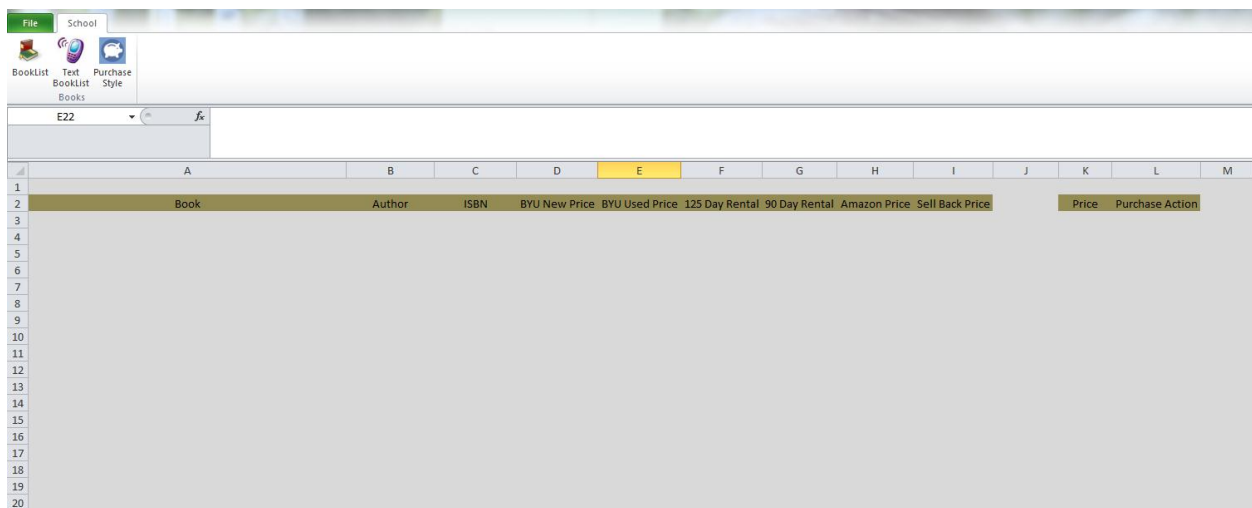


Kevin Bates
ISYS 540

This project consists of creating an interface for students at BYU to have a way to assist students in textbook purchases. It is designed to give all the information needed to allow you to compare the costs of books and make an accurate estimate of how much you will ultimately spend on books after sellback is included. This workbook goes to BYU obtains your book list and then goes to sites such as the bookstore rental store, Amazon, and Bookbyte (an online textbook buyer) to obtain estimates of how much everything will cost. It then gives the option for the student to decide the best course of action for each individual textbook.

What I did to accomplish my project was to first create a worksheet to hold the results of my online searches for the books and their prices. The opening page is somewhat bare in order to just allow for the imported information to populate the page. The below figure illustrates the opening scene of the workbook.



I have also inserted three buttons in the ribbon to facilitate the project. The first button is what will run the sub procedure that will go out and begin to obtain the information for my project. The other button is for after the information is gathered the user may decide to have the book information (Book title and author) texted to their phone in case they wish to purchase their books at the bookstore.

When the Booklist button is pressed the user is presented a user form that prompts the user to input their BYU netID and their password. The password's characters are changed so other looking will not know the password used. After this the user has the option of either pressing enter or clicking on the command button "Get Book Info". If the User fails to input one of the two fields or clicks the x in the corner the sub procedure will exit out. The following picture below is an example of the user form that is presented.

generated by the online searches. There is also a check box that will allow the user to toggle between having the book info texted or not. Though to actually text the info we will use another button. Below is a screenshot of the User form used.

Book Title		Author	
MACROECONOMICS 7E		MANKIW, N	
New Price	Used Price	125 Day Rental	90 Day Rental
\$166.70	\$125.05	\$62.13	\$54.32
Price After Sellback	<input type="checkbox"/> Text Book Info		
\$88.05	Select Purchase		
Done	125 Rent	Next Previous	

As the options are done are changed in the combobox and next or previous are clicked the values of the Purchase Action column are changed accordingly. When this happens the price is also updated in the Price column. As these prices are input the total price also in turn correct to give you the total amount that you are expected to play.

The final part of the project was I made it so that the user could text the books that had been selected from the book user form. What happens here is I bring up a user form much like what was given to us in class. The difference is I now included an option to put a phone number for a Verizon phone. This allows me to be able to text it to different people if needed. I have included the changed user form below.

Google Credentials	
GMail account:	<input type="text"/> @gmail.com
GMail password:	<input type="password"/>
Phone Number:	<input type="text"/>
Cancel	OK

After the information is input you will get the texts that include the book's title and the author's name. I assumed that these would be the things you would need because that is what you normally use when looking for the textbook in the bookstore.

For this project I didn't receive much if any help from other people. I did rely heavily on googling some potential ways to do certain tasks, but not many of those ended up being implemented in the project.

There were a few difficulties I encountered while working on this project. The first problem I found dealt with the BYU authentication. When I first tried to approach this, I found that it did not have a tag on the button for submitting and in a way was not a button I could refer to at all. To work around this I had the Internet Explorer window become visible for the task of submitting using a send key of [Enter]. The next thing I realized was that unless I typed something in also it would not allow me to authenticate. To work around this I simply had a sendkey [K] used before I filled in the Username and password. After doing this I was able to be able to sign-in to BYU. Upon talking to someone after finishing I found out that you had to submit a form in order to get it to work without it popping up.

The next difficulty I encountered was I originally intended on creating a combobox for every book in the column to the right of the price column. I found a few problems with this. First I realized I had the problem of trying to refer to each combobox dynamically to use its value for determining the price in the pricing column, because these are only created if a book exists on that row. I was then unable to dynamically enter in values depending on if rentals and sellback was available. If I created the combobox and then tried to fill it in the same macro it wouldn't work, but when I did it all through the immediate window it was fine. Lastly, I decided to give them all the same inner values but was unable to find a way to refer to these values I had given them. I ran out of time so I instead opted to just use the user form in order to just assign a word value to the Purchase action column to avoid these head aches and used my combobox easily in the userform.