

INVOICE MAKER USING SMART PHONE

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ABSTRACT

In general seller issues a commercial document to the buyer related to a sale and indicating the products or services with respective prices is called as "Invoice". In invoice itself we state the payment terms. Invoicing is a difficult task in every system. Most of the time we use a manual process of invoicing which may cause the calculation errors, delays in updating to the system and fault in tracking issues are mostly companies facing problems. As like as in companies these types of problems occur in jewellery shops. In jewellery shops, they use papers for invoicing. It is difficult to maintain the papers for a long time. If one invoice is missed then there is a chance to lose a bi amount of money. For addressing this type of problem, we have an idea of a jewellery invoice maker application for android devices. Android devices become the handiness for most of people. By using this application, it is possible to do invoicing paper free.

Keywords: Application, Android, Invoice, Jewellery.

1. INTRODUCTION

From ancient times also Indian lifestyle included with jewellery. Jewellery consists of the decorative items worn for personal beauty such as rings, bracelets, Mangala sutras, and brooches. Jewellery may be attached to the clothes or body from the western perspective [1]. Indian women's life is deeply connected with the jewellery due to its great scientific terms. It not only represents its wealth it has great health benefits. The traditional way of invoicing is a wider set of business processes in trade, including ordering, fulfilling the order, delivery of goods, and the final payment. Invoice is generated after the payment by the invoice receiver. As the invoices are generated in the paper, it is somewhat difficult to maintain the papers. The drawbacks with the existing system are creation and entry errors, more operational costs. In the case of face-to-face transactions, handover to the customer there may be a chance of losing invoices. To avoid such types of situations there is a need to have an advanced form of invoicing. From past 2 decades the usage of the smart phones increased drastically. Mobile apps are

widely used in various industries. As a business, it is now needed to have an app. The android app remains to be the top option among businesses. Most of the customers use the android applications. This creates vast opportunities for any Android Developers. The android app stands as a support in business growth. It makes easier for any business to interact with the customers and also reach out to a wider audience. If we have a look at the past 10 to 15 years there is a drastic change in the availability and usage of Mobile Apps due to its flexibility and security provided by them. Even though there are websites but people are more adapted use of Mobile Apps. For example, the Facebook website is available but we preferred to use the Facebook app. Even though abundant number of invoices making websites are available this app is flexible to create invoice in least time.

2. TECHNOLOGIES

2.1 Android

Android is a mobile operating system based on a modified version of the Linux kernel and other open source software, designed primarily for touch screen mobile devices such as smartphones and tablets. Android is developed by a consortium of developers known as the Open Handset Alliance, with the main contributor and commercial marketer being Google.

Android's source code is basis for different eco systems, most Important of that is proprietary software suite called Google Mobile Services(GMS) that is preinstalled on said devices[2]. The architecture of android is shown in Fig. 1

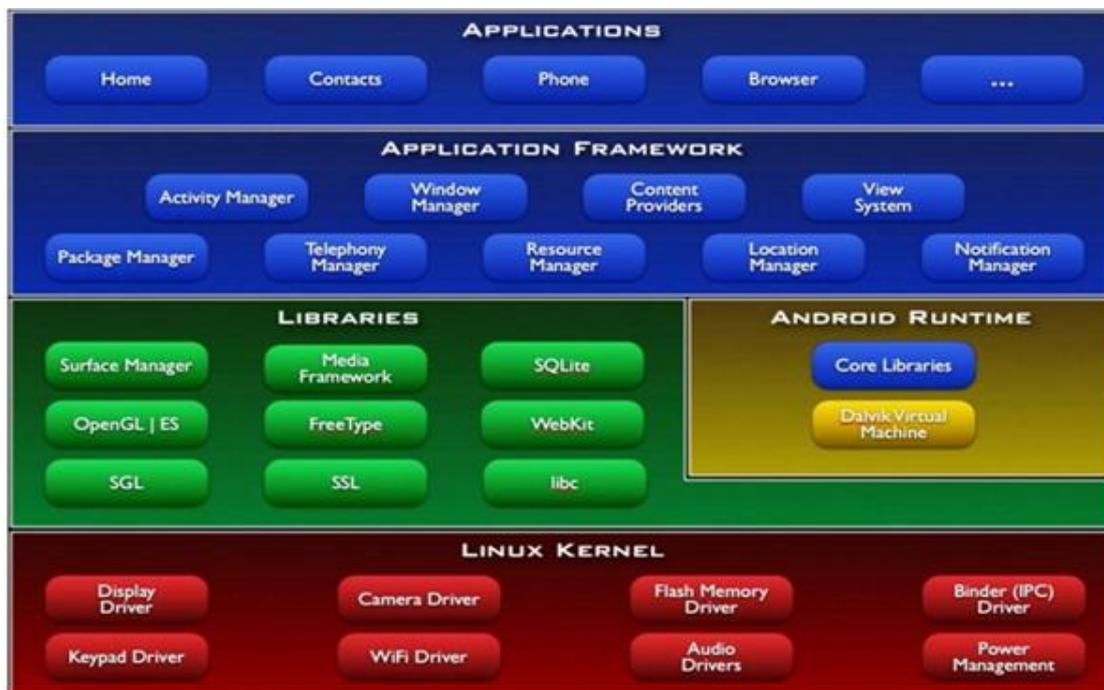


Fig 1: Architecture of Android

Features of Android:

- Highly customizable nature
- Reasonable Price
- High degree of ease due to presence of PC like apps.
- Hardware and Software features
- Full control over OS

2.2 SQL

SQL stands for the structured query language in database systems, SQL statements are used to generate queries from a client program to the database. This can allow users to do a wide range of data manipulation faster. It uses to provide the local database to the applications and the data resides in the user system. It works during the user is in offline.

3. LITERATURE SURVEY

In [3] the author proposed an online invoicing system based on QR code recognition and enterprise information cloud storage, which belongs to the application field of cloud storage technology.

In [4] authors present a bill-type document generator capable of supplying on demand all the mass of documents that a learning system needs. The lack of administrative documents has long been a handicap because of the confidentiality of this type of document.

In [5] authors propose an E-Invoice Framework, which aims at supporting data-oriented taxation systems that focuses more on direct tax-related data (e-invoice data) than taxpayers. The proposed framework includes a Secure Invoice Issuing System to generate e-invoices automatically and an Invoice Information Management Platform to provide invoice related services.

4. METHODOLOGY

4.1 Inventory

The very first step in this project is the user will enter particulars such as gold, silver, diamond to the inventory. Based on that entered particulars the invoice is generated in the inventory module it gets the quantity and its prize and the total amount paid or partially paid or unpaid is also given as input. All we do by using the ADD button.

4.2 Create A Bill

After the user gives the inputs in the inventory. Here they can create a bill. In this module we have Bill No, Date, Customer Name, Particulars quantity, and the charged prize, Labour, Extra things added to the product. By clicking the ADD button the amount to be paid is displayed .it is possible to add notes by clicking the GENERATE BILL will be generated. by clicking the DISCARD BILL will cancel the bill generation.

4.3 Transactions

After the bills are generated, they are captured and added as the transactions. This section contains all the pain, unpaid and partially paid transactions with their Bill No.

4.4 Customers

In this section, the user can add the customers in the contact list or add new customers. They can also edit or message or call to the existing customer. All the transactions did with the customer also users can see by a tap on customer contact.

4.5 Accounts

The accounts section contains all the transactions done by the user. In this section, all the sold or bought transactions are considered and the Profit or Loss will be calculated.

4.6 Labour

In this section, user add all the expenditures for a product such as Labor and Expenses

5. RESULTS

When the users open the invoice application, home screen as shown in fig 2 with different buttons such as Create a bill, Transaction, Customers, Inventory, Accounts, Labour. To create a bill or do any billing first the user need to add the particulars in the inventory. As shown in the fig 3. It is like a thing which are available in the store such as Gold, silver and Diamonds. After adding the inventory user can create a bill. The billing includes the selection of customer details, bill no, type of item customer purchases and the labor costs. It is also recorded that the bill is paid or no, it is as shown in fig.4



Fig 2: Home screen



Fig3: Inventory



Fig 4: Creating Bill

TRANSACTIONS	
Bill No - 5	Date - 04-04-2020
Name - Adhar Num	Total Amt - 640.0
No of Items - 1	Amt Paid - 640.0
Status - Paid	Net Amount - 0
Bill No - 4	Date - 11-03-2020
Name - 7 HILLS SIR	Total Amt - 40500.0
No of Items - 1	Amt Paid - 40500.0
Status - Paid	Net Amount - 0
Bill No - 3	Date - 11-03-2020
Name - Abida	Total Amt - 10200.0
No of Items - 1	Amt Paid - 10200.0
Status - Paid	Net Amount - 0
Bill No - 2	Date - 11-03-2020
Name - Abida	Total Amt - 2050.0
No of Items - 1	Amt Paid - 2050.0
Status - Paid	Net Amount - 0
Bill No - 1	Date - 11-03-2020
Name - 7 HILLS SIR	Total Amt - 4020.0
No of Items - 1	Amt Paid - 0
Status - Unpaid	Net Amount - 4020.0

Fig 5: Transactions

CUSTOMERS	
Name - Dinesh	Pending - Rs.0.0
Mobile No - 8106177586	Advance - 0.0
Name - saney	Pending - Rs.0.0
Mobile No - 7032887334	Advance - 0.0
Name - Sneha	Pending - Rs.0.0
Mobile No - 7702871515	Advance - 0.0
Name - Manoj	Pending - Rs.0.0
Mobile No - 7032887353	Advance - 0.0

Fig 6: Customers

ACCOUNTS			
Cash on Hand - 53320.0			
Sell		Buy	
04-04-2020	Gold	11-03-2020	Unpaid
12 Gm		100 Gm	
		Rs.100/Gm	
	Rs.120.0		Rs.10000.0
11-03-2020	Gold	11-03-2020	Unpaid
100 Gm		200 Gm	
		Rs.10/Gm	
	Rs.40000.0		Rs.2000.0
11-03-2020	Gold	11-03-2020	Unpaid
100 Gm		1000 Gm	
		Rs.10/Gm	
	Rs.10000.0		Rs.10000.0
11-03-2020	Gold	11-03-2020	Paid
200 Gm		20 Gm	
		Rs.5/Gm	
	Rs.2000.0		Rs.100.0
11-03-2020	Gold	11-03-2020	Paid
200 Gm		20 Gm	
		Rs.500/Gm	
	Rs.4000.0		Rs.10000.0
04-04-2020	Labour		
Details : gg			
	Rs.020		
11-03-2020	Labour		
Details : rings			
			Profit/Loss (without Stocks) - 57340.0

Fig7: Accounts

After the bill is created it will be added to the transaction record list as shown in fig 5. It also shows the status that is it paid or partially paid or unpaid bill. If user wants to add the new customer or edit the details of existing customer, it will as shown in fig 6.all the transactions are recorded and based on the selling and buying it will create the profit or loss in account section it is as shown in fig. 7.

LABOUR		EXPENSES	
Date-11-03-2020		Date-11-03-2020	
sggs	Rs.50	shsh	Rs.20

Fig 8: Labour

Fig. 8 shows the amount we spend for the creation of the things such as rings bangles etc. it includes both the labour and the other expenses.

6. CONCLUSION

As the need for invoicing is increased the requirement for reliable and flexible system is required. Smart phones have become important part of every one's life, have reduced all the efforts that required for invoicing. There are two advantages of having an application for invoicing. First one is every transaction is recorded and stored. Second thing is the transaction data is stored in user database. This ensures no modifications in data either by the customer or by any other user.

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