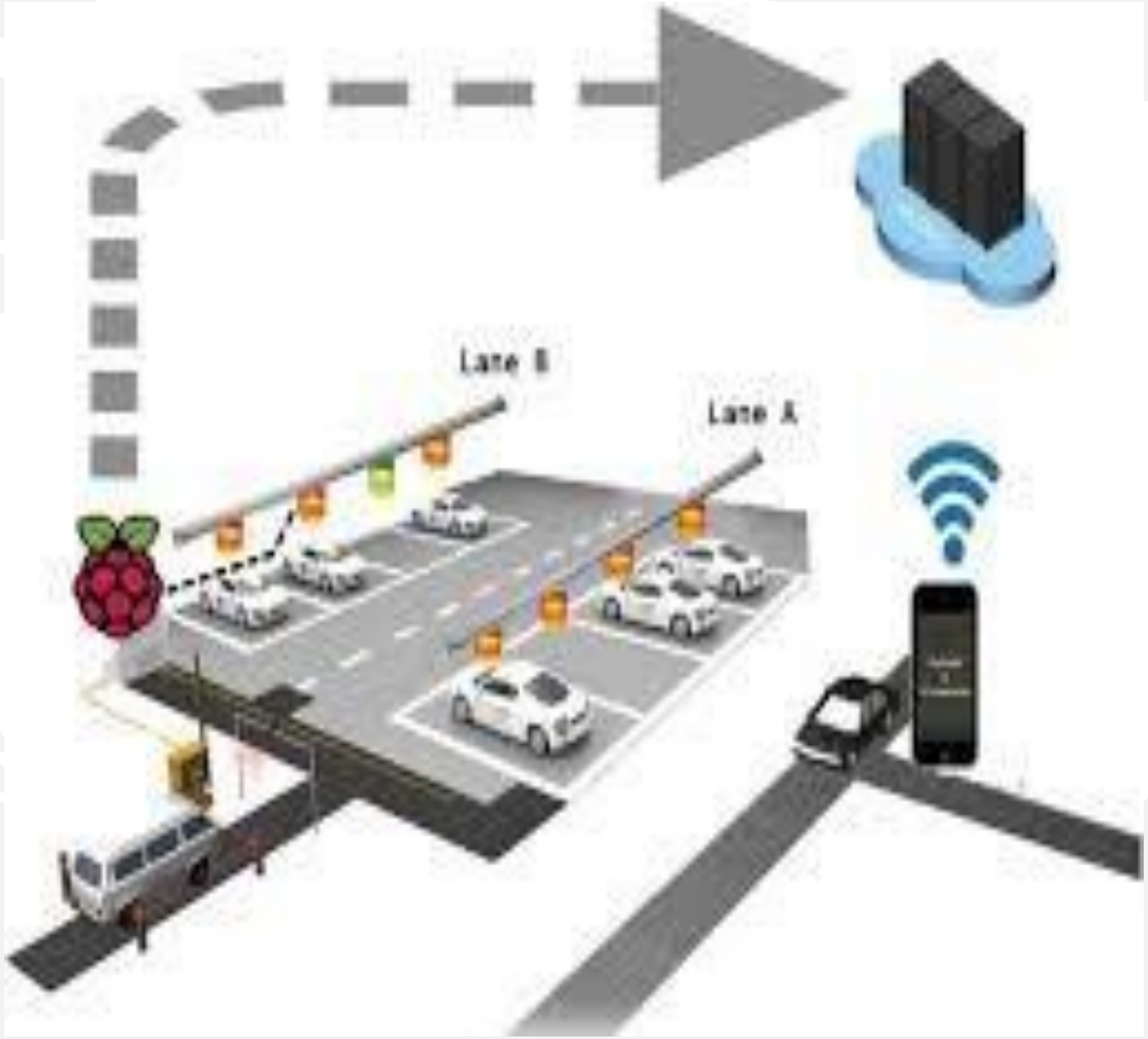


OBJECTIVE

- Parking space reservation can help drivers to reduce the search time dramatically.
- With the real-time reservation service, the drivers can find and reserve their desired vacant parking spaces quickly.
- Therefore, the gasoline and time in search of vacant parking space is reduced.
- It reduces time in search of vacant parking spaces is reduced so it reduces traffic congestion caused due that.

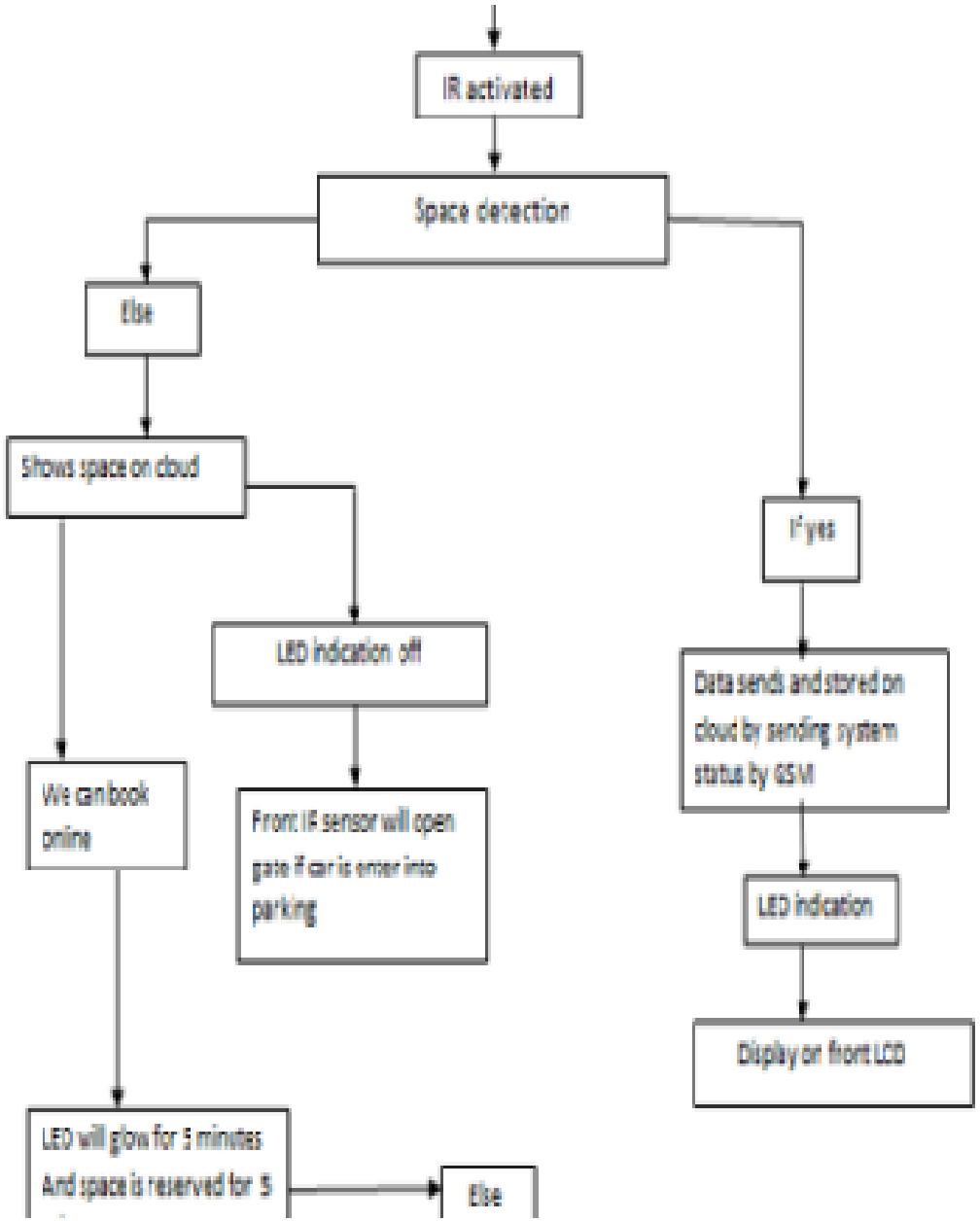
WORKING PRINCIPLE




Lane B
Lane A

METHOD OF WORKING

Flowchart :



THANK YOU