

Project Report
On

Canteen Billing System

Submitted by

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Final Year B.Sc. (Voc. CA) [Semester VI]

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Department of Computer Science

Shri Shivaji Science College, Amravati

Re-Accredited by NAAC with A grade with a CGPA of 3.10

“College with Potential for Excellence”

2016-2017



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Certificate

This is to certify that the project titled “**Canteen Billing System**” has been carried out by **Mr. Shubham H. Samarth** under partial fulfillment of the degree of **Bachelor of Computer Science B.Sc. (Voc. CA) [Semester VI]** of **Sant Gadge Baba Amravati University, Amravati** during the academic year **2016-2017**.

Date: _ _ / _ _ / 2017.

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External

Acknowledgment

The development of this project needed cooperation and guidance of number of people. We, therefore, consider it our prime duty to thank all those who had helped us through this venture. We express our deep sense of gratitude to our guide **Ku. V. M. Pawade** and **Ku. R. R. Patrikar** for their valuable guidance and their timely suggestions which helped us a lot in making this success.

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Declaration

We hereby declare that the project work entitled **Canteen Billing System** submitted to **Department of Computer Science** of **Shri Shivaji Science College, Amravati** is a record of an original work done by us the under the guidance of **Ku. V. M. Pawade** and **Ku. R. R. Patrikar** and this project work is submitted in the partial fulfillment of the degree of **Bachelor of Computer Science B.Sc. (Voc. CA) [Semester VI]** of **Sant Gadge Baba Amravati University, Amravati** during the academic year **2016-2017**. The results embodied in this project have not been submitted to any other university or institution for the award of any other degree or diploma.

Date: _/_/_/2017.

Mr. Shubham H. Samarth.

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Abstract

In this **Canteen Billing System** project we provided the automation in billing system in canteen. It helps the administrator to easily manipulate between all different items available in store and to print receipt for it. The application we provided is user friendly.

This project can be implemented in college canteen to reduce the work stress of administrator and to automate the system.

Introduction

The **aim of our project** is to develop a system that is meant **to generate and print the receipts of orders** placed by our beloved customers.

We used **Microsoft Visual Basic 6.0** as **front end** for developing our project. Visual Basic is primarily a visual design environment. We are going to create a VB application by designing the form and that will make up the user interface. Adding visual basic application code to the form and the objects such as buttons and the text boxes on them and adding any required support code in additional modular. We used **Microsoft Access 2007** as **back end** to maintain the list of our products.

The overall design of our project is so simple that a user will find it convenient and sophisticated. We provided our user the simplicity of VB application. For generating the bill our user have to just select the name of item, rate and quantity from provided list and thus in fraction of seconds the bill/receipt will be generated and ready to print for their and their customers' use.

Review of Project Application and Technology

Objective

This project will serve the following objectives:

- Add and maintain the record of available products.
- Add and maintain the description of new products.
- Provides a convenient solution of billing pattern.
- Make an easy to use environment for administrator.

Technology and Tools

- Front end: **Microsoft Visual Basic 6.0**
- Back end: **Microsoft Access 2007**

Hardware

CPU configuration

- Pentium dual core and above
- RAM 1 GB and above

Operating system:

- Windows XP Professionals and above

Future Scope

- This project will help the store keeper in fast billing.
- This project enable store keeper to maintain a great database of all products in the store.
- Easy to maintain in future prospect.

Analysis of Present System

Before we begin a new system it is important to study the system that will be improved or replaced (if there is one). We need to analyze how this system uses hardware, software, network and the people resources to convert data resources, such as transaction data, into information products, such as reports and displays. Thus we should document how the information system activities of input, processing, output, storage and control are accomplished.

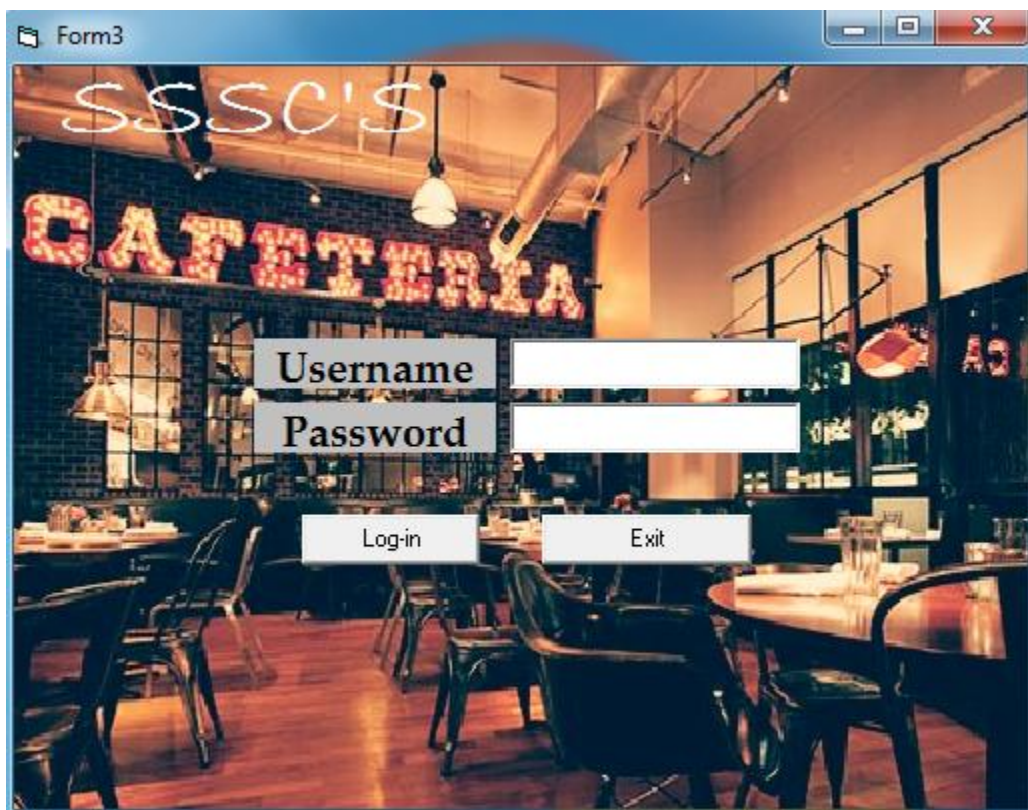
Problems of Existing System

1. **Lot of paperwork:** Existing system requires lot of paper work and even a small transaction require many papers fill. Moreover any unnatural cause (such as fire in the organization) can destroy all data of the organization. Loss of even a single paper led to difficult situation because all the papers are interrelated.
2. **Inability of modification of data:** The managing of huge data effectively and efficiently for efficient results, storing the details of the consumers etc. in such a way that the database can be modified as not possible in the current system.

3. **Not user friendly:** The existing system is not user friendly because the retrieval and storing of data is slow and data is not maintained efficiently.
4. **Manual operator control:** Manual operator control is there and leads to a lot of chaos and errors.

Design and Coding

Login Window



Coding for Login Window:

```
Private Sub Command1_Click()  
If Text1.Text = "admin" And Text2.Text = "12345" Then  
Form1.Show  
Else  
MsgBox "Please, Enter valid credentials."  
End If  
End Sub
```



```
Private Sub Command2_Click()
End
End Sub
```

Billing Window

Form1

Shri Shivaji Science College's
Cafeteria
Billing System

ITEMS	RATE	QUANTITY	PRICE
ITEM 1			
ITEM 2			
ITEM 3			
ITEM 4			
ITEM 5			

TOTAL

RECEIPT

Coding for Billing Window:

```
Private Sub Command1_Click()
Form2.Show
Form3.Hide
```

```
Form1.Hide  
End Sub
```

```
Private Sub Text12_Click()  
Text12.Text = Val(Text10.Text) * Val(Text11.Text)  
End Sub
```

```
Private Sub Text16_Click()  
Text16.Text = Val(Text14.Text) * Val(Text15.Text)  
End Sub
```

```
Private Sub Text20_Click()  
Text20.Text = Val(Text18.Text) * Val(Text19.Text)  
End Sub
```

```
Private Sub Text21_Click()  
Text21.Text = Val(Text4.Text) + Val(Text8.Text) + Val(Text12.Text) +  
Val(Text16.Text) + Val(Text20.Text)  
End Sub
```

```
Private Sub Text4_Click()  
Text4.Text = Val(Text2.Text) * Val(Text3.Text)  
End Sub
```

```
Private Sub Text8_click()  
Text8.Text = Val(Text6.Text) * Val(Text7.Text)  
End Sub
```

Receipt Window

[illegible]

Coding For receipt window:

```
Private Sub Command1_Click()  
Label8.Caption = Form1.Text1  
Label9.Caption = Form1.Text2  
Label10.Caption = Form1.Text3  
Label11.Caption = Form1.Text4  
Label12.Caption = Form1.Text5  
Label13.Caption = Form1.Text6  
Label14.Caption = Form1.Text7  
Label15.Caption = Form1.Text8  
Label16.Caption = Form1.Text9  
Label17.Caption = Form1.Text10  
Label18.Caption = Form1.Text11  
Label19.Caption = Form1.Text12  
Label20.Caption = Form1.Text13
```

```
Label21.Caption = Form1.Text14
Label22.Caption = Form1.Text15
Label23.Caption = Form1.Text16
Label24.Caption = Form1.Text17
Label25.Caption = Form1.Text18
Label26.Caption = Form1.Text19
Label27.Caption = Form1.Text20
Label29.Caption = Form1.Text21
End Sub
```

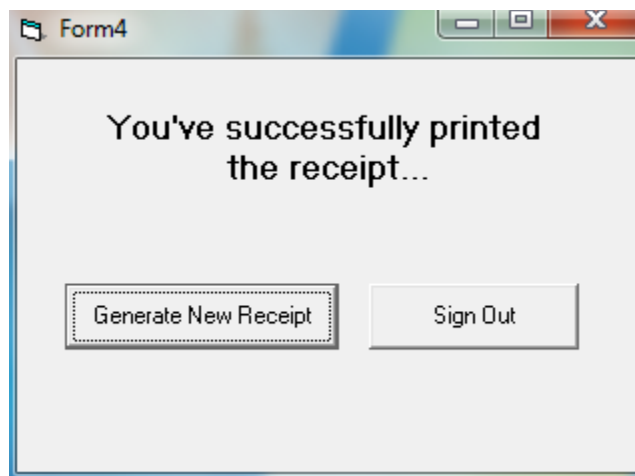
```
Private Sub Command2_Click()
Form1.Text1.Text = ""
Form1.Text1.Text = ""
Form1.Text2.Text = ""
Form1.Text3.Text = ""
Form1.Text4.Text = ""
Form1.Text5.Text = ""
Form1.Text6.Text = ""
Form1.Text7.Text = ""
Form1.Text8.Text = ""
Form1.Text9.Text = ""
Form1.Text10.Text = ""
Form1.Text11.Text = ""
Form1.Text12.Text = ""
Form1.Text13.Text = ""
Form1.Text14.Text = ""
Form1.Text15.Text = ""
Form1.Text16.Text = ""
Form1.Text17.Text = ""
Form1.Text18.Text = ""
Form1.Text19.Text = ""
Form1.Text20.Text = ""
Form1.Text21.Text = ""
CommonDialog1.ShowPrinter
```

```
Command1.Visible = False
Command2.Visible = False
'Form2.PrintForm
Form4.Show
```

```
Label8.Caption = ""
Label9.Caption = ""
Label10.Caption = ""
Label11.Caption = ""
```

```
Label12.Caption = ""
Label13.Caption = ""
Label14.Caption = ""
Label15.Caption = ""
Label16.Caption = ""
Label17.Caption = ""
Label18.Caption = ""
Label19.Caption = ""
Label20.Caption = ""
Label21.Caption = ""
Label22.Caption = ""
Label23.Caption = ""
Label24.Caption = ""
Label25.Caption = ""
Label26.Caption = ""
Label27.Caption = ""
Label29.Caption = ""
Form1.Hide
Form2.Hide
Command1.Visible = True
Command2.Visible = True
End Sub
```

Logout Window



Coding for logout window:

```
Private Sub Command1_Click()
Form1.Adodc1.Refresh
```

```

Form1.Adodc2.Refresh
Form1.Adodc3.Refresh
Form1.Adodc4.Refresh
Form1.Adodc5.Refresh
Form1.Show
End Sub

Private Sub Command2_Click()
End
End Sub

```

Generated Receipt

Shri Shivaji Science College's <i>CAFETERIA</i> RECEIPT			
ITEMS	RATE	QUANTITY	PRICE
Kachori	20	3	60
Samosa	20	2	40
Idali	30	1	30
Coffee	10	6	60
Mineral Water	15	1	15
TOTAL			205
<i>Thanks!!! Visit Again...</i>			

Evaluation and Results

Characteristic of the Proposed System

1. **User friendly:** The proposed system is user friendly because the retrieval and storing of data is fast and data is maintained efficiently. Moreover the graphical user interface is provided in the proposed system, which provides user to deal with the system very easily.

2. **Easiness in modification of data:** The proposed system provides managing of huge data effectively and efficiently for efficient results, storing the details of the products available in the store.
3. **No or very few paperwork:** The proposed system either does not require paper work or very few paper works is required. All the data is feted into the computer immediately and numerous receipts can be generated through computers. Since all the data is kept in a database no data of the organization can be destroyed. Moreover work becomes very easy because there is no need to keep data on papers.
4. **Support strategic competitive advantage:** Proposed system supports strategic competitive advantages. Since the proposed systems provide easiness in reports generating it will provide strategic advantages among competitors.
5. **Computer operator control:** Computer operator control will be there no errors. Moreover storing and retrieving of information is easy. So work can be done speedily and in time.

Feasibility Analysis

Feasibility report for the computerization of the various activities of the company. The Company facing the problem of inconsistent and out of time information in its activities. Very much time is consuming for report generation, which is not very helpful for decision making. So we want a system, which provide immediate information.

Need of Feasibility Study

The feasibility study is carried out to test whether the proposed system is worth being implemented. Feasibility study is a test of system proposed regarding its work ability, its impact on the organization ability to meet user needs and effective use of resources. It is usually carried out by a small number of people who are familiar with the information system techniques, understand the part of the business or organization that will be involved or effected by the project and are skilled in the system analysis and design process.

The key considerations involve in the feasibility study are:

1. Technical
2. Behavioral
3. Economic

Technical Feasibility

Technical feasibility centers on the existing computer system (hardware, software etc) and to what extent it can support the proposed system addition. For example, if the current system is operating at 70% capacity (an arbitrary value), then another application could overload the system or require additional hardware. If the budget is serious constrain then the project is judged not feasible.

The technologies and the environment which are used in this project are

Software

- Front end: **Microsoft Visual Basic 6.0**
- Back end: **Microsoft Access 2007**
- Operating System: **Windows XP Professional**. Our system requires window operating system, which is easily available.

Hardware

Intel based processor-run computer system, which have keyboard and mouse as input devices. This has been decided for its case of availability and up-gradation.

The various registers maintained at the different department have enough information recording, which will help in digitizing the available data.

Behavioral Feasibility

The personal of the user organization will be affected by the proposed system. As the aim of the system is only to satisfy the information needs, no employees will lose their position by the proposed system. In fact the proposed system will help the organization in reducing the voluminous work involved. Also the involvement of users in every stage of the project is going to increase the success factor.

The staff in not well educated for running a computerized system. They are adamant in perceiving a mechanical process of working as they have long been used to the manual entry system. This aspect needs considerable amount of attention.

Economic Feasibility

The procedure is to determine the benefits and savings that are expected from a candidate system and compare it with the costs. If a benefit outweighs costs, then the decision is made to design and implement the system. Otherwise further alterations are made in the proposed system.

1. Manpower costs
2. Hardware and software cost

Conclusion

This was our project of **Canteen Billing System**. Development of this System takes a lot of efforts from us. We think this system gave a lot of 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.

References

- Microsoft Visual Basic VB.NET 6.0 (Reference Book by Microsoft)
- w3schools.com
- programmer2programmer.com
- wikihow.com