



System Over View

- Based on TCP/IP network
- Based on Internet cloud database
- Can control the following:
 - In Gates
 - Out Gates
 - Cashiers
 - Servers
 - RFID Access control
 - LPR Camera
 - Long Range Reader
- Can monitor the following:
 - Park Capacity Screen
 - Gates



System Info

- > The Application based on win64
- > Databased use SQL Server 2014
- > Server Specifications:
 - > Dell Tower/Rack Server
 - Min 16GB RAM
 - > Dual HD 1TB
- Cashier PC Specifications:
 - > Dell Tower
 - Processor i5
 - > RAM 4GB
 - > QR/Line Barcode scanner
 - > Receipt thermal printer
 - > CDS unit

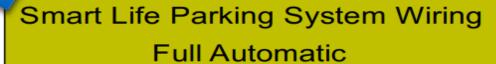




Ticketing Machines

Master wiring diagram

Fully automatic parking system



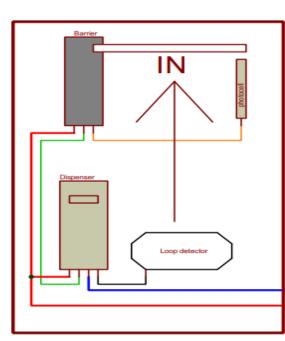
Network RJ45 CAT6

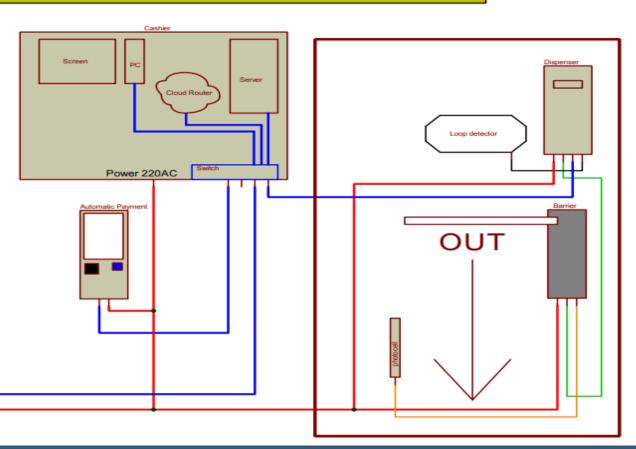
Control 1x1mm

Control CAT6
Control CAT6

Control CATO

Power 2x1.5mm + earth





Operation Process

1. Temporary visitors (daily visitor)

Entry lane:

- o The car must stand on the loop metal detector to activate the request (Led from red to green)
- o Press the green button for two seconds
- o Receipt of the printed ticket by the printer with the serial number, date and time written on it
- o Barrier will open the gate and pass through the gate

Cashier room or auto payment machine or mobile app:

- o Receive the ticket from the customer
- o Read the code through the scanner, and it will show you the waiting period and park fees
- o Receive the money from the customer or pay cash or pay by card then take the receipt

Exit lane:

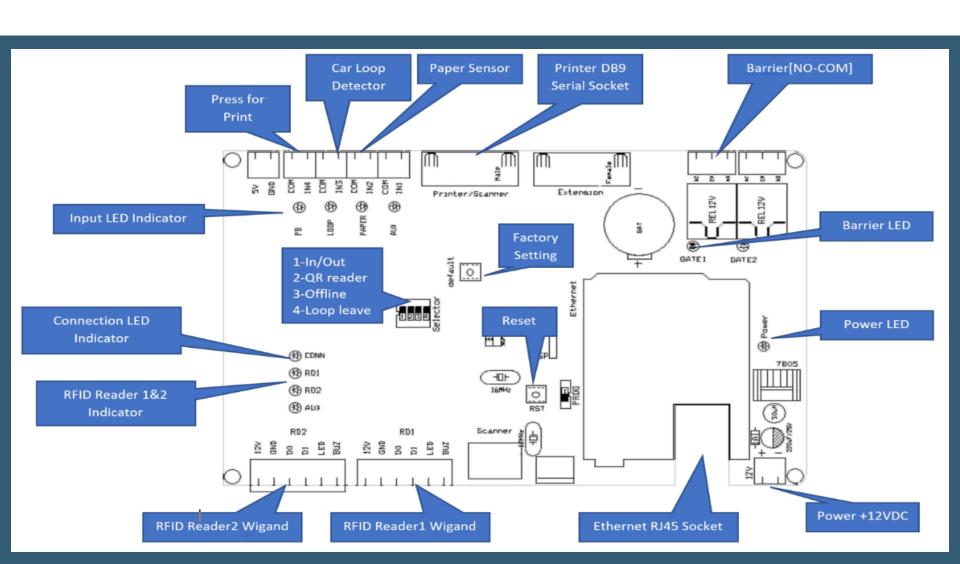
- The car must stand on the loop metal detector to activate the request (Led from red to green)
- o Place the ticket on the QR scanner to read the code
- o Wait for two seconds for the system to verify that this code has been validated and ready for exit
- o If he is allowed to go out, the gate will open and pass, if not back to cashier or security to check

Operation Process

2. Monthly and yearly use (owners, tenants)

- Using a magnetic card or tag sticker or ANPR card plate number
- O The new record is registered on the system for a specific visitor by opening the subscriptions screen and placing the card on the reader to read the code of the card
- o And the subscription period is determined for a period from date to date, and then renewal takes place according to the need
- o You can select specified days and hours through the day to access on it.
- O At the entrances and exits, the visitor puts the card on the reader or waiting ANPR camera to detect the plate number and waits for two seconds to check whether it is activated for passage or not
- o If activated, the gate will open
- (anti pass back) function is each visitor is allowed to access in one direction only, to enter and then exit, and so on. As entry is not allowed more than one consecutive time, except for master cards only.

Motherboard wiring layout



*Periodic maintenance:

This is very important steps to ensure system efficiency and durability

Title	Periodic check
Check the network efficiency and connectivity between machines, switches, servers and cashier pcs.	daily
Clean and blower the ticket dispenser with an air and cleaning the printer head with dried tissues with a light movement, especially after dust storms.	weakly ,after dusty storms
Clean and blower the dispenser barcode scanner by with dried tissues with a light movement.	weakly ,after dusty storms
Check and refill paper roll	Every 3 days
Check the in lane PB is work properly.	monthly
Examining and ensuring the efficiency and effectiveness of the machines for opening and closing barrier gates.	monthly
Check the barrier springs are tighten correctly.	monthly
Clean and check the photocell is fixed probably.	monthly



1-Printer doesn't print ticket at Entry:

Anomaly	Procedure
Network problem "connection led off"	Check network cable or reset Mother Board
Printer get error "red led"	Restart printer
Printer paper jam	Open printer and clean up
Paper out	Refill the paper roll
Metal Detector does not work	Check if car is above the loop and the detector module is on and detect correct
Unconnected	Check the Rj45 cable is connected to the mother board



2-Scanner doesn't open Exit gate:

Anomaly	Procedure
Network problem "connection led off"	Check network cable or reset Mother Board
Scanner lamp off	Scanner power off or damaged
Loop Detector does not work	Check if car is above the loop and the detector module is on and detect correct and lamp indicator is green
Unconnected	Check the Rj45 cable is connected to the mother board
Scanner doesn't beep	May be damaged QR code or scanner need to clean



3-Barrier doesn't open:

Anomaly	Procedure
Main Power drop down	Check the power on the barrier control board
Check the "Barrier led" on mother board is run when system operates	Check item no. 1 and 2
The signal doesn't go to the barrier control board	test the cable between mother board and barrier control board
Barrier makes noise but doesn't move	Barrier in manual mode reverse it to automatic mode by manual key
Motor opens but doesn't close	Check if there is any object between photocell or loop detector, or check loop module



4-Server screen error:

Anomaly	Procedure
Node IP get red alarm	Ping to IP and check network switches
SW was frozen or not work	Restart SW or force stop the program and open it again

5-Assistance

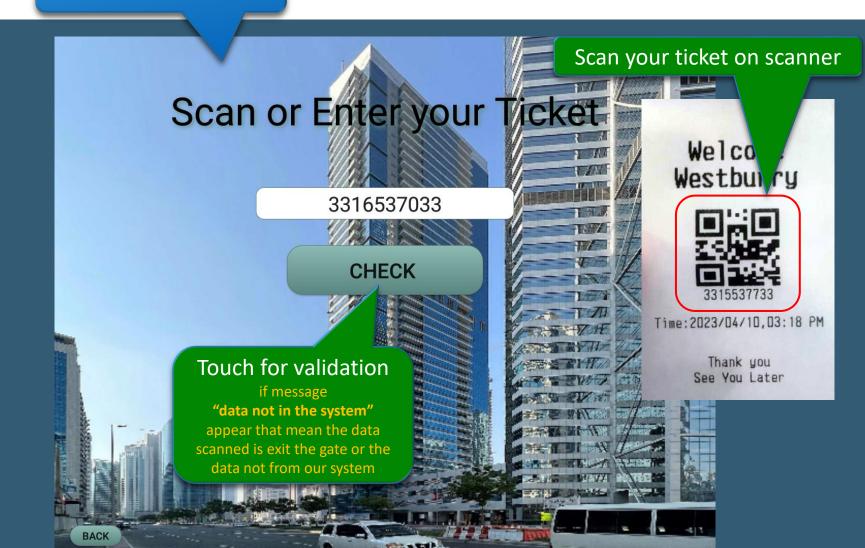
- If you encounter difficulties or have questions when installing your motorization,
- Do not hesitate to contact us; our specialists are on hand to answer all your questions.



Machine Main Screen



Scan ticket screen

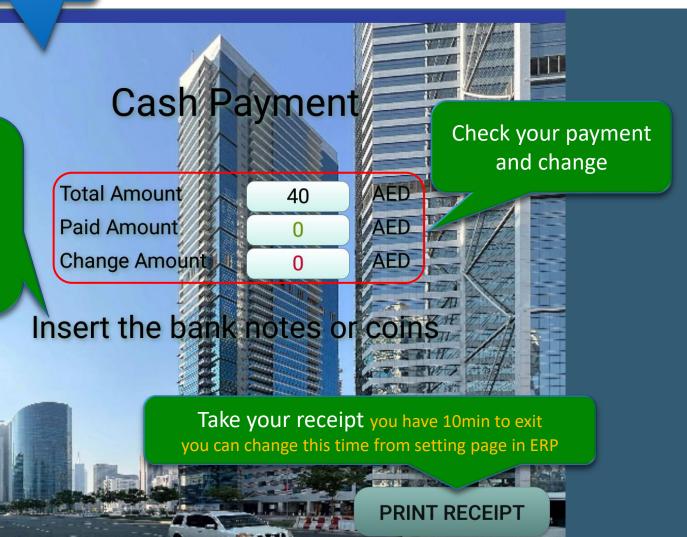


Park Details Screen



Payment Screen

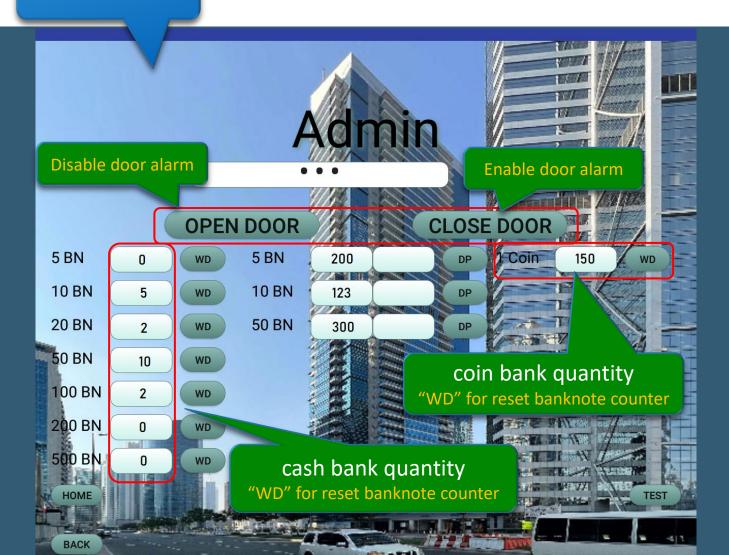
machine will start accept
banknotes cash and coins
until the amount >= the
required value then
machine stop accept the
banknotes, eject the change
and printing your receipt



Machine Main Screen









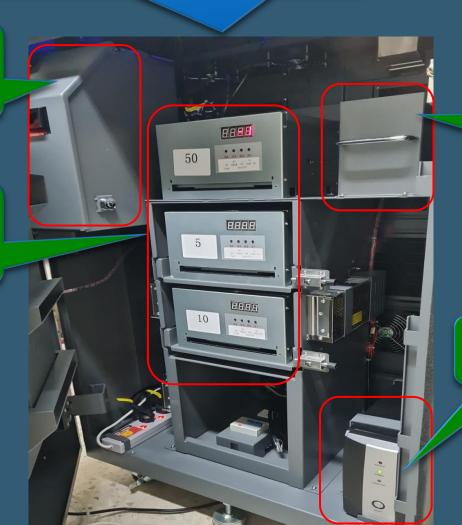


APM Technicality:

Admin accept and refill the machine banks by using admin keys (every bank has separate key)

Cash acceptor 5,10,20,50,100,200,5 00 only

3 banks Change dispenser 5,10,50



Coin bank

Power UPS

APM Periodic maintenance:

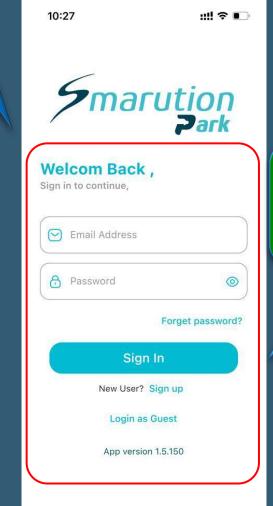
Title	Periodic check
Check the network efficiency and connectivity between machines, switches, servers and cashier pcs	Daily
Clean and blower the APS money acceptor and change dispensers with an air blower to cleaning the head with dried tissues with a light movement, especially after dust storms	weakly& , after dusty storms
Clean and blower the barcode scanner by with dried tissues with a light movement.	weakly& , after dusty storms
Check and refill receipt paper roll	Every 3 days
Check the screen touch panel is work properly	monthly
Examining and ensuring the efficiency and effectiveness of the machines for accepting and dispensing banknotes	monthly

APM Troubleshooting:

Anomaly	Procedure
Screen is off	Check the power on the barrier control board
Touch panel not work	Check USB cable between screen and control panel
Machine doesn't accept notes	Check USB cable between cash acceptor and control panel or cash acceptor power supply
Machine doesn't dispense the change notes	Check USB cables between cash dispenser and control panel or cash dispenser power supply
SW doesn't open	Restart the machine or contact the technical support
SW get error message	Check network cable or internet connection



Login Screen

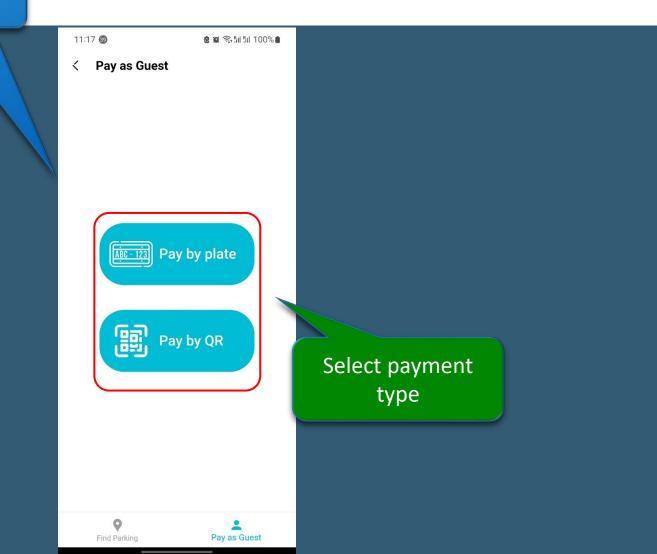


User can access as guest or register for recuring use and owners or tenants

Find nearest park



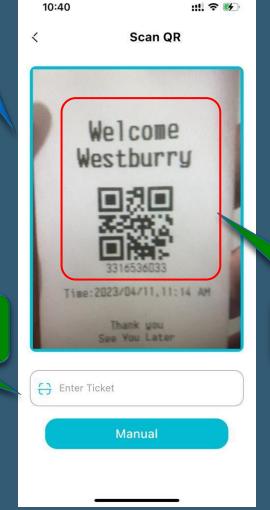
Guest Screen



You can enter it

manually

Scan Screen



Scan your ticket

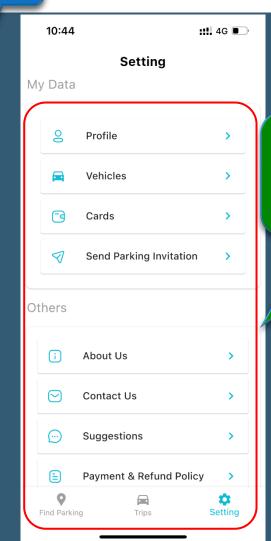


Pay now



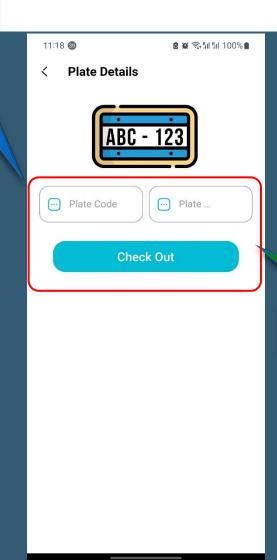
Your park details

Setting Screen



User can modify his data ,profile , cars, bank cards and send invitation

Add Cars Screen



Register your cars

Current Trips Screen



click to pay



Paid Trips Screen



user trips reports



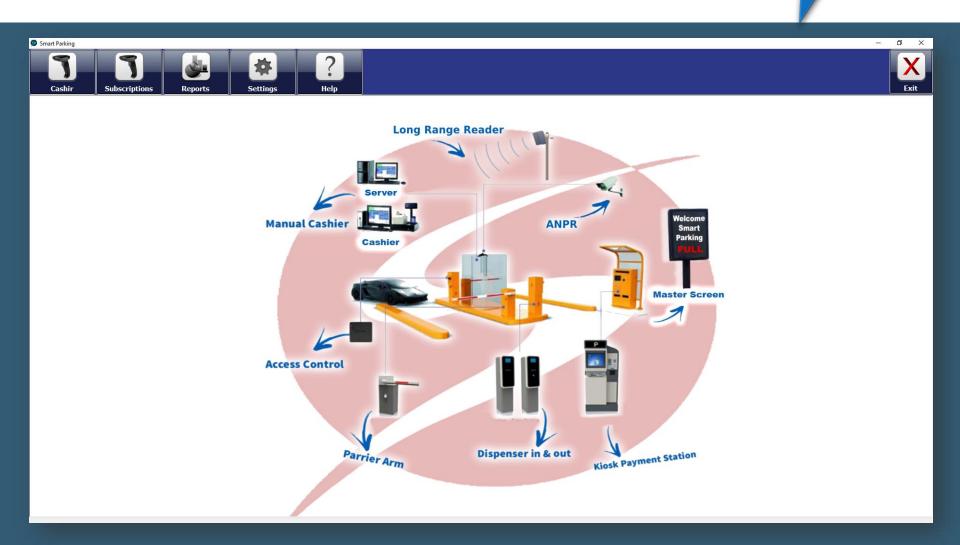
ERP System

System Screens

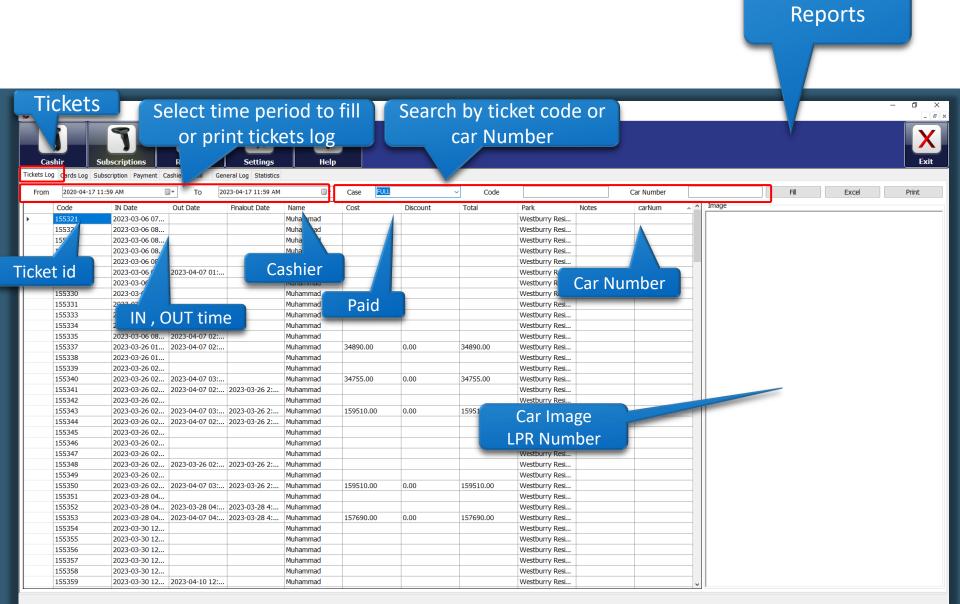


System Screens

Main screen

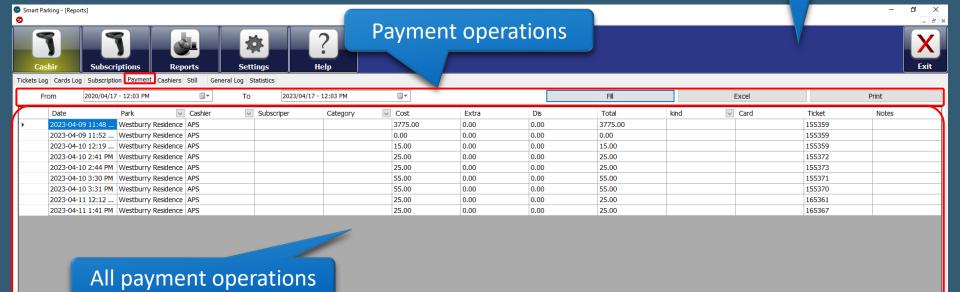








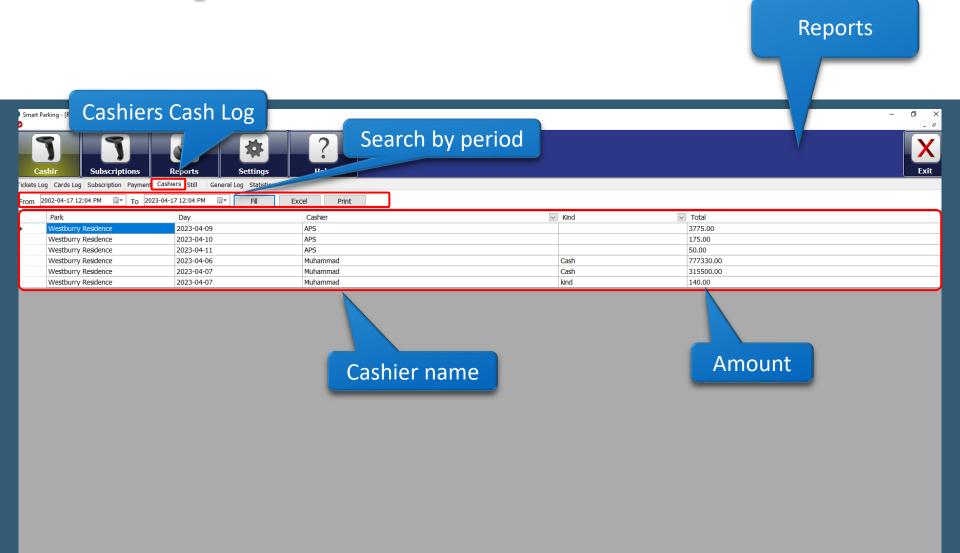
Reports



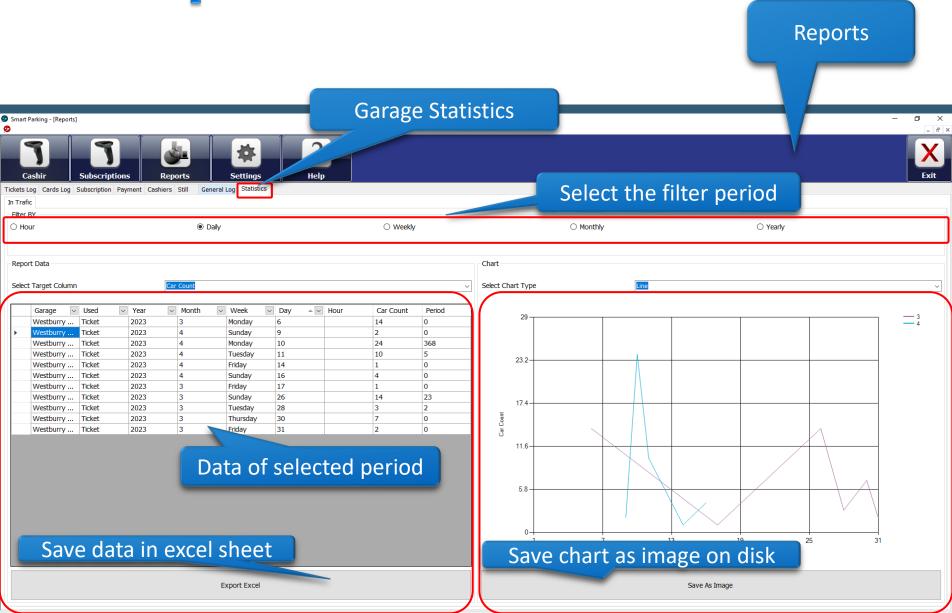
ID Card

Show Card ID Image

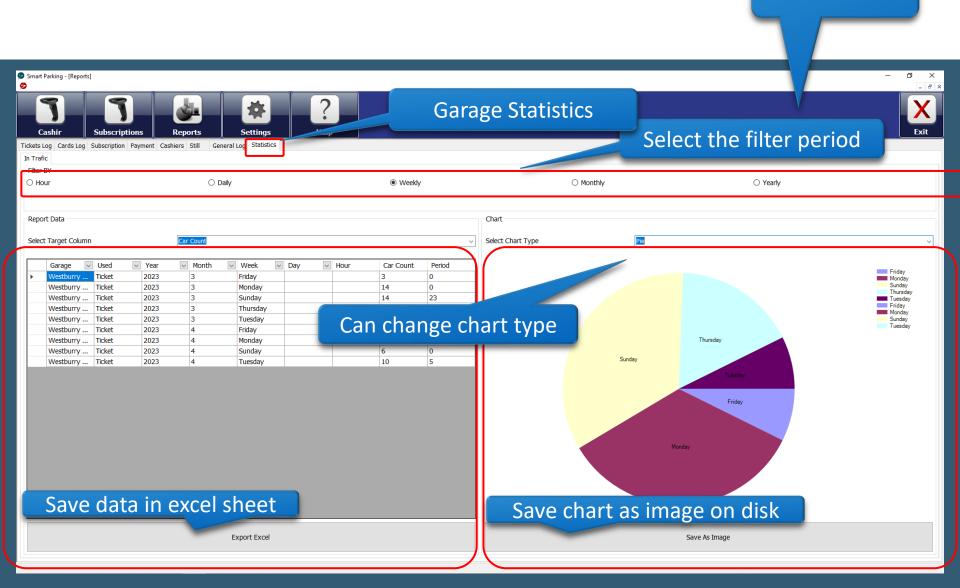






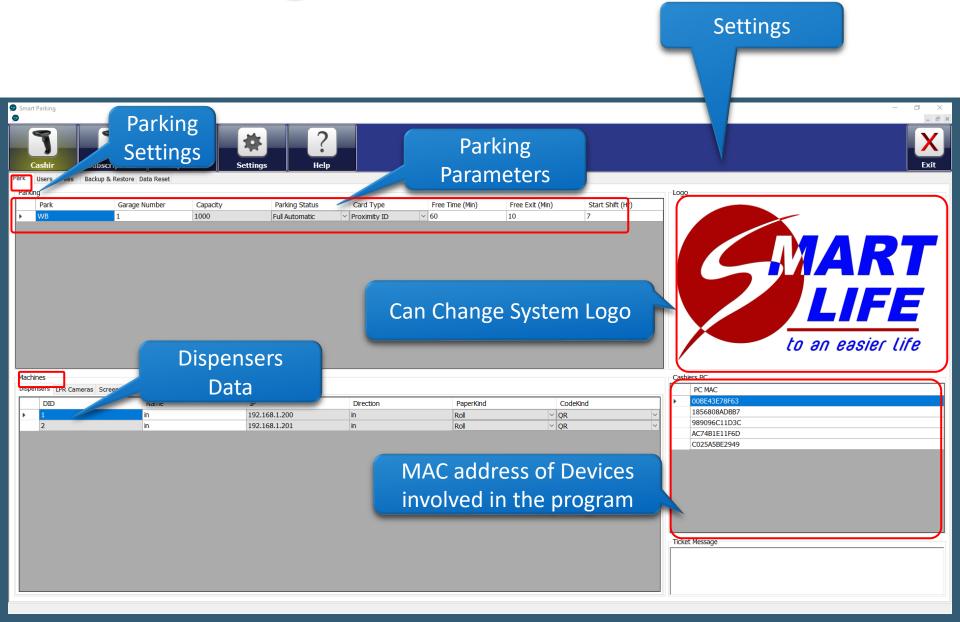




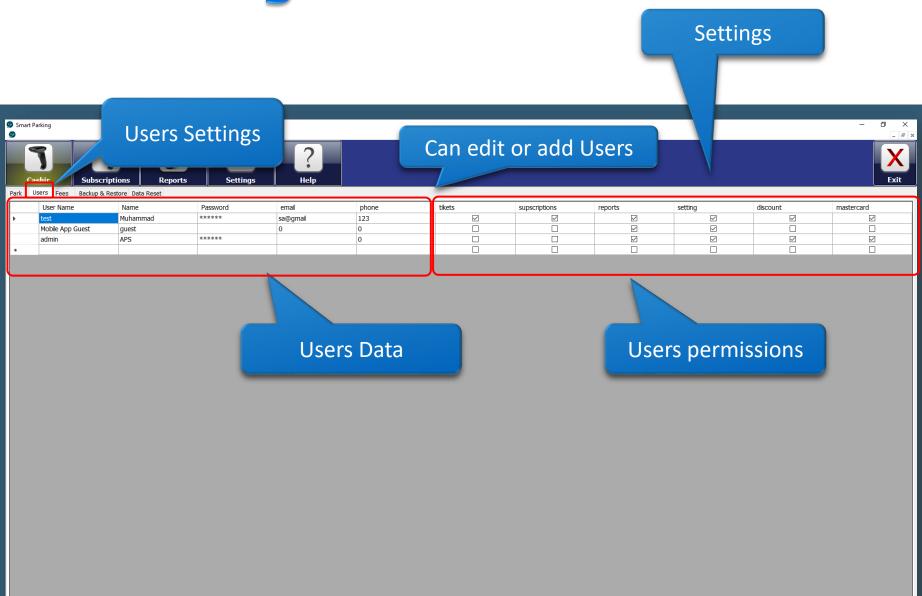


Reports

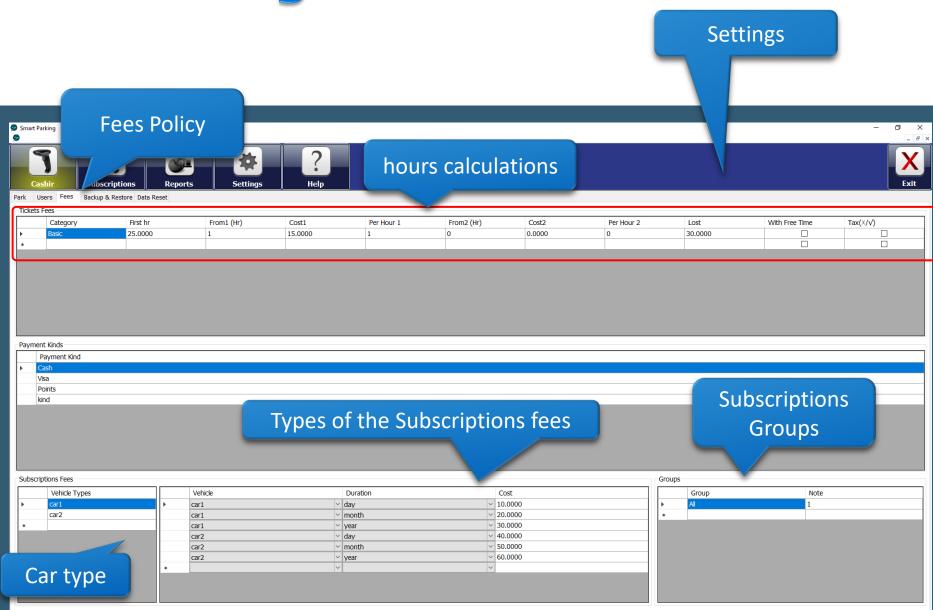












System Screens

Main screen



You Can Logout of the System

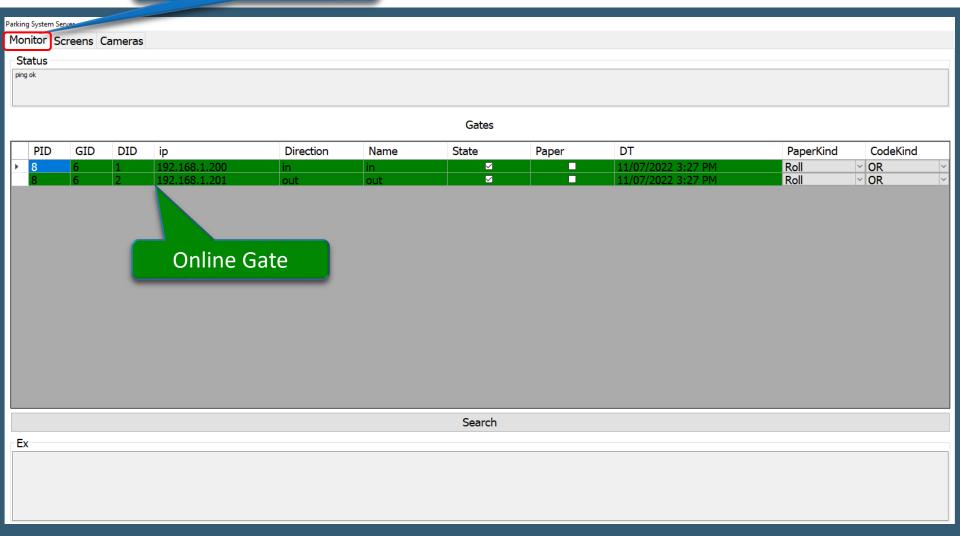




Server System

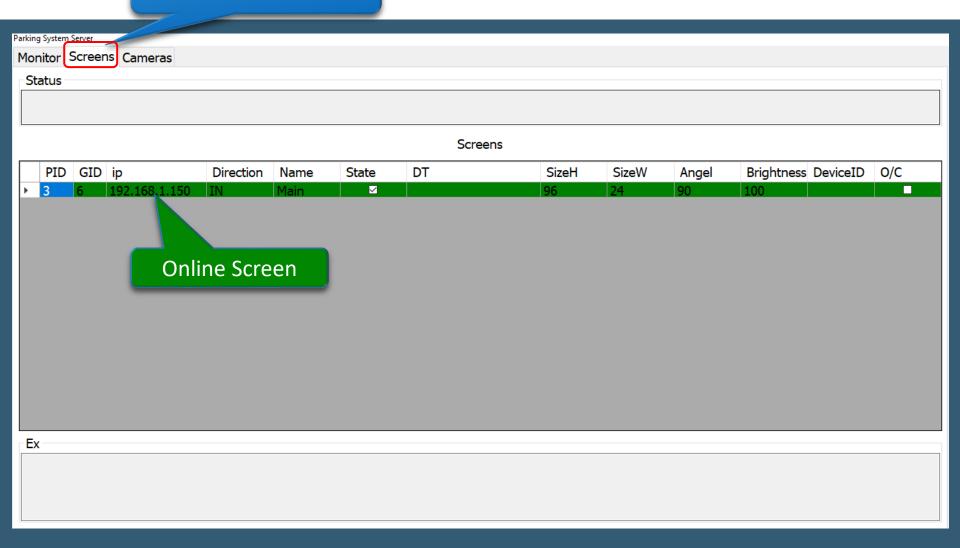


Server Gates Monitors



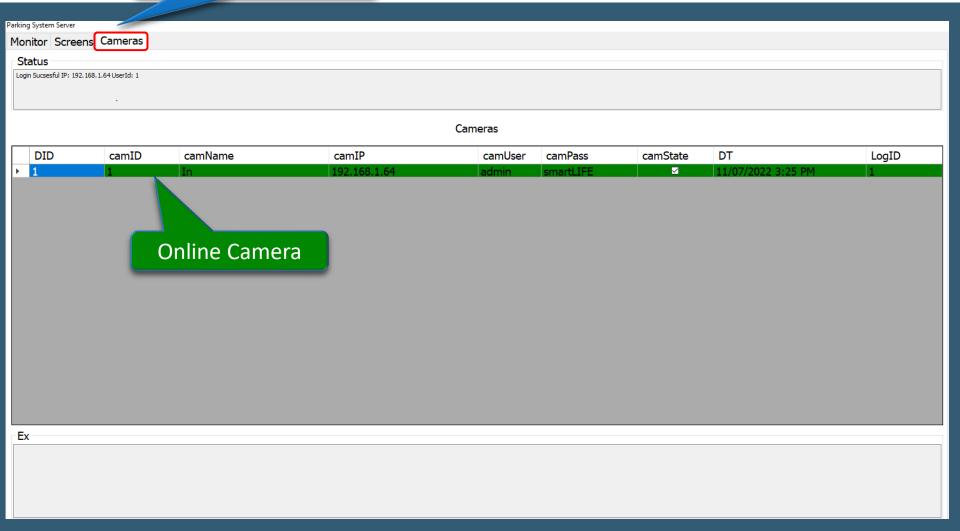


Server Gates Screens





Server LPR Cameras



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