AUTOMATION OF BILLING AND INVOICE SYSTEM FOR KRIS

Prof. Swaroopani H. Manoor¹ and Prof. Pavan Mitragotri²

1²Department of Master of Computer Applications, KLS’ Gogte Institute of Technology

Abstract- This paper deals with the design and implementation of eBilling system for KriS, in which bill generation system is automated. It also provides facilities to search customer, products and maintains data security. It also consists of report generation system which allows generating summary reports, sales volume, sales trend and available stock. Part of the solution involves converting data from Microsoft excel to the database. It reduces the data entry work and provides quick implementation of the system.


I. INTRODUCTION

Overview of Proposed System

Existing System: Currently, the client (KriS) uses MS Excel to maintain their product list, customer list, and prints the invoice. However, it is not possible for them to share the data from multiple systems in multi user environment. There is huge amount of duplicate work and lot of scope for committing mistake. Whenever the product price is changed, it needs to be updates in each and every excel file. There is no option to find and print previous saved invoice. It also lacks in security related issues because anybody can access any report and sensitive data and can be manipulated. And also there are no reports to find out the sales volume, stock list, and summary report.

Proposed System: This eBilling and invoicing system is implemented to remove the flaws present in the existing system and making complete atomization of manual billing and invoicing system. This eBilling software provides the following benefits:

1. Money is saved on sending invoices: Currently, sending an invoice to a customer meant mailing or faxing it to them. This consumes much time following up on the invoice to make sure they received it and to determine when they’ll send over the payment. With eBilling software, time is saved and money is handled digitally. Cost incurred on producing the bill (paper and printing) and postage charges are also avoided in the proposed system.

2. Quicker payment: eBilling allows to instantly invoicing the customers no matter where they are located. Customers can quickly pay their bills online, which make the entire process fast and easy. It reduces hassle and stress of payments on the go.

3. Improved customer relationship: One of the keys to successful business is to maintain customer retention. This software allows business owner to stay regularly in contact with customers and to improve overall customer service. eBilling software provides facility to easily manage all customers related data and their accounts on your computer. This eliminates billing errors and ensures a solid relationship.

4. Organized billing system: In the absence of eBilling system, records of past invoices were typically stored away in a filing cabinet. If any discrepancies popped up, it required digging through the old paper records to sort out the billing dispute. With the proposed system, all the records of related to transactions can be easily accessed. Paid and owed invoices for each customer can be examined quickly and easily. This makes it faster than ever before to sort out any discrepancies or disputes.

5. Environmentally safe: It avoids usage of tons of paper every single year just for printing and sending invoices. This improves environmental impact while making a change that also improves the overall efficiency of the business.
II. SYSTEM ANALYSIS

**Business Requirements:** The business goal for the application is to support an increase in the productivity and complete automation of existing manual bill and invoice generation process. Business requirements are discussed below:

- A method required for sales representatives to store and access sales opportunity data and when a sale is generated, converts some or all of the information into a sales order without re-entering information.
- Each sales representative should be able to receive customer and sales data pertaining only to them.
- Single interface to be provided to enter or update product information with all necessary product details being received by sales staff.
- Manager should be able to receive his or her customer and appointment data along with detailed and rollup information for each sales representative on his team.
- Multi user environment should be supported.
- The executive should able to generate all type of reports
- Improved ability to analyze the customers buying habits. In particular, they wish to focus on identifying their best customers and building long-term relationships.

**Operational Requirements:**

The following requirements provide a high-level view of how the system will run:

- Processor consumption should not exceed around 80 percent during parallel uses.
- Incremental backups should happen.
- Information should be easily accessible and relevant for the sales representative and the company.
- Technical knowledge required accessing the data, generating ad hoc queries, track promotions, and view customer segmentation information must be minimal.
- Changes to data must be reflected immediately.
- The application must employ existing communications and networking infrastructure.

**System Requirements:**

These are additional constraints from a system perspective:

- Previous data of customer, product details are significant in the new system.
- The administrator must have the scope to monitor entire happenings from his desk.
- According to the roles and rights specified in the company, information must be accessible by everyone in the company.

III. IMPLEMENTATION

To implement the system many books [1][2][3][4][5] related to Visual basic, database management are being referred.

**DASHBOARD**
ALL ACCOUNTS

TRANSACTION PAGE

ALL PAID INVOICE
ALL EMPLOYEES

SALARY SLIP

PRINT SLIP
### SUPPLIER INVOICE

#### Inventory System

<table>
<thead>
<tr>
<th>Supplier</th>
<th>Status</th>
<th>Code</th>
<th>Name</th>
<th>Contact</th>
<th>Address</th>
<th>Additional Info</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### ALL SUPPLIERS

#### Inventory System

<table>
<thead>
<tr>
<th>INVENTORY</th>
<th>SEARCH</th>
<th>ALL SUPPLIERS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>All Suppliers</td>
</tr>
</tbody>
</table>

#### SUPPLIER INVOICE

#### Inventory System

<table>
<thead>
<tr>
<th>INVENTORY</th>
<th>SEARCH</th>
<th>ALL SUPPLIERS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>All Suppliers</td>
</tr>
</tbody>
</table>

---

@IJMTER-2016, All rights Reserved 62
IV. CONCLUSION

eBilling and invoice is playing a significant role in the growing world of ecommerce. Existing system in KriS spend vast sums of money in issuing bills and statements, and then in the collection of the due monies. Since Digital billing may be a way of addressing the issue, this software is developed to fulfill user and business requirement of KriS. However there is lots of scope to improve the performance of the eBilling and Invoice System in the area of user interface, database performance, and time required to process query.

REFERENCES