



## Smart City Payment Solution

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### 1. Introduction to conventional payment solutions:

India is becoming digitized in the financial technology space. With the digital wallets and digital accounts, the payment solutions are facilitating the modes of payments. The modern technological payment systems also take care of the regulatory and compliance aspects, thus revolutionizing the payment. The introduction of blockchain technology also eases the payment solutions. In this use case, we discuss about the different payment solutions using digitized payment for various payments to utilities, bills, purchasing tickets and car parking and in transport system. The transaction happens in a secured way, and instantly.

### 2. Blockchain Technology as a solution to Smart Pay -HC Remit:



Internet of MONEY



Instant Reconciliation



Secure Document Sharing



Auditable and Transparent

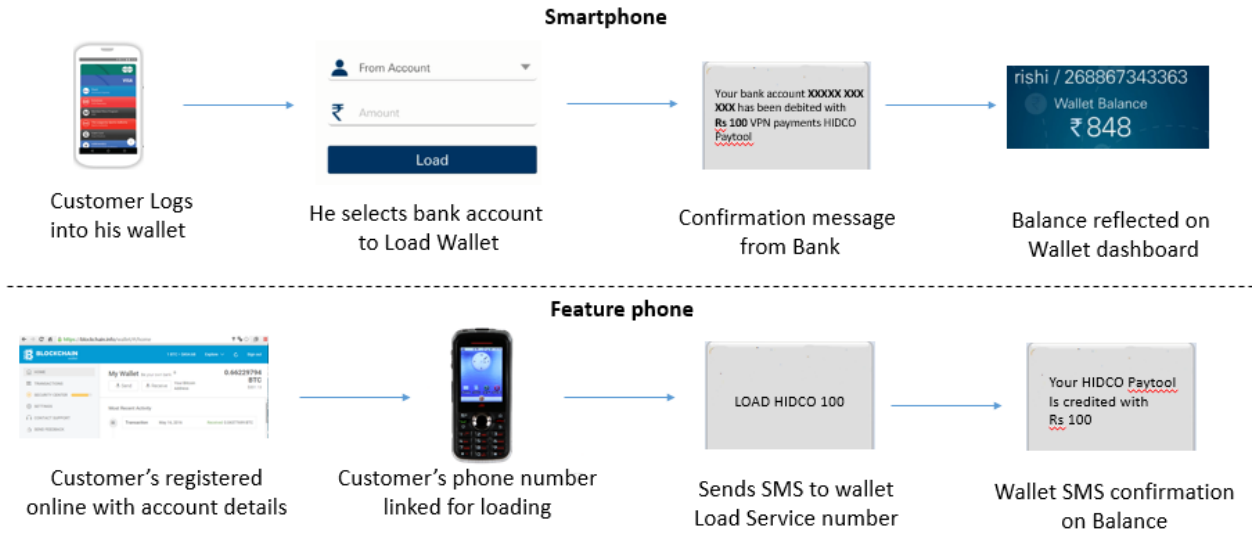


Trust free transactions

The blockchain technology addresses lots of issues in designing payment solutions for smart city. The transfer of money takes place digitally, with instant reconciliation. The document sharing is secured between different parties. As the blocks are immutable they are more auditable and maintain transparency across all systems. The transactions are trust free, as there is visibility of transaction across the parties.

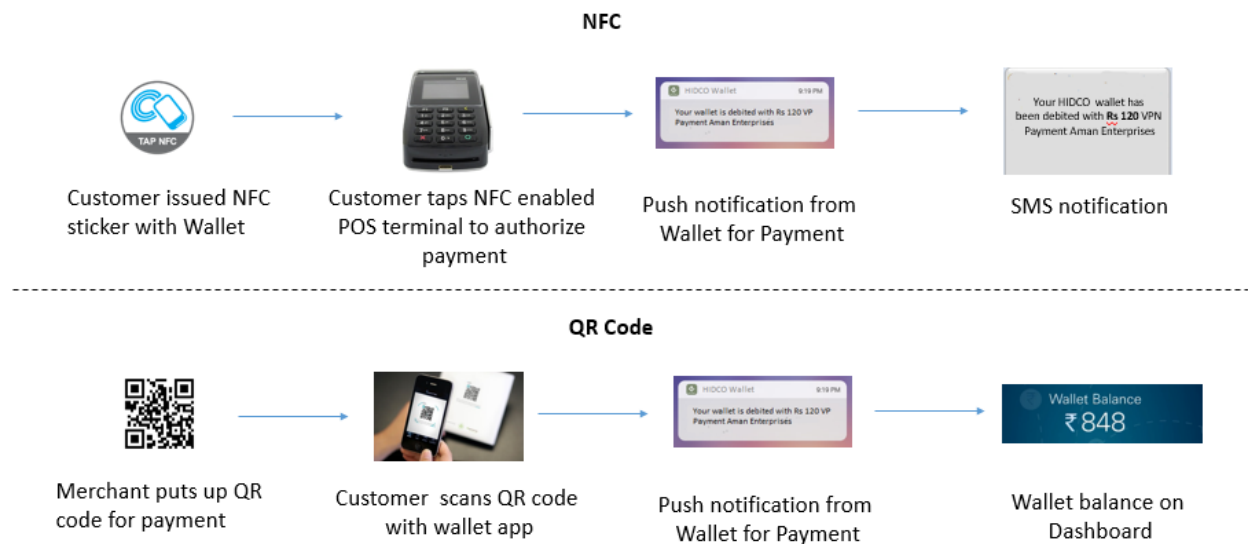
The process envisioned will have several steps for remitting through HC Remit. The payment solution typically follows the following steps:

#### 1. Customer loads his wallet:



The customer can load his digital wallet account using mobile phone. The balance once loaded is reflected on wallet dashboard or by incoming message.

**2. Customer transacts with Vendor:**



Customer transacts with Vendor using NFC sticker with Wallet. Customer taps NFC enabled POs terminal to authorize payment or by QR code using wallet app.

**3. Smart Car Parking**

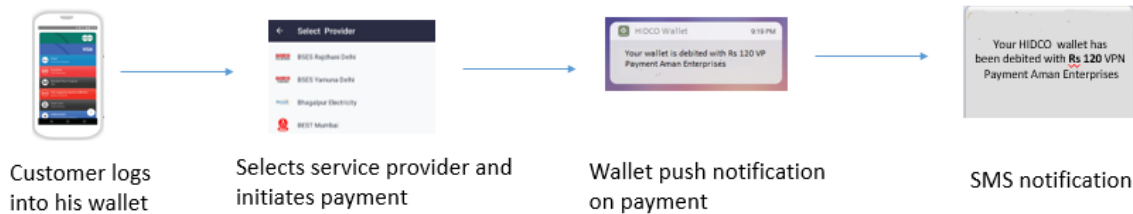
**Smart Car Parking**



The car parking payment in Smart City happens through the NFC tag linked to wallet with RFID enabled parking meters. The payment happens through Blockchain with SMS notification.

**4. Bill Payment**

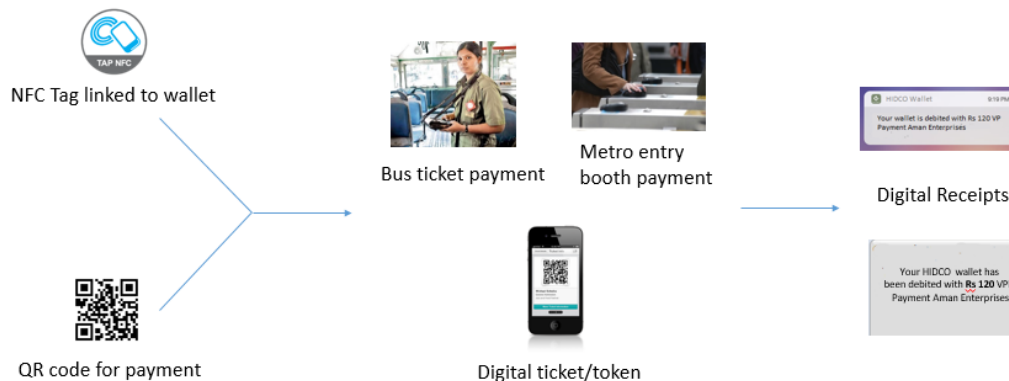
**Bill payment**



Bills and utilities payments are made easier using blockchain technology. The customer logs into his wallet, selects the service provider. The payment is made and notification received at customer's end.

**5. Public Transport Payment**

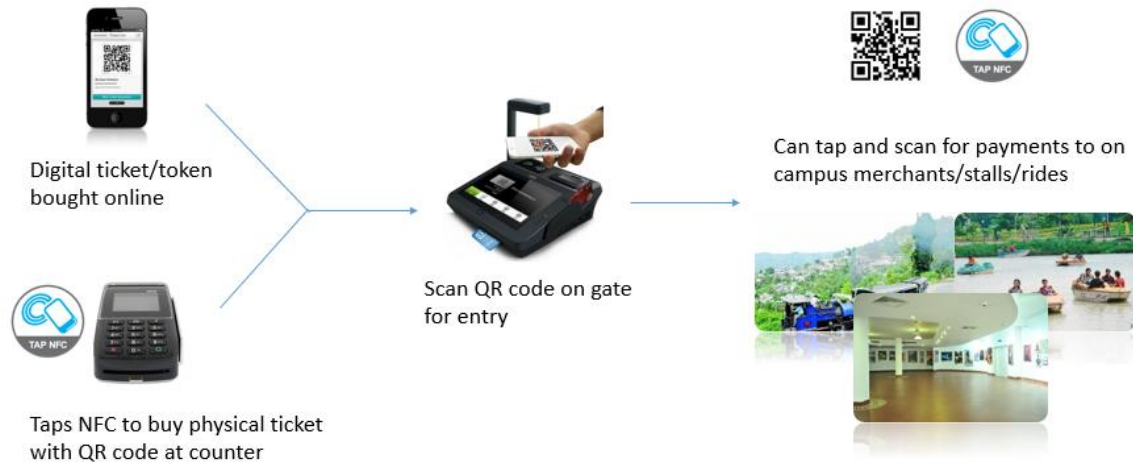
**Public Transport Payment**



The payment in car parking happens through NFC Tag linked to wallet or QR code for payment at bus and metro stations generating digital receipts.

## 6. Payment for theatres and Parks

### Payment for Theatres and Parks



The payment in Smart city amusement parks are also possible using digital token and QR code for buying tickets.

### 3. Summary:

The block chain technology with addresses the issues in payment domain. The settlement occurs real time and settling the transaction on a real-time basis. It also resolves the issue of visibility of end to end transaction in the form of SMS or wallet balance in Dashboard. The payment is thus facilitated with real time settlement. The payment solution offered resolves the issues of instant payment in a digitized and secured way.