

# I) Server + data Process

## 1) Device IoT

-> data son format

```
{
    distance : 20; // centimeters
    degree : 320; // degrees
    (remaning_time : 100 // milliseconds)
}
```

## 2) Router / Server technology nodejs

-> loop

- wifi connection / network

- receive data

- parse json

- calc/store position

1) verify last remaining time

2) *if the angle is not ok try to correct —> final step*

3) determine where is the car on the map

4) draw the map

5) define target destination

6) set direction

7) store commands

- serialize json


```
{
    rotation : 20; // degree
    direction : 0 // boolean (0: forward, 1: back )
    time : 1000 // miliseconds
}
```

- sent back the action

- show the output on a webpage / or terminal

# II) Map

legend

- forbidden postion 
- car 