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| **LAB 221Assignment** | **Type:** | **Long Assignment** |
| **Code:** | **J3.L.P0002** |
| **Point:** | **400+** |
| **Slot(s):** | **NA** |

**Title:** Book Store

**Background**

Build a website to sell IT books like TIKI.VN

**Program Specifications**

In this assignment, you are requested to develop a simple app to sell IT books.

**Features:**

This system contains the following functions:

* Function 1: Login- 50 Points
  + In order to shopping, an authentication is required.
  + If the user has not authenticated, the system redirects to the login page.
  + The actor enters userID and password, the function checks if the userID with the password is in the available user list, then grant the access permission. If not, a message would appear no notify that user is not found.
  + Login function is required to shopping.
* Function 2: Search- 50 Points
  + List all books available in the system: status is active and quantity greater than 0.
  + Each book has a title, imageName, description, price, author, category, …
  + User can find the book based on name or range of money or category.
  + All users can use this function (login is not required)
* Function 3: Delete- 50 points
  + Only Admin role has permission to do this function.
  + Remove the selected book.
  + The confirm message will show before delete action.
  + Update list book after delete.
  + Remember that delete action is update the status of the book to Inactive.
* Function 4: Update- 50 points
  + Only Admin role has permission to do this function (login is required)
  + Update information of the selected book: tittle, price, author, category, import date, quantity,...
* Function 5: Insert- 50 points
  + Only Admin role has permission to create a newbook.
  + Create new book.
  + Date import is current date.
  + The default status of new book is active.
* Function 6: shopping- 170 points
  + All users can use this function except Admin role (login is required)
  + Add the selected book to shopping cart. The default quantity is 1.
  + Each user can buy any available book in the list (not limit the amount book want to buy)
  + User can view the selected book in the cart. For each book: book name, amount, price, total. The screen must show the total amount of money of this cart.
  + User can remove the book from the cart. The confirm message will show before delete action.
  + User can update amount of each book in cart.
  + Click the Confirm button to store the booking to database (must store the buy date time). The warning message will show if the select book is out of stock.
* Function 7: discount code- 60 points(extra)
  + When user shopping can enter the discount code.
  + Each discount code is mapped with one user and using one time.
* Function 8: Shopping history- 60 points(extra)
  + User can take over the shopping history.
  + Support search function: search by name or shopping date
* Function 9: Integrate online payment- 50 points (extra)
  + User can pay online
* Function 10: Create discount code- 60 points( extra)
  + Only admin can user this function.
  + Create discount code which has some basic information: ID, discount percent, date.

\* The above specifications are only basic information; you must build the application according to real requirements.

\* You have to build your own database.

\* The lecturer will explain the requirement only once on the first slot of the assignment.