PICKUP LAUNDRY
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Name of an Application: Pickup Laundry

Purpose: Web application called **PickUp Laundry** which allows customer to make an order for the services from the home.

The web application provides the following **functionalities** to the user:

- Users can register and log in to the system.
- Captcha implemented for valid authentication.
- Change Password functionality implemented.
- Dynamic loading of services based on selected clothes.
- Facility to generate invoice and download in PDF format.
- Auto-refresh functionality.
- Customers can apply filters on price and service for search functionality.
- Payment module integrated using Razorpay API.
- Consumption of Web Services.

Application User:

- Administrator
- Staff
- Customer

Develop a web application according to the given requirements.

- The Administrator is responsible for maintaining Cloths details, Service details, and Price details and can view the registered Customer details, assign pickup and Delivery of order as well as today's order and pending order. Administrator can register the staff also in the system.
- Visitors can only view the available services for cloths and its price. After registration visitors become customer and can enter into the system by required user's credentials. After successful authentication customer can give order for the service online and make online payment. Customer can also update his/her personal details.
- Staff can login to system. Staff can view the pickup and delivery order. And can update the status of order as "Pickedup" or "Delivered".

Relations:
- Role (roleId, roleName)
- User (<u>mobileNo</u>, userName, password, email, city, address, registrationDate, roleId, Status)
- Cloth (<u>clothCode</u>, clothName, description)
- Service (<u>serviceCode</u>, serviceName, description)
- RateMaster (<u>clothCode, serviceCode</u>, price, processingdays, imagePath) time in an hours
- OrderMaster (<u>orderNo, mobileNo</u>, orderAmount, orderDate, orderpickupDateTime, expectedDeliveryDate, isAmountPaid)
- OrderStaff (osid, mobileNo, orderNo,status)
- OrderDetail (<u>id</u>, orderNo, clothCode, serviceCode, quantity, amount)

Remark: The values of the given fields for above relation shall be as follows:
- clothName: Dress, Skirt, Blazer, Bedsheets, Curtains, Jacket
- serviceName: Dry clean, Washing, ironing status: pending (default), pickup, delivered
- Processing Days Calculation as per the following:

Cloth	Service	Processing Days
Dress	Dry Cleaning	2
Saree	Ironing	2
Shirt	Starching	3
Bed Sheet	Washing	2
Shirt	Dry Cleaning + Ironing	3
Dress	Dry Cleaning + Ironing	3

- Assume any customer ordered two dresses for dry cleaning and ironing, one saree for ironing, and one bed sheet for washing. So, the estimated delivery days will be maximum of any of service processing days. So here after 3 days delivery will be done.

QUESTIONS

1. Design Login and Home page for each user Administrator, Customer for the pickup laundry. Login page must have facility to Register the users and Captcha for valid authentication.

2. On click user registration, design and implement form for each user which have following types of validations:
   - No any filed should be left blank.
   - Specific data format validations.
   - Data comparison validation.
   - Numeric digit validation.
   - Custom validation.

3. After successful login, when administrator is authenticated then he/she can manage a service, cloths, and price into the system. All pages should be linked.

4. Created registration page must be utilized to store the data to database.

5. Create link on home page for each user.
   Administrator have links:
      Dashboard | Manage Service | Manage Customer | Manage Staff
   Customer have links:
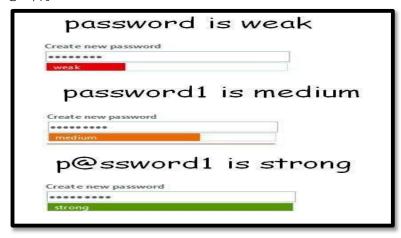   Home | Change Password | Order History

6. [Admin] Develop Manage Service page with add, update, delete and view cloth and services. All data must be sync in database.

7. [Admin] In Manage Customer, administrator can view list of all registered user in latest first order and administrator can update and delete particular user.

8. [Admin] In Manage Staff, admin can add, update, delete view the list of registered staff and provide them username and password for login.
   Note: Use of Prepared Statement is necessary for updating and deleting operation.

9. Develop a web page to authenticate the user based on the role assigned (customer or administrator), if the user is not authenticated then display an appropriate error message like invalid user credentials on the same page.

10. Provide Remember Me facility for the Login page.

11. Provide a Logout facility to the user.

12. [Customer] Provide change password functionalities for customer, where he needs to provide current password, new password and confirm password and show message as shown below:
    - Criteria for week password: length <=8 and only characters.
    - Criteria for medium password: length >=8 and 4 to 10 characters and 1 number.

- Criteria for strong password: length >=8, 4 to 10 characters, one number and minimum one special character from !@#$%.

13. [Customer] After successful authentication customers provide following functionalities to the customer:
    a. At upper right corner of web page, the time of login into the system will be displayed.
    b. Can view the services available with its images on home page.
    c. Customer can place order by selecting cloths and service for placing a request for pick up and order.
       - After selecting cloths from combo box, services combo box will dynamically load services available on selected cloth. And also ask for preferred pickup date and time.
       - The page will display cloths and services information with its price with processing time in tentative delivery date*, also asks quantity of cloths to process.
       - To implement above, create a stored procedure, it will take cloth Id as input parameter and display service provided on given cloth with its price, and processing time.
Note: Tentative delivery date will be displayed based on calculation of processing Days.

14. [Customer] At customer side, when customer placed order successfully, system will provide facility to generate invoice and send at given e-mail as well as download in PDF from system. Invoice having invoiceNo, cloths and service information with price, expected delivery date, and other mandatory information.

15. [Customer] Make appropriate changes in practical to give 5% discount on a bill to customer once in a month, if he/she made at least five orders in a month at that total amount was spent by him/her in a month is more than Rs.2000.

16. [Admin] Develop a web page for Administrator dashboard where administrator can view list of invoice number for today's order and pending order. Also display count of total pending order(s) and total online users. The page will atomically get refreshed at every 30 seconds.

17. [Admin] By clicking on particular order number displayed in order list, where administrator can view details of that particular order.

18. [Admin] Administrator can assign order pickup and delivery to any staff.

19. [Staff] Login to the system with provided username and password. View the list of order and update the status like "Picked up" or "Delivered". Once he picked and delivered the order of customer.

20. [Admin] System will manage customer order history. Administrator can view order history of all customer whereas customer can view his/her own order history of one year.

21. [Customer] Order history page contains: orderNo, Date, Amount and View button or link. By clicking on view order status page will be displayed.

22. [Customer] Develop a web page to provide filtering search functionality where the customer can apply a search on price and service. Based on selection, price and service list must be refreshed and displayed on content area.

23. There is a requirement of users to save space in some portion of web pages where images are placed. To do that user want those images to increase their size when user take their mouse on that image and the images retains its original size when the mouse is taken out of that image. Implement jQuery to achieve stated functionality.

24. Integrate payment module at customer side to make a payment. <Make Payment> button will be visible only during order processing time. Once payment is done then order status set as delivered. So, the <Make Payment> button will not display any more.
    Note: You must select a payment gateway APIs which are freely available and are allowing you create sample accounts for developer.

25. Create web services to display following data.
    - Administrator can view customer wise order, by providing customer's phone number.
    - List top five services which are mostly ordered by customer.
    - List top five services which will generate highest revenue.

26. Created web services must be consume in admin application under report section.