GE2335 Written Report Mat Kong's Fans Club (852 based)

Book Shop Database System

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1. Introduction

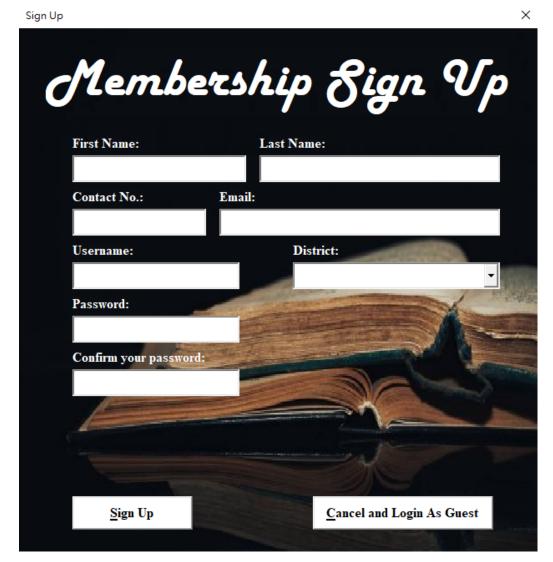
To study the real-life application of Business programming with Spreadsheet, our group developed a simple Excel VBA application for a pure online book shop. The application consists of a customer interface and staff interface. The book searching system displays available book information. With the ordering system, customers can further get book details and process orders. There are five systems for customers:

- 1. The sign-up system
- 2. The log-in system
- 3. The book searching system
- 4. The ordering system
- 5. Stuff can log in to the excel interface.

Our excel spreadsheet consists of 6 sheets: Books, Publishers, Staffs, Members, Orders, SalesTable. The first sheet records a database of books, consisting of book id, title, author, publisher id, date published, category, list price, cost, and stock quantity. The second sheet notes down publisher id and publisher name. As for the sheet named as Staffs, staff id, full name, phone, email, hire date, start salary, password, and username for logging into the system. Similarly, the Member sheet includes member id, full name, phone, email, district, active date, password, and username. Lastly, the Order sheet is a database of orders information. This sheet contains order id, book id, member id, staff id, order date, discount, and order quantity.

2. Sign Up for Member

2.1 <u>Sign Up Procedures</u>

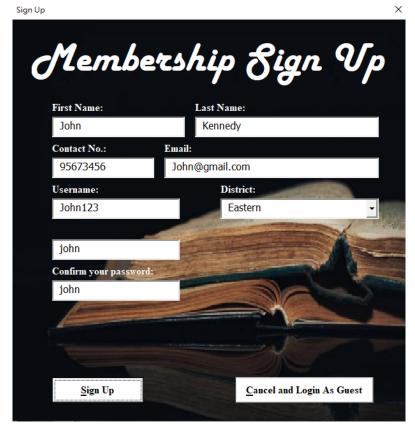


(image 1a screenshot of a blank membership sign up form)

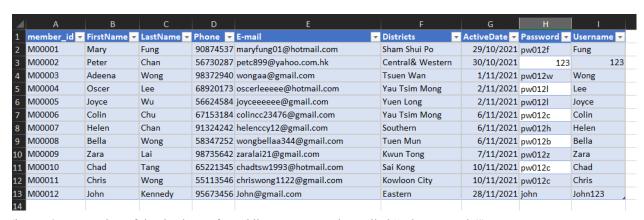
When new users want to use the online bookshop database system, they first have to register. Type in the first name, last name, contact number, email, username, password, and confirmed password in the spaces provided. Also, they need to choose the district he is living in by selecting an option from the combo box. After finishing the above steps, click "Sign Up". The system will automatically create a new row of the database from the new user in the sheet.

If the user wishes to log in as a Guest, they can skip the signup procedures and click the lowest right button, "Cancel and Login As Guest".

2.2 Work Example



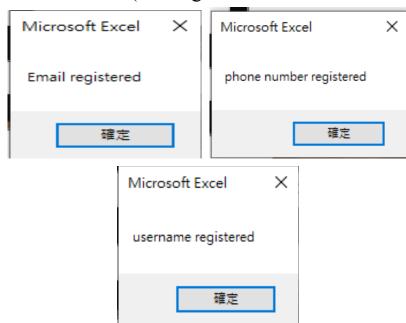
(image 2b screenshot of John Kennedy signing up for membership)



(image 2c screenshot of the database after adding a new member called "John Kennedy")

Using John Kennedy's identity, personal information is filled into the spaces provided according to the guidance above (result shown in image 1b). Click "Sign Up" for further procedures. A new row of data regarding the registration of John Kennedy is then created in row13 afterward (shown in image 1c).

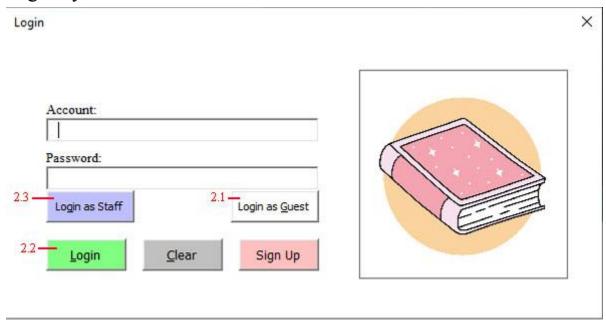
2.3 <u>Data Validation (Message boxes for Error Messages)</u>



(image 2d screenshot of the message boxes pop up regarding different situations)

The system will show the user inputs data (Email, phone number, username), same as one in the database, according to the message box. Users can click "OK" to return to the membership sign-up form.

3. Login System

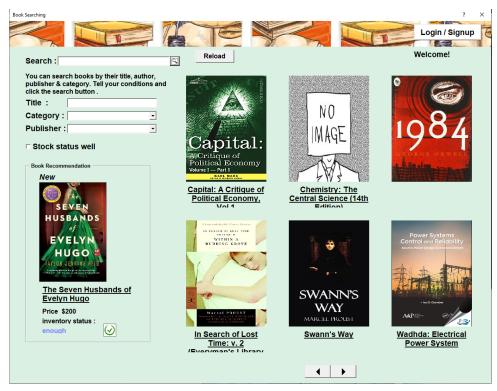


(image 3a. Screenshot of Login interface with notes)

The Login interface is simple with two input boxes for Account and Password; Three Login command buttons including Login as Guest, Login(As member) and Login as Staff are provided as shown; A function button to clear all input boxes is provided as well, and next to it is a button that links to the Sign Up form.

3.1. Login as Guest

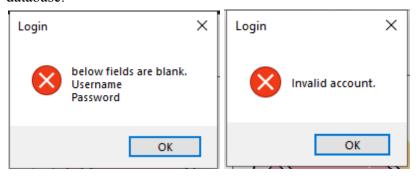
Guests can login by simply clicking the 'Login as Guest' button or use the key 'Alt+G'. It brings users to the Main interface. Users can look at the books and use the search book function. Users can click the 'Login/ Sign Up' button on the top right hand corner to get to the Login System interface (image 2a) again.



(image 3a. Screenshot of the Main interface)

3.2. <u>Login as Member</u>

Members can login with their existing accounts and passwords. (Data stored in 'Members' worksheet) Error message box will pop up if the 'Login' button was clicked while any input box is empty or the inputs were invalid/ not inside the database.





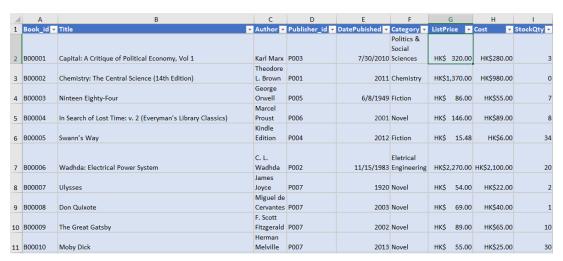
(image 3b. Screenshot of 'Members')

It brings members to the main interface. Members can use the search book function and purchase books with a member discount.

Demo Account: Fung Demo Password: pw012f

3.3. Login as Staff

Staff can log in with their accounts and passwords. (Data stored in 'Staffs' worksheet) Error message box will pop up if the 'Login' button was clicked while any input box is empty or the inputs were invalid/ not inside the database. It brings staff to the main interface and also shows worksheet 'Books' which stored information of Books including Stock Quantities and Listed Price; worksheet 'Publishers' which stored the information of Publishers and worksheet 'Order' which stored the information of orders.



(image 3c. Screenshot of 'Books')

	Α	В			
1	Publisher_id ▼	PublisherName	Ŧ		
2	P001	Pearson			
3	P002	New Academic Science Ltd			
4	P003	CreateSpace Independent Publishing Platform			
5	P004	Ming Pao Enterprise Corporation Ltd			
6	P005	Secker & Warburg			
7	P006	City University Of Hong Kong Press			
8	P007	South China Morning Post			
9	P008	Longman Hong Kong Education			
10	P009	Skywalker Press Limited			
11	P010	Blacksmith Books			
12	P011	Blackwood's Magazine			
13	P012	Chapman & Hall			
14	P013	Jonathan Cape and Harrison Smith			

(image 2d. Screenshot of 'Publishers')

1	Order_id ▼	Book_id ▼	Member_id ▼	Staff_id 🕶	OrderDate 🕶	discount 💌	OrderQty 🔻
2	O00001	B00001	M00001	S001	10/29/2021	0.00%	2
3	O00002	B00002	M00002	S002	10/30/2021	20.00%	5
4	O00003	B00003	M00003	S002	11/1/2021	0.00%	1
5	O00004	B00004	M00004	S001	11/2/2021	5.00%	2
6	O00005	B00010	M00002	S003	11/2/2021	0.00%	1
7	O00006	B00005	M00005	S001	11/2/2021	0.00%	1
8	O00007	B00021	M00006	S002	11/6/2021	10.00%	2
9	O00008	B00032	M00006	S002	11/6/2021	10.00%	1
10	O00009	B00011	M00006	S002	11/6/2021	5.00%	1

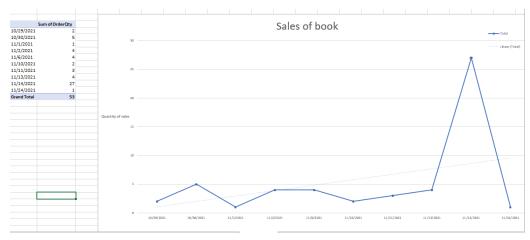
(image 3e. Screenshot of 'Orders')

Demo Account: Yeung

Demo Password: pw01234\$

3.4. Login as Manager

Managers can login with their accounts and passwords. They have access to certains worksheets similar to Staff, but managers also have access to 'Staffs' worksheet which stores staffs' accounts and passwords, 'Members' worksheet which stores members' accounts and passwords and 'SalesTable' worksheet which managers can analyze data.



(image 2f. Screenshot of 'SalesTable')

Demo Account: manager

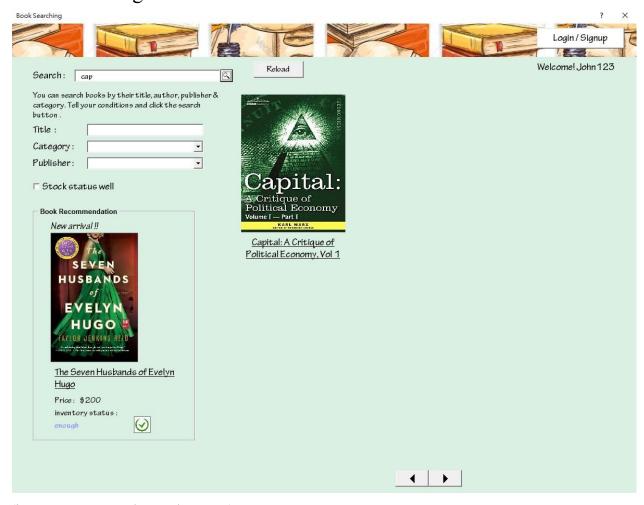
Demo Password: manager

The interface can show seven books' information on one page (one is the new arrival book with price and inventory information). It is possible to adjust the pages by clicking on the spin button located on the page below, the user can get information other than the first seven books. (pages limited in seven pages)

The user can reload the page to the default page by clicking on the reload button.

Although the user is already logged in, they can still log in again with another account by clicking on the "Login/Signup".

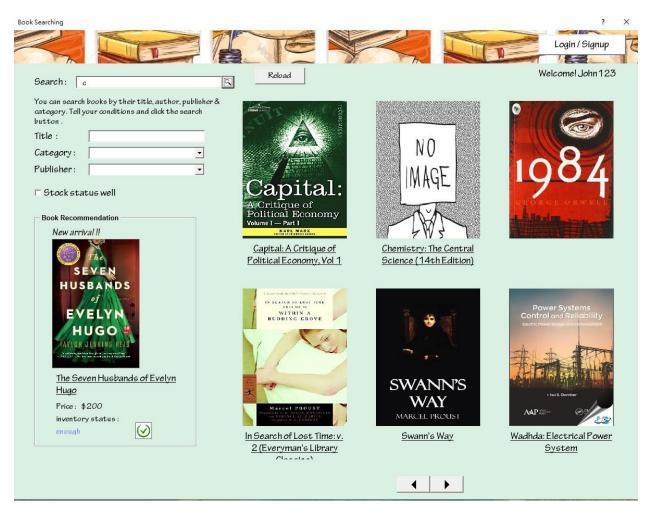
4.4. Searching & its feature / limitation



(image 4.6. General Search: "cap")

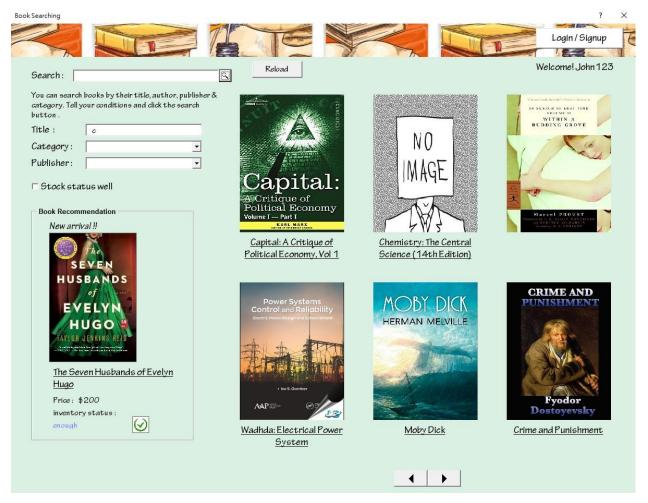
The user can do a general search (search book by title, author, publisher, or category) by typing in the text to the text box located in the top left-hand corner, then clicking the search pattern. Noting that the book searching engine only allows or search, so when the user search "cap" generally, the searching engine searches books with a title containing

"cap" or author name containing "cap" or publisher containing "cap" or category containing "cap".



(image 4.7. General Search: "c")

As image 4.7 shown, when the user search "c" generally, the fifth result "Swann's Way" contain no "c" in the book title, because its author, publisher, or category name may contain "c".



(image 4.8. Search by title: "c")

If need only the book information with only its title contains "c", search in the title text box. With the same principle, the user can search only by title, category, or publisher separately by typing the text conditions only in corresponding text boxes, then clicking the search pattern.