23 3740/3pring 2016 Database	e Management Systems P	roject Phase #2	Dr. Huang			
ame:	Score:	, Date:				
Project due date: in class presentation	n on 4/14/2018.					
<ul><li>This is an individual project with 2 pha</li></ul>	ses, and this is the 2nd ph	ase.				
Phase #2 will require you to develop to	the following functions (to	otal 100 points).				
<ol> <li> (5 pts) All phase #1 features and</li> </ol>	functions should be inclu-	ded in phase #2.				
2 ( <mark>5 pts</mark> ) Create one new table Pro	ducts_XXXX under the da	tabase <b>CPS3740_201</b>	.85 where XXXX is			
your Kean Email ID. Your table names m	ust follow the above form	at (case sensitive).				
Table Products_XXXX should have the	ne following fields in corre	ct data types.				
<ul><li>id: auto_increment integer, pri</li></ul>	mary key					
<ul><li>name: varchar(255), NOT NULL</li></ul>						
<ul><li>description: varchar(255), NOT</li></ul>	NULL					
<ul><li>sell_price: float, NOT NULL</li></ul>						
<ul><li>cost: float, NOT NULL</li></ul>						
<ul><li>quantity: int, NOT NULL</li></ul>						
<ul><li>user_id: int, NOT NULL, a foreig</li></ul>	gn key to the <mark>id</mark> field in <b>CP</b> :	S3740.Users table.				
<ul><li>vendor_id: int, NOT NULL, a for</li></ul>	eign key to the V_Id field	in CPS3740.Vendors	table.			
You should check the data fields for	tables <b>CPS3740.Users</b> and	CPS3740.Vendors .				
<ol><li>Add a search function on the project 2 h</li></ol>	ome page with a "Search	Products" button after	er the keyword			
textbox (shown in Figure 1) which will ca	ıll a new CGI program to d	o the following searc	h functions after			
users click on the "Search Products" but	ton, your program will use	the keywords to do	pattern match on			
both name and description columns in y	both name and description columns in your Product table.					
3.1 ( <b>5 pts</b> ) If the keyword is *, all p	roduct records should be	displayed. If the keyw	vord is empty, an			
error message "no keyword entered	" should be displayed and	the program should r	not access database			
3.2 (5 pts) If no record found, plea	• •		ywords:". If			
records found, please display all mat		•				
3.3 (5 pts) Search function should			· -			
be under current folder. The search			s=input_keywords			
Welcome to Austin Huang's CPS3740 project 2.	Your IP: 57.83.	156.42				
12 4 11	You are NOT fr	rom Kean Unversity				
<u>list all users</u>	Welcome user:	XYZ BBB				
Keyword: Search pro	Role: staff					
	Address: 33 Jan	nes St, NJ, 07331				
Login ID: panda	• Add prod					
Password: •••• Submit	Display n	products	1			

Figure 2. Update link only available to staff

Figure 1. New search product function

The following functions should be available only after a user successfully login. All these CGI programs should use the POST method, except Search should use GET method.

1.	(5 pts) Your login program should set cookie using the user ID as the cookie value. If the user
	doesn't successfully login, your program should not set the cookie. On the welcome page, you should have
	a logout link to clean/expire the cookie.
5.	(5 pts) If the user role is "Staff", display additional 3 links "Add products", "Display products",

\_\_\_\_\_ (5 pts) If the user role is "Staff", d "Update products" as shown in Figure 2.

6. \_\_\_\_\_ (5 pts) All the links (search, add, update, display) should call programs under current folder.

7.	(5 pts) All the 3 functions in it	em 6 should check if the cookie was set first. If the cookie is not set or
	login ID is empty, your programs shou	ld ask users to login first and exit without connecting to the database.
8.	(5 pts) If users click on "Display"	ay products" link, it will call a CGI program to display all the fields for
	all products from your Products_XXXX	<b>(</b> table in HTML <table> format.</table>
9.	(5 pts) If users click on "Add p	roducts" link, it will call a CGI program to add a new product into your
	Products_XXXX table.	
	Add products	10 (5 pts) The page should include product name,
	Product Name:	description, cost, sell_price and quantity in textboxes, select
	description:	vendor names in a dropdown list, and a submit button as
	Cost:	shown in figure 3.
	Sell Price:	11. (5 pts) Your program should retrieve all the vendor id
	Quantity:	and names first from table CPS3740.Vendors, and only
	Select vendor: XYZ Inc ▼ Submit	display the vendor names in the dropdown list for the user to
	Figure 3. Add products page	select.
12.	After user clicks the Submit button, yo	our program should verify the data and display corresponding error
	messages in the following situations,	
	12.1(5 pts) Cost or sell_price	is negative; or sell_price < cost; name or description is empty;
	quantity <=0	
	12.2 (5 pts) Same product nai	me exists in your Products_XXXX table
	12.3 (5 pts) If there is no error	, insert the data into your table. Please note that you need to retrieve
	user login id from the browser co	okie and insert the user id into the field user_id. If there is a data
	error, no data will be added into	your product table.
13.	( <mark>5 pts</mark> ) If users click on "Upda	ate Products" link, it should show all products on a web page as
	shown in Figure 4. You should display	meaningful message whether the update is successful or not.
14.	(5 pts) The fields highlighted in	n yellow (Product id, Product name, Vendor name, login ID who was
	the last person to add/update data fo	r the corresponding products) are Non-updateable fields.
	The fields (Product description, se	ell_price, cost, quantity) are Updateable fields.
15.	(5 pts) There is a button "Upo	date products" which will call a CGI program to update the fields
	(sell_price, cost, quantity, user_id) for	corresponding products in your product table.
16.	(5 pts) All the changed records	s are successfully updated on ONE click, and other not changed
	records should not be updated. The us	ser id should be automatically updated by using the current login
	cookie value.	
low	to submit your project:	

- Submit your project #2 through the class grade/submission system. <a href="http://imc.kean.edu/students">http://imc.kean.edu/students</a>
- Late penalty: 10 points per week after due date. Resubmit will have late penalty. Only one resubmission.
- Last resubmission date: 5/10. Instructor will not accept and grade projects after 11:59pmon 5/10.

You can only udpdate description, cost, sell price and quanity.										
Product ID	Product Name	Description	Cost	Sell Price	Quantity	Login ID	Vendor			
3	p1	product 60	200	3500	100	lion	ABC			
5	p3	product 33	50	750	16	lion	YYY			
6	p4	product 43	120	160	8	lion	CCC			
8	ipad	ipad air 2	400	600	5	lion	ABC			
9	car	Honda civi	10000	20000	5	lion	YYY			

Figure 4. Non-updateable fields are shown in yellow color, and Updateable fields white color.