

Internet Application Development

Lab 01

Dated: Friday, 06th February 2026

Registration No: 021-2023, 012-2023

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Q1) Consider the Pine Valley Furniture Company database designed and implemented during the previous semester. Try to recall major relations in the database (CUSTOMER_T, ORDER_T, ORDER_LINE_T, and PRODUCT_T).

There is a need to implement a web based solution for above mentioned database. The web based solution must incorporate following functionalities:

- i) New Customer Registration
- ii) Searching of Products
- iii) Products Selection and Order Placement
- iv) Product Catalog Update
- v) Payment Provision

As a first step design above mentioned (i) to (v) user interfaces using paper and pencil.

Next write appropriate html for creating (i) to (v) user interface prototypes.

Create links for navigation among above pages.

Design a menu using list and styles.

Add help pages for user guidance.

Either use table for layout or may opt for flow based layout.

Test user interface prototypes in browser.

Experiment with style sheets.

Q2) Try to incorporate business intelligence in your project. You may consider following options

- i) Try to transform order processing system into a customer segmentation analysis platform.
- ii) How user profiling can be added into basic order processing system?
- iii) How targeted marketing can be realized?
- iv) Add recommendation system feature in your project.

i) New Customer Registration:-

PVFC Registration

Username:

Email:

Contact no.:

Address:

City:

State:

Postal Code:

Password

Note: password must contain an upper case, a lower case and a special character and 8 characters long

Re-enter Password:

Register

<h2></h2> PVFC Registration</h2>

<form>

Username:

<input type="text" />
^{required}

Email:

<input type="email" />
^{required}

Contact no.:

<input type="text" />
^{required}

Address :

~~<input type=~~

<textarea></textarea>

City:

<input type="text" />
^{required}

State:

<input type="text" />
^{required}

Postal Code:

<input type="text" />
^{required}

Password:

<input type="password" />
^{required}

<p> Note: Password must be 8 characters long with at least one upper case letter and a special character </p>

Re-enter password:
^{required}

<input type="password" />

<input type="submit" value="Register">

2) Searching Products:-

Find Your Product here!

filters No filter applied

3) Product Selection and Order Placement:-

Select Products



Rs. 2000

image

Rs. 3000.

- | + - | +

Order Summary

ProductName	Quantity	Unit Price	Total
Sofa	2	2000	4000

Total Amount = Rs. 4000/-

User Name : _____

Address : _____

Contact Info : _____

Order no. : _____

Payment : COD

PAY NOW

<h3> Find Your Product Here! </h3>

<form>

<input type="text" placeholder="Enter your product name">

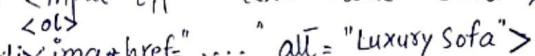
<button> Filters </button> <p> No filter applied </p>

<input type="submit" value="Search" >

</form>

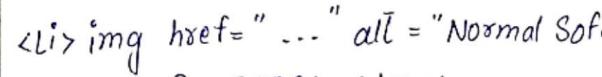
<h2> Select Products! </h2>

<input type="text" value="Sofa" >

  href="..." alt="Luxury Sofa" >

<pre> Rs. 2000/- </pre>

<button> Add to Cart </button>

  href="..." alt="Normal Sofa" >

<pre> Rs. 3000/- </pre>

<button> Add to Cart </button>

 <button> View Cart </button>

<!-- When customer pressed view cart then it refers to following page -->

<h2> Order Summary </h2>

<table>

<tr> <th> Product Name </th>

<th> Quantity </th>

<th> Unit Price </th>

<th> Total </th>

</tr>

<tr>

<td> Sofa </td>

<td> 2 </td>

<td> 2000 </td>

<td> 4000 </td>

</tr>

</table>

<pre>

Total Amount = Rs. 4000/-

User name = xyz

Address = abc

Contact Info = 123

3

Order no: #012

```
</pre>
<input type="radio" value="COD">
<input type="radio" value="PAY NOW">
<button> Place Order </button>
```

4) Update Catalogue:-

Update Catalog

Add Product

Remove Product

Add Product:

Product Id:

Product Name:

Product Description:

Product Price:

Stock Available:

Add Product

Remove Product:

ProductId:

ProductName:

Remove Product

```
<h2> Update Catalog </h2>
```

```
<button> Add a Product </button>
```

```
<button> Remove a Product </button>
```

```
<!-- if user clicks on Add a Product -->
```

```
<h3> Add a Product </h3>
```

```
<form>
```

ProductId:

<input type="number" required>

ProductName:

<input type="text" required>

Product Description:

<input type="text">

<textarea> </textarea>

Product Price:

<input type="number" required>

Stock Available:

<input type="number" required>


```
</form>
```

~~<button>~~

<input type="submit" value="Add Product">

```
<!-- if user clicks Remove a Product -->
```

```
<h3> Remove Product </h3>
```

```
<form>
```

ProductId:

<input type="number" required>

ProductName:

<input type="text" required>


```
</form>
```

<input type="submit" value="Remove Product">

⑤ Payment Provision:

Complete Pending Payments

Payment Mode:

① COD

② Card

visa | debit | credit | easypaisa.

Card Payment:

Card no.:

Enter pin:

Submit

<h2> Complete Pending Payments </h2>

Payment Mode:

<form>

<input type="radio" value="COD">

<input type="radio" value="Card">

</form>

<table>

<tr>

<th> visa </th>

<th> debit </th>

<th> credit </th>

<th> easypaisa </th>

<!-- if user clicks card -->

<h2> Card Payment </h2>

</form>

Card no.:

<input type="number" required>

Enter pin:

<input type="number" required>

</form>

<button> ~~value="Submit"~~ Submit </button>

LANDING PAGE

=

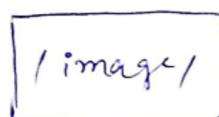
Login | Register

Pine Valley Furniture Company

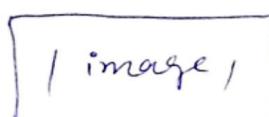
Shop Now!

Enter required product name

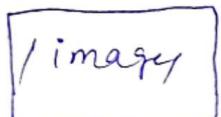
Featured Products:-



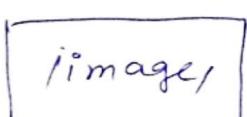
Luxury
Sofa



Study Table



Dinner
Table



Chair Table
Set for Students

MENU

Menu :-

-
-
-
-
-

Customer Analysis

for General :-

General Customers

Frequent Customers

Royal Customers

Premium Customers

Bulk Customers

for Specific :-

Enter CustomerID:

Activity Chart:-



No. of Orders Placed :-

Total Amount :-

Visits / month :-

Visits / year :-

Product types :

⑥ Expensive / Cheaper / Economic .