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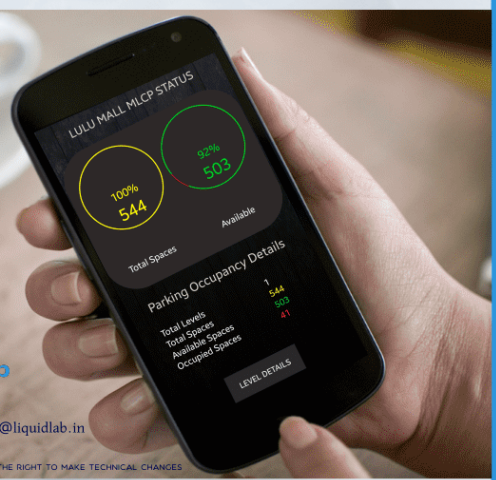

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LIQUIDPARK

INTELLIGENT CARPARK GUIDANCE SYSTEM

LIQUIDPARK

INTRODUCTION

LiquidPark provides the driver with real-time and accurate information of available parking space and will guide them to the nearest space available through the shortest route with the help of directional displays at strategic locations.Space by space ultrasonic detectors along with pilot lights provides a better visual indication of the available carpark space to the driver. The system also provides detailed statistics and reports on the carpark usage and events.

The system follows a zone based counting principle and therefore can be a cheaper solution for large multilevel carparks.Moreover our solid Direction Detection Logic (DDL) identifies the direction of vehicle movement,any tailgating events and many other irregular vehicle movements.

LiquidPark is designed and devloped in a hierarchical and modular architecture and therefore is scalable to any extend.

LIQUIDPARK

OBJECTIVES

- Guide the driver to the nearest available parking space more efficiently.
- Fully optimize the use of existing carparking space.
- Reduce chaos and congestions at the parking area.
- Create a better impression about the parking.
- Reduce the manpower required for manual guidance.

LIQUIDPARK

SERVER

The centralised server holds the system database, administration and reporting tool and communicates with all the level controllers. Our new client interface is designed and developed with simple easy to use user interface to precisely meet our cient's requirements.

LiquidPark provides detailed real-time reports and statistics for individual entry, exit, zone & level ensuring the most efficient management of the carpark.

CONFIGURATION & MONITORING APPLICATION (LIQUIDPARK)

LIQUIDPARK

VARIABLE MESSAGE SIGN

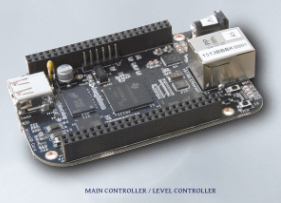
Variable message signs with direction arrows will be fixed on strategic locations, which display the total spaces available in that particular direction.Our display features ethernet connectivity and can be connected to the nearest ethernet switch. Green and Red Dual color LEDs are used to show total space and FULL message.

LIQUIDPARK

VARIABLE MESSAGE SIGN

The Controller continously communicate with all the inductive loop vehicle detectors in a particular level, perform necessary operations to calculate the available space as per the carpark configuration and send the counting information to the central server through ethernet.

The controller is designed with latest 1 GHz ARM cortex A8 processor with 4GB onboard Flash for the best performance.



MAIN CONTROLLER / LEVEL CONTROLLER

LIQUIDPARK

ULTRASONIC DETECTOR

Ultrasonic detectors are installed on top of each parking space, which continously monitors the presence of vehicle underneath and turn on pilot light accordingly.A green pilot light signifies that the particular parking space is free, while a red light indicates that the space is already occupied.

ULTRASONIC DETECTOR

LIQUIDPARK

ADD-ON FEATURES

Android ,IOS applications and web portal to provide real-time parking status to the customers, so that they can plan their trip whenever parking is free.

Can be intergrated with lighting system inside the parking area to switch off lights whenever a particular zone or level is empty.

LIQUIDPARK

FEATURES

- Faster booting with less than 15 seconds.
- Retains counting data and configuration during system restart and power failures.
- Easy to integrate with third party systems in the carpark,including carpark barrier, fire alarm, BMS etc.
- Visualisation of carpark on a virtual map.
- Facility to modify the zone occupancy during run time.
- Full graphical interface for real time status monitoring and remote management .
- Detailed occupancy and counting reports for individual zone and level.
- Highly customizable as the complete solution is designed and developed by Liquidlab.