

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.

1) 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">

Email:

<input type="email">

Contact no.:

<input type="text">

Address:

<input type="text">

</input>

City:

<input type="text">

State:

<input type="text">

Postal Code:

<input type="text">

Password:

<input type="password">

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

Re-enter password:

<input type="password">

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

</form>

2) Searching Products:-

Find Your Product here!

Enter product name

filters No-filter applied

Search

<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>

3) Product Selection and Order Placement:-

Select Products

Sofa

image image

Rs. 2000

Rs. 3000

- 1 + Add to Cart - 1 + Add to Cart

Order Summary

Product Name	Quantity	Unit Price	Total
Sofa	2	2000	4000

Total Amount = Rs. 4000/-

Uses Name : _____

Address : _____

Contact info : _____

Order no. : _____

Payment : ☐ COD

☐ PAY NOW

Place Order!

<h2>Select Products!</h2>

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

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

<button>Add to Cart</button>

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

<button>Add to Cart</button>

 <button>View Cart</button>

o! -- When customer presses 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/-

Uses name = xyz

Address = abc

Contact Info = 123

Order no: #012

</pre>

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

<input type="radio" value="PAY NOW">

<button> Place Order </button>

4) Update Catalog:-

Update Catalog

Add Product

Remove Product

Add Product:

Product Id:

Product Name:

Product Description:

Product Price:

Stock Available:

Add Product

Remove Product:

Product Id:

Product Name:

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>

Product Id:

<input type="number" required>

Product Name:

<input type="text" required>

Product Description:

<input type="text" required>

<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>

Product Id:

<input type="number" required>

Product Name:

<input type="text" required>

</form>

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

⑤ Payment Provision:

Complete Pending Payments

Payment Mode:

☐ COD

☐ Card

visa	debit	credit	easypaisa
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Card Payment:

Card no.:

Enter pin:

Submit

```
<h2>Complete Pending Payments</h2>
```

```
Payment Mode: <br>
```

```
<form>
<input type="radio" value="COD"><br>
```

```
<input type="radio" value="Card"><br>
</form>
```

```
<table>
```

```
<tr>
<th>visa</th>
```

```
<th>debit</th>
```

```
<th>credit</th>
```

```
<th>easypaisa</th>
</tr>
```

!- if user clicks card->

```
<h2>Card Payment</h2>
```

```
<form>
```

Card no.:

```
<input type="text" required><br>
```

Enter pin:

```
<input type="text" required><br>
```

```
</form>
```

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

LANDING PAGE

≡

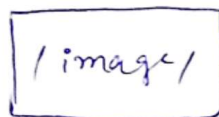
Login Register

Pine Valley Furniture Company

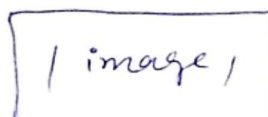
Shop Now!

Enter required product Name

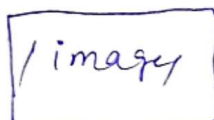
Featured Products:-



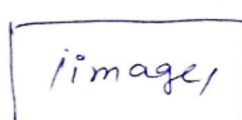
Luxury sofa



Study Table



Dinner Table



Chair Table Set for Students

MENU

Menu :-

Sign Out

New Products
View All Products
Search Products
Products on Sale
Help

Customer Analysis

General

Specific

for General :-

General Customers

Frequent Customers

Royal Customers

Premium Customers

Bulk Customers

for Specific :-

Enter CustomerID:

Search

Activity Chart :-



No. of Orders Placed :-

Total Amount :-

Visits / month :-

Visits / year :-

Product types :

① Expensive / Cheaper / Economic .