Project overview

Introduction:-

the aim of this paper is to give an overview & design suggestions to the project , so you can implement your own ideas if it serves the same concept.

The goal is to develop a software solution to **manage** & **run** an oli & car services shop.

The shop shall contain an inventory of:

1. different oil products (زيوت فرامل -زيوت فتيس و دبرياج-زيوت موتور-.....),from different vendors(shell-total- mobile-….) ,with different ranges(3000 km-5000km-10000km- زيت ليترات) at different viscosity ratings, all of these attributes lies under the product name.
2. The shop also shall contain supporting service parts as(oil filters- benzene filters-air filters-….)

Both of those categories shall be specified with location

1. The opened products from the container shall be mounted on a specific physical place in a rack with a label , this place will also be entered in the inventory specs

ie :the shell 5000 with all of it's viscosities will be on 2nd rack at 3rd slot so R2S3 will be it's physical place

2.the unopened products which are still contained

The role of the system in order to manage these requirements

- is to build an inventory page that can only be accessed by the owner of the place **only**
- the page shall contain 2 function:
  A: an area to **creat a new product** or **add to existing** with the following specs in order to filter the search later
  1. product type{زيت-قطع غيار}
  2. if زيت then enter (product manufacture-milage-viscosity-expiry date-price-nuber of units to be added كام كرتونة مقفولة - no of units per cointaineعدد الجراكن لكل كارتونة-)
  3. after clicking add or create the system **creates** a new row with a time stamp of creation Or **adds** to existing row with time stamp of addition.
  4. The system then creates a random id no. of the added or created product with inherted id of each individual unit in order to track it later in the selling process
  5. if the product type is قطع غيار then enter (manufacturer –price-no. of units)
  6. after clicking add or create the system creates a new row with a time stamp of creation Or adds to existing row with time stamp of addition
  7. The system then creates a random no. of the added or created product in order to track it later in the selling process
  8. The system will creat a new column named shelve place (discussed in sellin process)

B: an area that contains 2 tables(oil-parts) that hold all the added or created products with the specified entries , example of shell 5000 30w/10 product that was added to existing row of the same specs

Entry no	manufacure	Milage	viscosity	كام كرتونة مقفولة	عدد الجراكن لكل كارتونة	Time stamp of addition or creation	Id of each container	Inherted id no of each جركن	Expiry date	Price	Shelve place
1	shell	5000	30w/10	2(1old +1 added	X	Old stamp	Old id	x.ida	Old exp	XXXX	
								x.idh			Enterd manually by admin or user when clickin on resupply
								x.idg			
								x.idn			
								x.idp			Ex)R1.S3.D2
					Y	New stamp	New id	y.idf	New exp		1st rack 2nd slot depth 2
											Only opened containers can be shelved
											When container is opned then assumed all shelved

The selling process:

the shop will have a sales person whose role is to:-

1. host the customers
2. know what product they want
3. the sales person enters the system with user privileges only (cant open the inventory page)
4. search for the product by(manufacture name /type/ milage) number through the system if he doesn't know its place
5. if the product that he searched was found shelved previously then the system shows the no. of matched searches & corresponding shelve places with inherted id no
6. if the client confirmed to buy one of the shown results then the seller will click on button to proceed to print recipt
7. he must enter at first the inherted id no in order for the system to confirm that this item was bought

8. the system takes the seller to a no of text boxes to write in it (client name – mobile no – car model – what did he buy shall be taken from previos id no s- current milage –next milage)these will be exported to DB
9. after wards the seller print receipts
10. the recipt is kept in db
11. if no match was found then it means that the sales man needs to resupply shelves from inventory so he must click on resupply button that requires him to enter the container id that he will open & this considers all the unites to be shelved & ready to be bought by the customer
12. go to step7 to 9

finally a daily report of all receipts