

Sharing Scooter Solution

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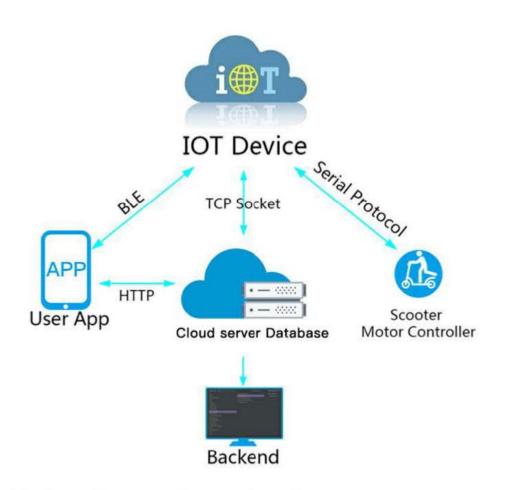
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Part I . Application description

The sharing-- electric scooter project is prevalent in North America, Europe,

Southeast Asia and other countries and regions. The whole project mainly includes
three parts of operation system software, IOT device and electric scooter, which will
solve the last one kilometer problems indeed.

Major part of the relationship diagram



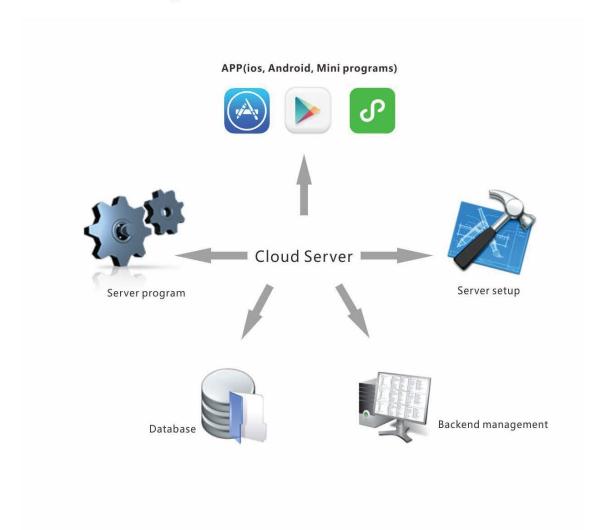
Part II . Full software introduction

2.1 Operational system software

2.1.1 Operating system software mainly includes:

- APP (Android, IOS)
- Cloud server and database
- Backend management system

2.1.2 Relation diagram



2.1.3 The major functions for each part:

Database: MYSQL

Mobile APP for users:

- User login, registration, recharge (registration by mobile phone number, real name authentication)
- All free scooters (unused, unreserved scooters) are shown on the map.
- Click on the scooter on the map to get the path plan from the user's current location to the location of the scooter
- Make a reservation for scooter (other users cannot unlock the scooter that has been reserved). The appointment can be canceled.
- Unlock the scooter by scanning the QR code or entering the scooter number
- Automatically be billed after the end of the ride
- View previous riding records (including riding distance, time, cost, etc.)
- Users can modify their basic information (avatar, nickname, etc.)
- Information feedback (the malfunction scooter, damage, dirt, etc.)
- Users can share their cycling data to the social platform and recommend it to friends.

Cloud server:

- User authentication, login information management
- Device information storage management of vehicles and locks
- Server program controls each instruction for processing and forwarding
- Send scooter information, location request, unlock request, appointment request
- The server program decrypt the active information sent by the IOT device, and
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then encrypts the processed result and sends the information to the mobile client.

- Decrypt the information of the mobile client and communicate with the IOT device.
- Vehicle information management, which supports managing information data in the background.
- Request the location of the scooter in an abnormal state according to the management program (such as low battery, alarm, etc.)

Backend Management:

- View the location of all scooters on the map (can be filtered by conditions, such as low battery, unlocked, etc.)
- Control the state of the skateboard, such as remote opening, closing, speed, and the scooter can be positioned immediately.
- Obtain scooter information, such as GSM value, battery power,unlock/lock status, position coordinates, etc.
- Count the using frequency of each scooter (such as the number of daily unlocks, monthly unlocks, etc.)
- Statistics on using frequency for each user
- User register management
- User order management
- Vehicle sub-regional management

- Maintenance personnel authority management
- Advertising, promotion management

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Part Ⅲ. IOT device

3. 1 IOT devices mainly have two placement modes:

Built-in scooter

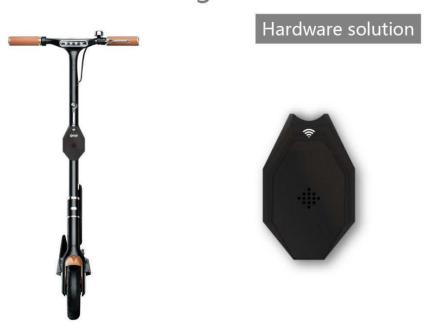


IOT Controller Built-in Smart lock



External reference:

Sharing electric scooter



3. 2 Specifications for IOT device

| SPE | C of IOT Device | |
|---------------------------------|---|--|
| | VER1.0 | |
| Item Model | OT303BL/OT304BL | |
| Cloud Communications | TCP socket | |
| Communication network | 2G/4G LTE (Optional) | |
| Connectivity/BLE | BLE4.0 (2402-2480MHz) (Auxiliary unlocking) | |
| 4G Bands of Northern America | FDD-LTE B2/B4/B12 | |
| /ersion | UMTS/HSPA+ B2/B5 | |
| | FDD-LTE B1/B3/B5/B7/B8/B20 | |
| 4G Bands of EMEA Version | TDD-LTE B38/B40/B41 | |
| - To Ballas d' Elvies l'Version | UMTS/HSPA+ B1/B5/B8 | |
| | GSM/GPRS/EDGE B3/B8 | |
| | FDD-LTE B1/B2/B3/B4/B5/B7/B8/B28 | |
| 4G Bands of Australia Version | TDD-LTE B40 | |
| | UMTS/HSPA+ B1/B2/B5/B8 | |
| | GSM/GPRS/EDGE B2/B3/B5/B8 | |
| GNSS | GPS+GLONASS/GPS+BDS | |
| Antenna Efficiency | Celluar>40%; GPS>70% | |
| Unlocking Time | 1-3s | |
| Geo location Precision | 2.5m-15m (open field) | |
| Geo location Time | Hard/Cold Boot <35s; Soft/Warm Boot<1s (open | |
| Voice Prompts | Electronic Horn; | |
| Motion Detection | Triaxial Accelerometer | |
| Operating Temperature | -20°C 70°C | |
| Storage Temperature | -45°C—80°C | |
| Operating Humidity | 93%RH | |
| IP Rating | IPX7 | |
| Standby Current | 5-10mA (5VDC) | |
| Battery&Communication | Spin-36V GND TY (TTI) RY (TTI) | |
| Built-in Lithium Battery | 3.7V/900mAH | |
| Backup Battery Life | >2h | |
| Battery Supply Voltage | 36VDC | |
| Certifications | FCC/CE/*other customized certifications for different | |

| , | *SIM cards shall be provided by buyers | | |
|--|---|--|--|
| Main Features | | | |
| Lock&Unlock through both 4G and BLE4.0 | | | |
| Multi-mode geo location through GPS,G | GLONASS and BDS | | |
| User-defined Max. Speed | | | |
| Automatically or manually turn on head | light | | |
| Manually or remotely switch Riding Mod | des | | |
| Automatically start manually scooting (v | without power) mode once out of Geo-fence | | |
| Read scooter information remotely (speed, estimated battery life, distance travelled and | | | |
| Monitor charging state | | | |
| Play voice prompts and send out alarm sounds | | | |
| Electronic horn | | | |
| IoT device dismantled alarm | | | |
| Low battery alarm | | | |
| Illegal scooter movements or shaking ala | arm | | |
| Fallen down alarm | | | |
| Remote firmware upgrade of scooters a | nd IoT device(OTA) | | |

3. 3 Hardware interface protocol

IOT device <----> Scooter controller (serial protocol)

IOT device <----> App (Bluetooth communication protocol)

IOT device <----> Server (TCP SOCKET)

3. 4 Integration among scooters ,IOT device, and operating systems

IOT device <----> Scooter controller : by scooter controller manufacturers

IOT device <----> App: completed by the software developer

Omni provides the corresponding communication protocol and technical support.

Part V. advantages

- Ultra-low power consumption and ultra-high sensitivity design to ensure reliable connection.
- Innovate system working mode, improve product operation stability.
- Low operating and maintenance costs.
- Reduce the rate of lost scooters, without losing contact!
- Millions of devices are operating stably.
- Over 100,000 fatigue tests and environmental reliability tests
- The R&D core team has more than 10 years of experience in software and
 hardware deep R&D testing and accumulation of underlying algorithms for a large
 number of related products such as GPS, GPRS asset tracking products, electronic
 locks, and Bluetooth intelligent hardware.
- Support for bulk order production, an average of 10,000 units / day.
- Waterproof and dust-proof: The waterproof level is above IPX7, so the rainstorm
 does not damage the device. It is still available even soaking in water for a short
 time.

PartVI. customized instructions

- The shape structure of the IOT device can be customized:
- The function of IOT device can be customized:
- The color, LOGO, QR code of IOT equipment can be customized: MOQ2000.
- Other customization: negotiation between the two parties

Part[™]. technical support

- System software, hardware, firmware, shape, structure integration solution output
- After the project is launched, the specially-assigned person will follow up the project and provide comprehensive support
- Discussion groups can be established to ensure real-time communication and timely feedback.
- Provide training based on docking needs.

Part[™]. Cooperation process

Defining guest functional requirements — > initial docking between IOT equipment and motor controller, initial docking between IOT equipment and system software — > sending sample to test — > function confirmation -> signing

| Model | Picture | | Specification |
|--------|---------------------------|---|-------------------------------|
| | Sales point : | Brand Name: | Sharing scooter |
| | 8.5 inch | Model Number: | OS-303 |
| | Foldable: | YES/NO | |
| | Tire Size: | 8.5inch | |
| | | Controller: | Brushless controller |
| | | Motor power: | 350w |
| | | Brake form | electronic brake, disc brake |
| | | Minimum load : | 25KG |
| | | Max load: | 100KG |
| | | Max speed : | 25KM/H |
| | | Max. Climbing Angle: | 14° |
| | | Terrain clearance : | 9cm |
| 7 | Range of tires: | Honeycomb tyres(no air) | |
| | Headlamp: | YES | |
| | led tail lamp: | YES | |
| | Horse race lamp: | NO | |
| | support mobile phone app: | YES | |
| | Bluetooth/Speaker: | NO | |
| 03-303 | OS-303 | Battery type: | 36v,10.5Ah |
| | 1 1 | Range Per Charge: | 30-35KM |
| | 200 | Charger Voltage : | 110V~240V 50-60Hz |
| | | Charging Time: | 3-4h |
| | | Voltage: | 36v |
| | | Working Temperature: | 10°C-40°C |
| | | N.W.: | 12KG |
| | | G.W.: | 15KG |
| | | Product size folding before | 105*44*115cm |
| | | After the product dimensions are folded | 105*44*48cm |
| | | Package Size: | 112*16*52cm |
| | | Material: | ABS+PC+Al alloy |
| | | Accessories : | Standard Charger, User Manual |
| | | Color & Logo | Custmizaion MOQ250pcs |
| | | Certification: | CE/ROHS/FCC/MSDS/UN36:3 |