



Efficiency
Engineered

ONE-STOP DESTINATION FOR ALL YOUR IOT SOLUTIONS



PARKING MANAGEMENT SYSTEM

<https://www.solidz.io>

In SOLIDZ.IO, we design and implement Parking Management System (PMS) that involves several components and functionalities to efficiently manage parking spaces, track vehicles, and enhance the user experience.

KEY COMPONENTS

• Entry Kiosk

- Built in Controller to control the boom barrier
- Capable of integrating and monitoring 2 vehicle loop detectors
- Push button
- Thermal printer with cutter (3 inch width)
- 2 IP Camera input port (Front vehicle pic + ANPR, Driver pic)
- 7 inch display
- Short Range RFID Card Reader (for regular users)
- QR Code Reader (For mobile App users)
- Gigabit Ethernet



• Central Control Unit

- 1.8 GHz Quad Core ARM Processor
- 8 GB RAM
- 128 GB memory
- Gigabit Ethernet
- Linux Distro
- Maria DB
- Capable of storing up to 5,00,000 transaction logs
- Built in REST API
- Cloud application (Subscribable)



• Exit Control Unit

- Built in Controller to control the boom barrier
- Capable of integrating and monitoring 2 vehicle loop detectors
- Thermal printer with cutter for printing receipt (3 inch width)
- 2 IP Camera input port (Front vehicle pic + ANPR, Driver pic)
- 19 inch display for the parking attendant
- 7 inch display for displaying UPI QR for payment collection
- Browser based application
- Linux distro
- Short Range RFID Card Reader (for regular users)
- QR Code Reader
- Gigabit Ethernet
- Cashdrawer integration (Optional)



FUNCTIONALITY

- **Space Availability Management:** Monitors and displays the availability of parking spots in real time, directing drivers to open spaces.
 - **Reservation Capabilities:** Allows users to reserve parking spots in advance, ensuring availability upon arrival.
 - **Dynamic Pricing Models:** Adjusts pricing based on demand, time of day, or special events to optimize revenue.
 - **User Notifications:** Sends alerts and reminders to users regarding their parking status, payment confirmations, and expiration times.
 - **Comprehensive Reporting:** Generates detailed reports on occupancy rates, revenue generation, and user trends for better operational decisions.
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BENEFITS

- **Enhanced Operational Efficiency:** Reduces the time taken to find parking and streamlines management tasks for operators.
 - **Improved User Experience:** Offers a convenient and hassle-free parking experience, increasing customer satisfaction.
 - **Increased Revenue:** Optimizes space utilization and implements dynamic pricing strategies to maximize income.
 - **Data-Driven Insights:** Provides valuable analytics that support strategic planning and resource allocation.
 - **Environmental Sustainability:** Reduces congestion and emissions by optimizing parking space usage and minimizing the time vehicles spend idling.
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CONTACT US

EFFICIENT CHOICES, EXCEPTIONAL OUTCOMES !



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