

# FINANCIAL ACCOUNTING SOFTWARE

## VBA APPLICATION

*VBA Case Study by:*

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### 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.

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### 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.

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### 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

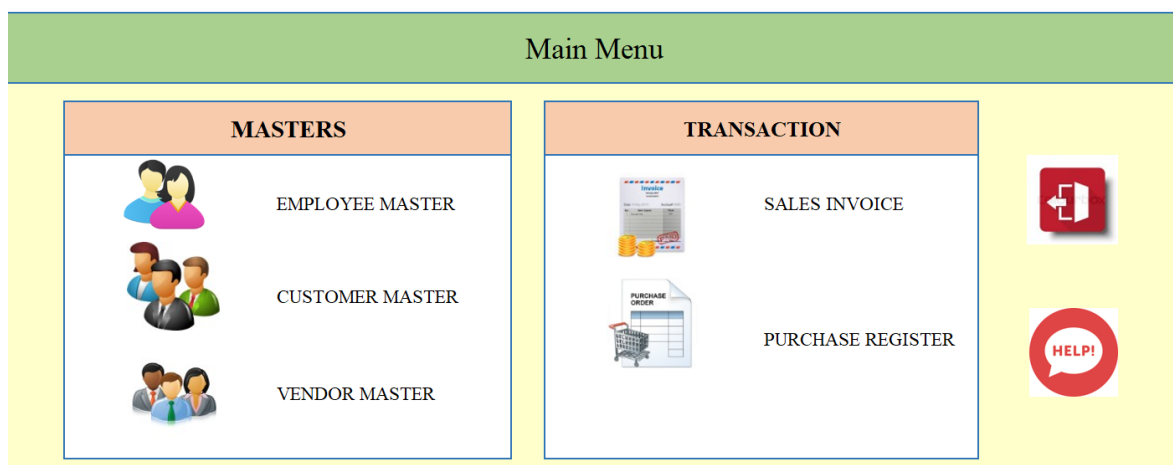
The following is the overview of the final application.

**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.

The image shows a userform titled "Employee Details". It contains the following fields and controls:

- Employee ID:** A text box containing "VTPS\_E001".
- Name:** A text box.
- Mobile Number:** A text box.
- Email ID:** A text box.
- Address:** A large text box.
- Date of Birth:** A date picker.
- Date of Joining:** A date picker.
- Gender:** Radio buttons for "Male" and "Female".
- Department:** A dropdown menu.
- State:** A dropdown menu.
- Buttons:** "Cancel" and "Save" buttons at the bottom.

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 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.

The screenshot shows a web-based form titled "Customer Details". The form is enclosed in a light gray border. At the top, there is a dark blue header bar with the text "Customer Details" and a close button (X). Below the header, the title "Customer Details" is displayed in a large, bold, black font. The form contains several input fields and a dropdown menu, each with a label to its left:

- Customer ID:** A text field containing the value "VTPS\_C001".
- Legal Name:** A text field with a cursor inside.
- Brand Name / Shop Name:** A text field.
- Source of Contact:** A dropdown menu.
- Contact Person Name:** A text field.
- Contact Person Mobile Number:** A text field.
- Email ID:** A text field.
- Address:** A text field.
- GST:** A text field.

At the bottom of the form, there are two buttons: "Cancel" and "Save".

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	Billing Address	0			
0			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.

The image shows a software window titled "Purchase Register" with a close button (X) in the top right corner. Inside the window, the title "Purchase Register" is displayed in a large, bold font at the top center. Below the title, there are several input fields arranged vertically: two "Invoice Number" fields, a "Vendor Name" dropdown menu, a "Product Description" text area, a "Quantity" field, a "Rate" field, and a "GST %" dropdown menu. At the bottom of the form, there are two buttons: "Cancel" on the left and "Save" on the right.

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

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## 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.

## Letter of Appreciation



To,  
**Soumya Chauhan**  
Sahil Giri  
Ausaaf Shaikh  
Date : 23MAR2024

### CERTIFICATE OF APPRECIATION

*We confirm that **Soumya Chauhan, Sahil Giri and Ausaaf Shaikh**, have worked with our company on automation of some of our functions. They were quick in learning the shortfalls and their suggestions were valuable. They have good knowledge of their subject and have interest in acquiring more. They are sincere, disciplined and respectfully mannered, which is well appreciated*

*We, the entire Team of **Vithal TPS Kreationss LLP**, Wish them success in all their future endeavours.*

*Thanks and Regards*

**Pallavi Chauhan**  
Director  
9833992775  
**Vithal TPS Kreationss LLP**  
Mumbai 400068



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Thank You.

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