

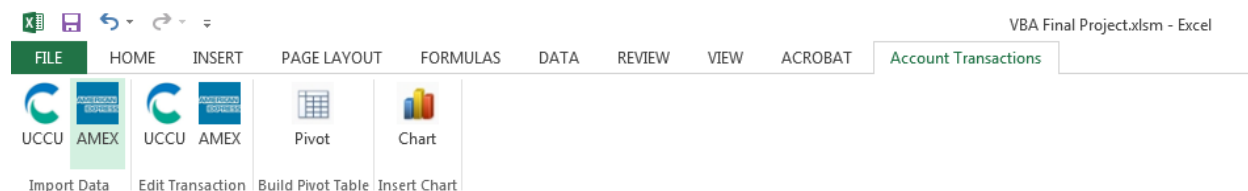
1. Executive Summary

For my project I have built a tool that helps me to quickly and easily analyze my personal financial data. This tool imports financial data from my bank account and credit card account into Excel into a designated format with the click of a button. With the data formatted and placed into an Excel spreadsheet I then have a user form that allows me to categorize, edit, and add transactions for both financial accounts. In addition to this there are buttons that will automatically build a pivot table for cross sectional analysis and a chart for visual analysis. This tool saves me a lot of time and is very convenient for monitoring my finances and making financial decisions.

2. Project Summary

Importing bank account and credit card account transactions

There are two buttons on the ribbon that when clicked will login to my bank account or credit card account and import transactions from Jan. 1 of the current year to the present date. Transactions are automatically labeled Expense, Income, Payment, or Refund. Also there are certain places I spend money at more frequently than others. These transactions are recognized and assigned an appropriate category. This all happens in one step when the user clicks one of the buttons on the ribbon as seen in the screen shot below.



VBA Final Project.xlsm - Excel

	A	B	C	D	E	F
1	Date	Description	Type	Amount	Balance	Category
2	4/1/2014	Checking withdrawal (Item #1141)	Withdrawal	\$265.00	\$5,054.66	Undeclared
3	4/1/2014	Checking withdrawal (Item #1140)	Withdrawal	\$65.00	\$5,319.66	Undeclared
4	3/24/2014	Checking withdrawal-ACH-A-DI WEBDISCOVER (E-PAYMENT)	Withdrawal	\$74.89	\$5,384.66	Credit Card
5	3/24/2014	Checking withdrawal-ACH-A-AMEEPA WEBAMEX EPayment (ACH PMT)	Withdrawal	\$418.07	\$5,459.55	Credit Card
6	3/10/2014	Checking withdrawal (Item #1139)	Withdrawal	\$90.00	\$5,877.62	Undeclared
7	3/10/2014	Checking withdrawal (Item #1138)	Withdrawal	\$265.00	\$5,967.62	Restaurants
8	2/26/2014	Checking withdrawal-ACH-A-BYU2 WEBBYU (eCheck)	Withdrawal	\$80.00	\$6,238.26	Undeclared
9	2/11/2014	Checking withdrawal-ACH-A-DI WEBDISCOVER (E-PAYMENT)	Withdrawal	\$86.08	\$6,318.26	Credit Card
10	2/10/2014	Checking withdrawal (Item #1137)	Withdrawal	\$265.00	\$6,404.34	Undeclared
11	2/10/2014	Checking withdrawal-ACH-A-AMEEPA WEBAMEX EPayment (ACH PMT)	Withdrawal	\$288.73	\$6,669.34	Credit Card

Editing, categorizing, and adding transactions

Transactions for each account are stored on separate spreadsheets. I built two user forms to work with each account. Both these user forms allow the user to modify or add any transactional data. Details of what the user forms provide can be seen in the screen shot below.

Transaction ID	Transaction Type	Amount	Balance	Category
Withdrawal	Withdrawal	\$205.00	\$5,967.62	Restaurants
106722164901	Withdrawal	\$4.26	\$6,232.62	Restaurants
ce #406727000854	Withdrawal	\$1.38	\$6,236.88	Undeclared

Edit UCCU Transaction

Transaction Date
Amount
Balance
Type

4/1/2014
\$65.00
\$5,319.66
☒ Expense

Transaction
Categories

Checking withdrawal (Item #1140)
Undeclared

Cancel
OK

Date	Amount	Type	Category
1/3/2014	\$7.90	<input checked="" type="radio"/> Expense	Groceries
Transaction		<input type="radio"/> Refund	Groceries
WAL-MART SUPERCENTEROREM		<input type="radio"/> Payment	Gas
			Car Maintenance
			Clothing
			Tithing/Fast O
			Undeclared
			Restaurants
			Recreation

Edit Amex Transactins

Date
Amount
Type
Category

1/3/2014
\$7.90
☒ Expense
Groceries

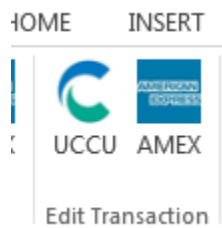
Transaction

WAL-MART SUPERCENTEROREM

☐ Refund
☐ Payment

Cancel

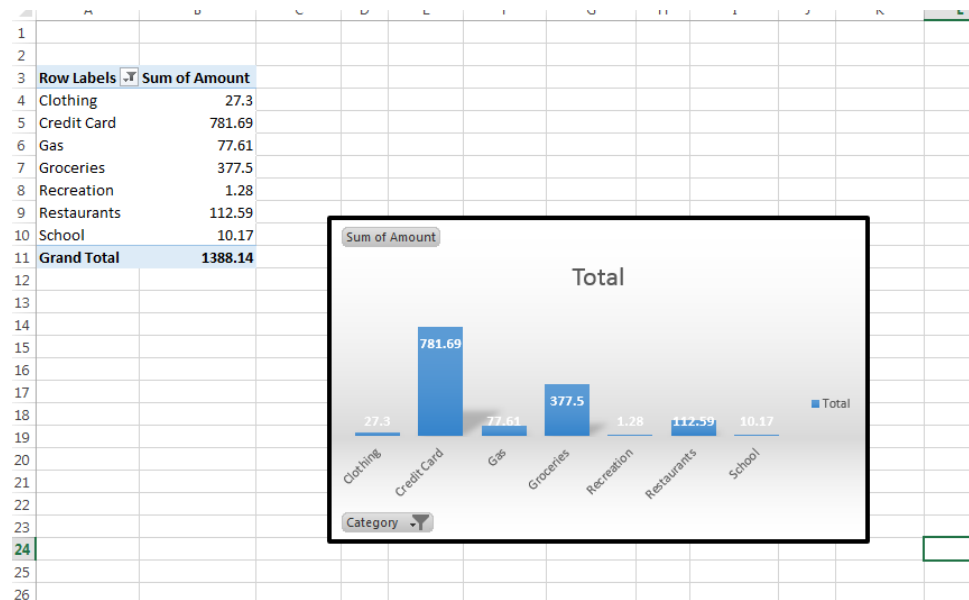
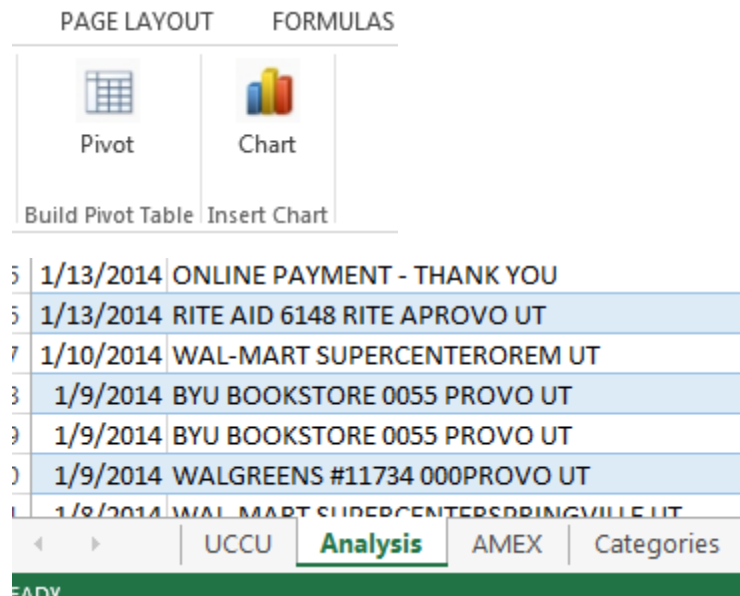
Both user forms can be accessed by two buttons on the ribbon as seen in the screen shot.



Both user forms have been designed to prevent the user from leaving fields blank or entering incorrect data.

Pivot table and chart

There is a spreadsheet in the workbook named Analysis. This spreadsheet contains all transactions for both accounts. There is a button on the ribbon labeled Pivot that will automatically build a pivot table based on this consolidated data.



3. Discussion of learning

The most difficult aspect for me in completing this project was getting data off of password protected websites. I am not very familiar with HTML and as a result, parsing through HTML code to access certain pieces of information was a daunting task. I spent a considerable amount of time familiarizing myself with the Internet Explorer object as well as the agent class module that Professor Allen provided. I felt that the time I spent learning how to interact with HTML using VBA was valuable.

Additional concepts I was able to solidify in completing this project were building pivot tables, charts, user forms, and modifying the Excel ribbon. I felt that learning these concepts in class was very helpful. Being able to apply these concepts within the scope of this project really helped me to learn VBA.

4. Help received

I received assistance from Professor Allen in accessing password protected websites and parsing through HTML code. I went to Professor Allen after I had tried everything and could not go any further. I was able to get help from him and then move on with the rest of my project. This is the only part of my project I received help on.