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Data Storage and Billing System

Prof. P.V. Kothavle¹, Sejal Jakanur², Manasi Deshpande³, Prasanna Dalvi⁴, Prasenjeet Gangawane⁵

Department of Computer Science and Engineering,

Dr. J. J. Magdum College of Engineering, Jaysingpur, India.^{1,2,3,4,5}

Pravin.kothawale@jjmcoe.ac.in, sejaljakanur22@gmail.com, manasideshpande2400@gmail.com, dalviprasanna17@gmail.com, prasenjeetgangawane@gmail.com

ABSTRACT

The project is to create an app that is supposed to provide a service to the user, collect user usage records, and generate invoices, each payment cycle depending on the payment method, collecting payments and adjusting customer balances. The e-Billing system has the ability to design and analyze the basic payment system and key functions surrounding the payment system from a business perspective and explains how each one interacts to complete the payment cycle. Also, the development of a payment system template that is able to quickly, accurately and update a customer record and enable the customer to view credit information. This payment system can be installed in real world mode. For example, it may be used for a manufacturing company to have an active customer payment and may be used as a contractor for existing networks.

Keywords: Billing System, Data storage.

1. Introduction

The bill records the statement of the statement, as well as the transaction. The bill is used to keep business records when a person buys certain goods and any valuables. In order to maintain the smooth running of the bill from the creation of the bill, to review and publish the bill to regulate the whole process we need a payment system. The payment system was started in the Middle Ages when people

he started buying things. The store owner used to keep track of all the products sold to the customer and how many products there were in their warehouse. They are required to record all records in a personal record book. The bill is not just about keeping a record

for trade, the bill is used for many other purposes. They use data from credit to control additional costs and spend on what is needed and use it to grow their businesses. As technology came into the picture the management of written bills began to turn digital. Initially, they introduced a simple payment management system.

Software was used on computers to create and print a bill. The Administrator is only allowed to record and charge all purchased goods, employee details and change prices with the help of database functions. The goods are categorized on the website. Payment software can track employees' working hours, inventory number, and

costs associated with projects or clients. Most payment software applications are aware of this to create payment reports. These reports may show information such as hours worked, expenses incurred, payments made to customers, and what customers owe in the amount of those goods, total investment, and total monthly income.

Few examples of the billing management systems are:

1. Customer/Vendor Information:

2. Tax Code:
3. Purchase Order:
4. Invoice:
5. Sales Report:

2. Structure

1. Customer/Vendor Information:

All the information about the material and the details about material can be load in this tab

i)Material Info: Information about material (material, description, code, net weight, gross weight, sales unit, rate)

ii)Manage Material: One can manage the material information by using this option, One can delete, edit and update the information using this tab

2. Tax Code:

All the information about tax code will be saved in this tab

i)Creating Information: One can add information about tax code in this section

ii)Managing Tax code: One can manage the tax information by using this option, One can delete, edit and update the information using this tab.

3. Purchase Order:

All the information about purchase is load in this tab

i)PO information: PO number, date, invoice number, terms and conditions all this information is provided in this tab.

ii)Manage PO: One can manage the PO information by using this option, One can delete, edit and update the information using this tab

4. Invoice:

Information about Invoice

i)Creating Invoice: Number, customer, date, PO number, pay

ment terms all this information is mentioned in this section

ii)Managing Invoice: One can manage the invoice information by using this option, One can delete, edit and update the information using this tab

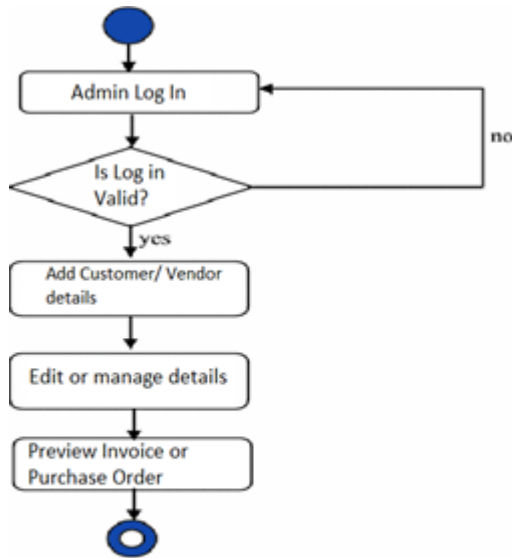
5. Sales Report:

Here one can get all the information about the customer and the order details.

In short one can get customers name, address, invoice number, date, material, quantity, rate, amount, tax code, total amount.

We are trying to make an easy interface so everyone can easily use this application and handle the actions smoothly without getting confuse. We had added some extra feature as per the requirement of Navtarang industry.

2.1. FLOWCHART



3. LITERATURE REVIEW

1. "Implementation of Improved Billing System"

"Baswaraju Swathi¹, Abhishek Kumar², Ishu Kumar², Vathsavi Venkat² May 2020

Article in "International Journal of Scientific Research in Computer Science Engineering and Information Technology"

Paperless billing is a process that businesses can use to get paid quickly and securely without dealing with the hassles of paper bills and check payments. Paperless bills allow bill delivery and payment to take place completely online, which improves efficiency while reducing costs. Paperless Billing generally involves integrating multiple systems. These include billing system, the banking industry, customer's paying system, as well as an online interface for the paperless billing system. Paperless billing is most helpful for businesses that send recurring bills to customers. Paperless bills are an option for delivering bills. Bills could be presented as electric documents, such as PDF, or on websites. This gives the customer the ability to review bills before sending payment. Alternately, customers can also set up automated payments in order to pay without even touching a button. We can shop and create bills by using the mobile application. Paperless Bills offer benefits to both the seller as well as the customer. Some of the biggest benefits from Paperless Billing include: Low cost of delivering the bills to customers better security than paper and snail mail Option for automatic storage of bill When user scans bar code from the product, the user application extracts the product data and displays it on the system application. The user is then asked whether they want to add more products. If user wants to add more products, the user can add it, otherwise user can quit and the bill will be generated and displayed on the screen with the price of the products totaled. The QR code is then generated. The customer can then scan the QR code and the bill will be transferred to the customer's phone. The bill can be saved by the customer on their phone.

2. "Smart Shopping Cart with Automated Billing System"

Meghana T K, Rahul S Bedare, Ramakrishna M, Vignesh P, Maria Pavithra Aug 2020

Article in "INTERNATIONAL JOURNAL OF ENGINEERING RESEARCH & TECHNOLOGY (IJERT)"

Currently, every person in the mall purchases the product placed in the trolley. Upon purchase, the person will have to stand in a queue for billing. In the billing process, an employee scans each product's barcode and bills it to the final. This process can take a lot of time and it can be even worse on holidays, special offers or weekends. To overcome this, a smart way to shop in malls has been developed. Each product has an RFID tag instead of a barcode. The Smart Trolley features an RFID reader, LCD module. When a person places any product on the trolley, it is scanned and the product's cost, name, and expiration date are displayed. The total cost will be added to the final check out bill. The bill is stored in the microcontroller's memory. Once the purchase

is complete, the purchase details are sent to the customer through the GSM module. Arduino IDE software tool is used for programming and Proteus software is used to check simulation results before hardware implementation.

3. "Smart Billing and Invoicing Software for Small and Medium Enterprises"

Prof. Chandrashekhar M V, Geetha A B, Shreeja M, Harshala S, Sagar H L Jan 2019

Article in "INTERNATIONAL JOURNAL OF ENGINEERING RESEARCH & TECHNOLOGY (IJERT)"

This paper proposes a billing and invoicing software which includes GST tax system. Purpose of this software is to maintain the stocks and provide efficient billing system. The main goal is to fulfill the requirements of the small medium scale Industries i.e., Easy to maintain the Stocks, Easy to generate bills to customers, Easy to generate various reports in one click. User can also use USB barcode reader to record the stock and generate invoices. In addition to this software, we are implementing an android app to make it smart and establishing the connection between them. By this app user can get information about the available products and make a list of required items without manually visiting the shop and can get the average price of all the listed products.

4. Conclusion

This was our project of system design lab about "Data Storage and Billing System". Development of this system takes lot of efforts from us. We think this system gave a satisfaction to all of us. Though every task is never said to be perfect in this development field even more improvement may be possible in this system. We learned so many things and gained a lot of knowledge about development field. We hope this will prove fruitful to us.

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