

ABSTRACT

The objective of this project is to build a real time shopping experience for consumer supplies using Quick Response (QR) code in an Android smart phone. The QR codes are meant to provide the consumer with more information on the product before they make their purchase, as well as allow them to make the purchase right from their phone. How satisfying is avoiding long lines on Holidays? Exactly. One of the way in which retailers use QR codes are to prompt new products, offer coupons, compare prices in other stores, and allow direct online shopping. Not only a marketing tool but enhances customer service too! Some QR codes scanners are linked to the store inventory and can actually tell you the quantity, size and color currently in stock of the product. Using Multiplexing and Demultiplexing process encode and decode the information from single QR code with special symbols and split the data back to their QR Code pattern where these QR Code pattern can be read by Android smart phones. Here we build a system which enables us to shop using QR codes. The customer scans the QR Code and purchases the products in a virtual board. Then they receive an OTP (a unique & random n digit number or alphabets) which is generated by the app itself which is used to identify the customer and the purchased items are given to the customer. The bill can be paid via online or offline.

This project contains following modules:

MODULES

(i) Admin Module

- **Add Staff**

In this function used to add staffs into the database through the user interface.

- **View Staff**

In this function used to view the stored details of the staffs

- **Add Products**

In this function used to add products into the database through the user interface.

- **View Products**

In this function used to view the stored details of the products.

- **View Bill Report**

In this function used to view the billing details of the purchased items.

- **View Rating**

Admin can see the details of the rating details of given by the user.

- **Provide Offers**

It is used to add offers that provided by the shop by the admin.

- **View Offers**

In this function used to view the billing details of the purchased items.

- **View Stock**

In this function can see the stock details of products in the store.

- **Customers**

Through this function can see the customer details that stored in the database.

(ii) **Billing module**

- **Verify Purchase Code Entry**

In this function verifies the code that sends to the database by the users mobile.

- **View Reports**

It shows the purchase details of the products based on their date of purchase.

- **View Stock Items**

In this function can see the stock details of products in the store

(iii) **Store Module**

- **Stock Update**

This function is used to update the stock details from the store

- **Stock View**

This function is used to view the stock details

- **Out of Stock Products**

This function which shows the out of stock details that less than a fixed number of the products

- **QR-Code Generation**

In this function is used to create the QR-codes for each product

- **View QR-Code with Details**

Created QR-Codes shown in the section that stored in the database

(iv) **User Module**

- **Start Purchase**

In this function is used to start the purchase in android section

- **View Products**

User can view the products in android app

- **Offers**

User can view the offers in android app

- **Contact Us**

It shows the details of the corresponding shop that uses the software

- **Rate Us**

Providing this facility for the users to give their feedback through the rating

- **Recent Purchases**

Through this facility user can see the recently purchased items in the cart

REFERENCE

- <https://www.zaubacorp.com>
- <https://www.bestbuy.com/?intl=nosplash>
- <https://www.tesco.com/>

SHOPPING WITH QR CODE

Submitted by

Sharon P Joseph

Shari Raju