GENERATES QR CODE (4.4)

ITEMS TO BE SCANNED BY RFID SCANNER FOR SECURITY CHECK

(3.3)

UPDATED INFO

(2.2)

SENDS SCANNED INFO TO RFID SCANNER

(5.5)

INPUT

:MOBILE APP

:USER

:SERVER

:RFID SCANNER

:SCANNER

:ITEMS

6.6

**SEQUENCE DIAGRAM FOR EASE OF CHECKING OUT AND REDUCING THE CROWD DURING WEEKENDS AS WELL AS WEEKDAYS**

\*\**POINTS*

(2.2) – SCANNING OF BARCODES FROM THE ITEMS

(3.3) – SENDS INFORMATION TO THE SERVER

(4.4) – THE SERVER GENERATES QR CODE AFTER SUCCESFUL PAYMENT

(5.5) – THE MOBILE APP SENDS QR CODE TO THE QR CODE SCANNER

(6.6)- **condition**

if (QRcode == item code) //through rfid chips item code

{

don’t beep;

deactivate serial number;

}

else if ( no chips) // for offline customers

{

don’t beep;

}

else //for stolen items

{

beep;

}

:SERVER & :MOBILE APP *– (GENERALLY OWNED BY SHOPPING MARTS)*

***\*HF and ACTIVE RFID tags to be used because of High Frequency and own power source***

***\*Product cost may increase***

***\*To remove the 1st statement we can include security personal during checkout to cut down the tags.***

Check counter

:SCANNER

:RFID SCANNER

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SENDS SCANNED INFO TO RFID SCANNER

SEQUENCE DIAGRAM FOR BOTH OFFLINE AND ONLINE PROCESS.