FINANCIAL ACCOUNTING SOFTWARE
VBA APPLICATION

VBA Case Study by:

Soumya Chauhan   - 5

Sahil Giri   - 7

Ausaaf Shaikh   - 25

Application Overview

- Industry – E-Commerce Retailer

- Objective – The objective of this project was to create a financial accounting application for E-Commerce Retailers including a streamlined process of data entry. Elimination of manual entry and minimizing human error.

Introduction

This project was made with the help of Vitthal TPS Kreationss LLP (VTPS) and the co-founder of the company Pallavi Chauhan. VTPS is a company which sells their products mainly on E-Commerce websites like Amazon, Flipkart, etc. alongside some offline business as well. When we approached them for our project, they explained to us the problems they were facing with daily operations. We suggested them to organize the data in Excel by just maintaining the data in a proper tabulated format and as far as the entry of new data is concerned, we helped them create a couple of Userforms for data entry embedded with automatic data entry in a tabular form with certain Data Validations which were requested by them. Addressing this issue made their daily operations have lesser chances of human error with increased automation in their Data.

The data which they were interacting with almost every other day were the files of Customer, Vendor, Employee, Sales, Purchase.

Customer, Vendor, Employee were the Master files having the data of the respective fields.

Sales and Purchase files had the data of the sales and purchases made on a daily basis. The staff was entering such important data manually with a high chance of error.

Solution

- Combining all the files into one file with different sheets for a much-streamlined process.
- Creating an Invoice template for the Sales Register.

- Creating Userforms for data entry in the Masters datasets.
- Providing them with buttons for easy navigation
- Formatting the data in a tabular form.
- Applying data validation in each field.
- Making a PDF of the Sales Invoice with a click of a button.
- Entering the data in the Sales Invoice template will automatically enter the data in the Sales dataset.

Application

The following is the overview of the final application.

Welcome Page – The welcome page contains the logo of the company and the buttons for navigation to the Userform and automation related to the Sales Invoice Template.

This is how the file greets you when you first open the Excel File.

Main Menu – The main menu sheet will consist of the buttons for the navigation.
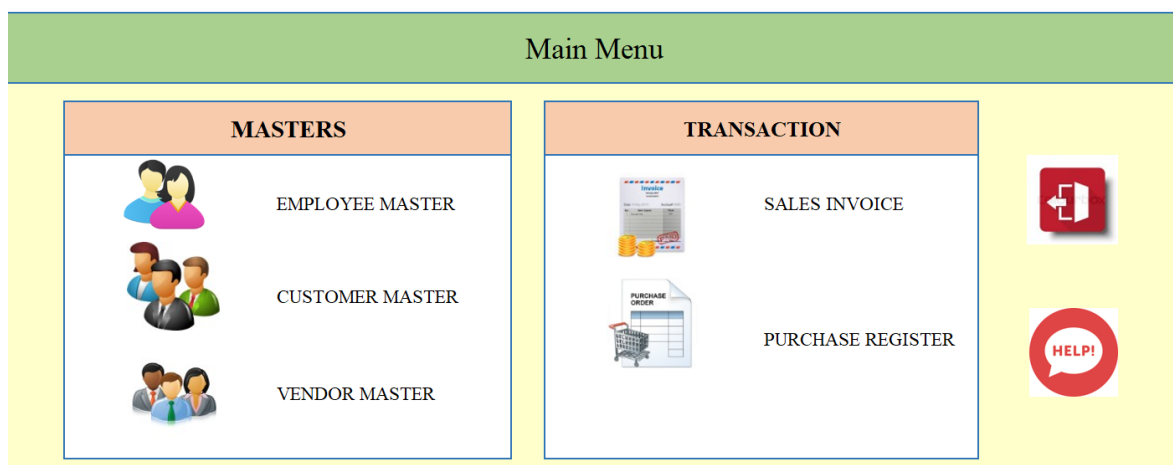
- The icons will take you to the respective forms / sheets in the Excel File
- The Exit button will close the workbook and save the changes.
- The Help button will open up this document for any help.
- Sales invoice button will take the user to the Invoice Template.

Masters –

- **Employee** – The following is the userform to enter the data of Employee in the Employee Master table.

In the above image, the staff can enter the details of the employees. The Employee ID will be automated according to the last Employee ID in the table and updated accordingly as well. Respective Data validation has been applied on all the fields.

- **Vendor** – The following image is the userform to enter the data of Vendors in the Vendor Master table.

Vendor Details

Vendor ID	VTPS_V001
Name	
Address	
State	
Contact Person Name	
Contact Person Mobile Number	
Email ID	
GST	

Cancel   Save

Vendor ID has been automated here as well. Data validation has been applied to all the fields.

- **Customer** – The following is the userform to enter the details of Customers in Customer Master table.

All the required information of the Customer which the company was providing to were mentioned in this Userform.

In all these userforms, data validation was very important along with the automation of IDs.

Once the 'Save' button is clicked, all the data filled into the form will be entered into the Masters dataset. All the previous data filled in the form will be cleared and the next ID will be shown.

Dropdowns for State, Department were provided.

Date of Joining cannot be before the year 2016 and all the dates cannot be after the current date.

Invoice –

The following is the explanation of the Sales Invoice template created in this project.

(As per the sections 31(1) of CGST Act 2017 & Rule 1 of Invoice Rules)						
TAX INVOICE						
435 IJMIMA complex, Mindspace, Off Link road, Behind Infinity Mall 2, Malad West, Mumbai, Maharashtra-400064, India.						
Invoice No		**Invoice Date**				
Challan no		**Challan Date**				
Buyer's PO		**PO Date**				
Contact Person		**Dispatched Through**				
0	0				0	
0		**Billing Address**			MAHARASHTRA	
					0	
Buyer's GST	0	**Delivery Address**			MAHARASHTRA	
Particulars	**HSN Code**	**IGST**	**GST**	**Quantity**	**Rate**	**Per**
SGST 2.5%	-	SGST 6%	-	SGST 9%	-	
CGST 2.5%	-	CGST 6%	-	CGST 9%	-	

This is the format of the Invoice template. The highlighted cells are the cells which are mandatory to be filled in by the User.

The invoice number has been automated in the format of "VTPS/current-year/001". With the number being incremented by 1 according to the last row of data.

In the Sales data sheet, extra columns are added for more specificity. User and time column are added which will take the username of the person filling the Invoice and the current time during which the Invoice was filled.

Reducing human error was made possible by reducing the amount of data being filled in manually, just selecting the Customer Name in the Sales Invoice will bring up all the other data such as their Email, GST Number, Address etc.

3 buttons have been added beside this invoice.

1. Update – This will update the entered data into the Sales Register table
2. Save as PDF – This button will convert the Invoice into a PDF file and save it in the format of "SalesInvoice_yyyymmdd_hh:mm"
3. Save Invoice – This will create another file consisting of the current invoice.

- Purchase – For the purchase register we've opted for a simple userform including the Invoice Number and Date, vendor name (who they're buying from), the product description, quantity, rate and finally GST %. Rest all calculation of

basic amount, total amount, SGST, CGST will be done on the Excel Spreadsheet accordingly. Below is the image of the Userform.

This is the format of the Purchase Form with Data validation applied and rules are as same as the other forms mentioned above.

Conclusion –

This project application has saved time of the Data Entry team in the company significantly and has minimized human error by a margin. Providing them with buttons for easier navigation, creating PDFs, etc. made their job much easier.

Data analysis can also be made simpler with already organized and prepared data.

Thank You.