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| **LAB 321Assignment** | **Type:** | **Long Assignment** |
| **Code:** | **J3.L.P0005** |
| **Point:** | **400+** |
| **Slot(s):** | **NA** |

**Title:** Car rental

**Background**

Build a website for Car rental.

**Program Specifications**

Car rental is a service online. In the store there are many types of cars, users can choose to rent one or many cars for a certain period of time. In addition, users can rent more than 1 car of the same type or different type. You must use STRUTS 2 framework.

**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.
  + Must integrated login using Google reCAPTCHA service.
  + Login function is required to shopping.
* ~~Function 2: Car Search- 50 Points~~
  + List all available car in the system: car name, color, year, category, price, quantity.
  + Each car has different price.
  + User can find the car based on car name or car category and rental date and return date and amount of car.
  + All users can use this function (login is not required)
* ~~Function 3: Create new account- 50 points~~
  + Register new user: email as ID, phone, name, address, create date.
  + Create date is current date.
  + The default status of new user is New.
  + You need verify the email address of the user before changing the status of new user to Active.
* Function 4: Renting- 150 points
  + All users can use this function except admin role (login is required)
  + Add the selected car to cart.
  + Each user can rent any available car in the list.
  + User can view the selected car in the cart. For each car: car name, car type, amount, price, total. The screen must show the total amount of money of this cart.
  + User can remove the car from the cart. The confirm message will show before delete action.
  + User can update amount of each car in cart.
  + Click the Confirm button to store the order to database (must store order date). The warning message will show if the selected car is out of stock.
  + During booking user enter the discount code (if any). Each discount code has its expiry date.
* Function 5: Order history- 100 points
  + User can take over the order history: list of order sort by booking date.
  + Support search function: search by name or order date
  + Support delete function to delete the order (update the status of order to inactive).
* Function 6: Feedback on the quality of car service- 50 points(Extra)
  + The user sends a feedback to the quality of the car he has rented.
  + Rating on a scale of: from 0 to 10.

\* 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.