

### **Scan&Connect**

Develop a unique QR code sticker similar to

FastTag

for car owners to purchase and affix inside their car windshields.

When the car is parked incorrectly, anyone can scan the QR code using their phone camera or Google Scan.

The person scanning can choose from predefined messages to send to the car owner or directly call them.

Both parties' contact numbers are masked for privacy during the call.

An emergency contact feature allows the caller to send an SMS to the emergency number specified by the car owner and also view the scanner's location. This feature can be particularly useful in case of accidents or other emergencies.

**Sticker :** A single QR code that has front glue. Sticker size 2\*3 Code : QR code - 6 character alphanumeric unique code.

**Serial Number :** 5 digit unique Counter starting 10001

**Owner :** A user that purchases a sticker and applies it on his vehicle.

**Emergency :** A contact of the sticker owner who must be informed in case of any casualty with the car owner.

**Seller:** Individuals that will act as retailers and sell stickers

**User :** Anonymous person who scans the code from his mobile

**Sheet :** A 12\*18 inch sheet which is sent for printing. Each sheet has 36 stickers. Each QR is repeated twice. So total 18 different QR in one sheet

### **Admin Left Menu**

Dashboard

Codes

Orders Sellers

Owners

## Dashboard :

Show Counters

Total Scans till date

Total Stickers Sold

Total Stickers Active

Total Amount Sold

Total Amount Received

Total Amount Due

Current Month - Stickers Sold

## Codes

(

datatables

listing)

Code Serial Number Range

Units

Creation Time

Top Button 'Print Code'

Top Button 'Search Code'

## Print Code

: Sticker Print File Generation. Sheet size of 12\*18.

Number of Sheets (Hard-Coded to 10 & Non-editable)

Start Serial Number (AutoFill & Non-editable)

End Serial Number (AutoFill & Non-editable)

Print Code (must be saved in defined file location with server

datetime

as folder name)

Apply the check that the serial number must be unique and must not pre-exist in the system. Give validation error - '10004 Serial Number already exists'

Creation Timestamp (not entered from screen, take server date time)

Display Success Message

Status of each code in db will be New.

Status\_type\_id

will be 1

Seller will be null

Call Minutes will be 80

SMS count will be 0

**Search Code**

: Enters scan code and clicks ' Get Details' :

QR Code : 6 digit alphanumeric value always unique

Serial Number : 5 digit numeric number starting 10001

Sticker Status

(Inactive, Active, Disabled) link -  
change status

Owner Name

FirstNameLastName

Owner Mobile

9876543210 (this will be 4 digit OTP verified)

Vehicle Number

Emergency Mobile

# Call Minutes Remaining

## SMS Sent

### 5. Orders

Order Id

Serial Number Range

Stickers Count

Seller

Unit Price

Amount Total

Amount Received

Amount Pending

Action - 'Update Status' (on click asks 4 digit pin and then status of each QR code changed to 'Disabled

' or 'Active' or 'Inactive')

Button - 'New Order'

### 6. New Order

Start Serial Number

End Serial Number

Assign Seller - Seller Dropdown (Seller for all these serial numbers must be null in the system, else show validation - '10005 Seller already assigned')

Unit Price

Total Amount (non editable, auto calculation)

Advance Received

Amount Pending (non editable, auto calculation)

### 7. Sellers

Seller Name

Phone

Email (optional)

Company (optional)

AddressLine

(optional)

Total Amount (non editable, auto calculation)

Advance Received

Amount Pending

Link - View Codes Purchased (This will be a list along with timestamp)

Name

Phone

Emergency

Serial Number

Scan Count

Call Minutes

SMS Count

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**Domain : scan-connect.com**

On scanning code, user will be redirected to a responsive web page in React This will be the user interface.

Enter Vehicle Number

Enter Name

Enter Phone (OTP will be send to this number)

Enter Emergency (Mobile that will receive SMS incase owner met any casualty on road)

## 2. Verify OTP

4 digit OTP number

Resend OTP after 30 sec

Submit OTP

Message - 'You have successfully registered.

Redirect to Settings Screen

## 3. Login

Enter Registered Mobile Number

Enter OTP

Submit

Validation Message - 'This phone number is not registered'

## 4. Settings

Welcome [Name],

Registered Phone - [9876543210] (Non Editable)

Edit Profile

Name (editable)

Emergency Contact (editable)

AddressLine

(Optional)

iv

.

City (Optional)

Block/Society Name (Optional)

Parking Slot if any (Optional)

Submit

Status : Active-Inactive (Toggle button)

Remaining

Masking :

80 Minutes.

Alert message if Call Minutes is less than 5.

SMS Received : [count] till date

Text - 'Email

[care.scanconnect@gmail.com](mailto:care.scanconnect@gmail.com)

for Support'

## **5. Recharge**

Text Message

Payment Mode -Dropdown By default Select (only value UPI QR)

Button - Make Payment

Display QR code on click of 'Make Payment'. (send email alert to

[care.scanconnect@gmail.com](mailto:care.scanconnect@gmail.com)

)

Display Text - After successful payment, your call masking will get activated within the next 48 hours.

## **6. Contact Vehicle Owner**

Display Vehicle Number

Select Message reason and send message (Call

WebServiceSendSMS

)

Select Call (Check Call Minutes - If not 0, then API call else check masking status. If allowed then open dialler

to call. )

Send an Emergency Message. Take permission to get location. Fetch latitude & Longitude. Send SMS with location.

## **7. Message Screen**

a. Empty screen with text only to show messages like

'This Sticker is disabled by the seller. Please contact the point from where you purchased the sticker'

'This Sticker is currently deactivated. Please try next time till car owner activates it'



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## Scan Flow

Scan QR Code using phone camera

Redirect to Web Page: Use a URL redirection mechanism to pass the decoded QR code data to the designated web page. This can be done by appending the data as parameters in the URL or using JavaScript to trigger a POST request with the data. Example -

<https://scan-connect.com/?code=ABC123>

On the web page at <https://scan-connect.com/>, use JavaScript or server-side scripting to extract the code parameter from the URL. For example, in JavaScript get the URL parameters :

Retrieve following details from db for this code

Code

Status :

If the status is Disabled, show a message. 'This QR code is not currently active. Please contact the seller to activate'

Owner

Details :

IfOwnerId

is not null, then show 'Contact Owner' Screen, else show 'Register' Screen.

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CallMinutes

' & '

MaskingFlag

' & '': If call minutes are not 0 then make a call via API. Else make call via

Dialler

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1. GetCodeDetails	
2. SendOTP	
3. RegisterOwner	input vehicle number, phone, name, email, OTP

On successful registration, update code status to ‘Active’

4. MakeCall	
5. SendSMS	
6. SendEmail	
7. SetMasking	
8. SetCodeStatus	
<b>Database Tables :</b>	
<b>TABLE CODE</b>	
- CODE_ID	
- VALUE	
- SERIAL_NUMBER	
- CALL_MINUTES	
- SMS_COUNT	
CODE_STATUS_TYPE_ID	
OWNER_ID -	
SELLER_ID	
- GENERATION_TIME	
- ACTIVATION_TIME	date timestamp
- LAST_SCAN_TIME	
<b>TABLE OWNER</b>	

- OWNER_ID	
- NAME	
- PHONE	10 digit numeric
EMERGENCY_PHONE EMAIL ADDRESS_LINE CITY BLOCK_SOCIETY	
- REGISTRATION_TIME	
- VERIFICATION_FLAG	
- OTP  TABLE <b>CODE_STATUS_TYPE</b>	
- CODE_STATUS_TYPE_ID	

- STATUS

CODE_STATUS_TYPE_ID	1	
STATUS	NEW	

TABLE MESSAGE\_TYPE

MESSAGE\_TYPE\_ID

1 TO 5

- VALUE TABLE <b>SELLER</b>	take from design
SELLER_ID  NAME  PHONE  EMAIL  COMPANY	PK

TABLE ORDER

ORDER\_ID  
SELLER\_ID  
START\_SERIAL\_NUMBER  
END\_SERIAL\_NUMBER  
UNIT\_PRICE  
TOTAL\_AMOUNT  
AMOUNT\_RECEIVED  
PURCHASE\_TIMESTAMP

**TABLE USER**

USER\_ID  
NAME  
PHONE  
LAST\_LATTITUDE  
LAST\_ LONGITUDE  
LAST\_SCAN\_TIME  
LAST\_SCAN\_CODE\_ID

Frontend - React

Backend - Laravel CI

Admin - Admin LTE 3 or Flexy  
Bootstrap Admin Theme

Database - MySQL

Call Masking/SMS - MyOperator