

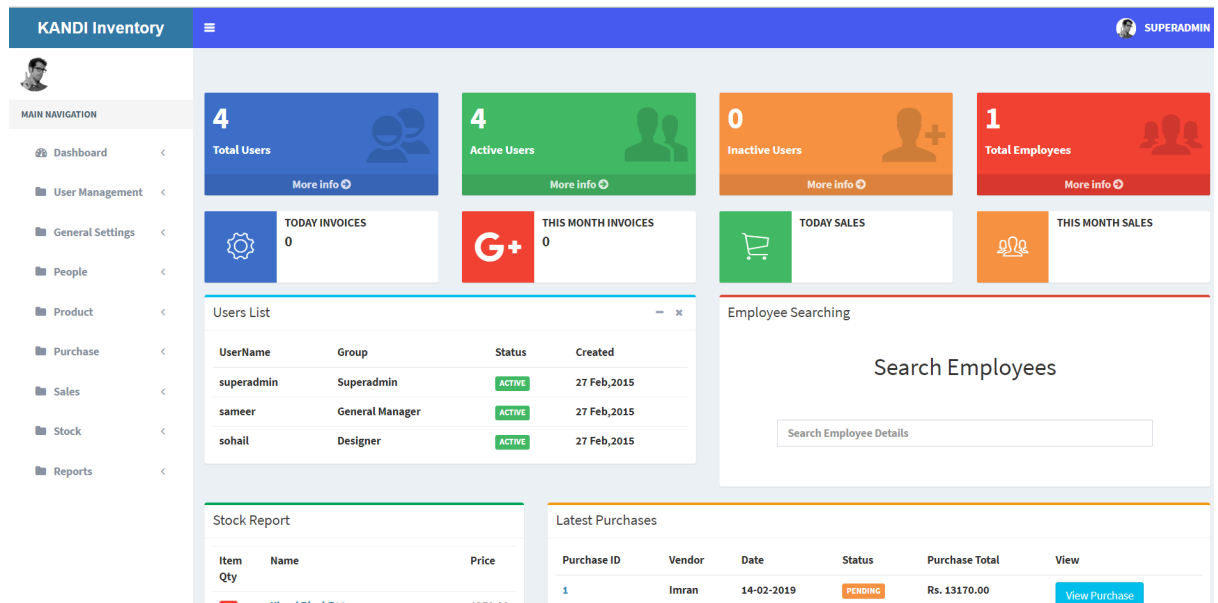
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Catatan Pertemuan 5

Membuat Database Inventory di Laptop masing-masing

Langkah-langkah:

1. Perintahkan ChatGPT : buat aplikasi inventory management system dengan menggunakan kode html, css, js, php, sql. Gunakan kode front-end memakai index.html, style.css, script.js. (Lengkapi dengan penjelasan struktur kode yang sesuai dengan struktur folder, serta tutorial penggunaannya). Tambahkan juga dengan contoh inventory yang dari google



Hasilnya sebagai berikut:

Struktur Folder

pgsql

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inventory-system/

```
|— index.html      (Halaman utama/front-end)
|— style.css       (File CSS untuk tampilan)
|— script.js       (File JavaScript untuk interaksi)
|— config.php      (Konfigurasi database)
|— db.sql          (Struktur database)
|— add_product.php (Tambah produk)
|— delete_product.php (Hapus produk)
|— update_product.php (Update produk)
|— list_products.php (Tampilkan produk)
|— assets/         (Folder untuk gambar, ikon, dll.)
|— api/           (Folder untuk API PHP)
```

1 Front-End (HTML, CSS, JS)

index.html (Tampilan utama)

html

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```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width,
initial-scale=1.0">
  <title>Inventory Management</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>

  <h1>Inventory Management System</h1>
  <div class="container">
    <form id="addProductForm">
      <input type="text" id="productName" placeholder="Product
Name" required>
      <input type="number" id="productQty"
placeholder="Quantity" required>
      <input type="number" id="productPrice"
placeholder="Price" required>
      <button type="submit">Add Product</button>
    </form>

    <h2>Product List</h2>
    <table id="productTable">
      <tr>
        <th>ID</th>
        <th>Name</th>
        <th>Quantity</th>
        <th>Price</th>
        <th>Action</th>
      </tr>
    </table>
  </div>

  <script src="script.js"></script>
```

```
</body>
</html>
```

style.css (Tampilan UI)

css

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```
body {
    font-family: Arial, sans-serif;
    text-align: center;
    background-color: #f4f4f4;
}

.container {
    width: 60%;
    margin: auto;
    background: white;
    padding: 20px;
    box-shadow: 0px 0px 10px gray;
}

input {
    padding: 10px;
    margin: 5px;
    width: 80%;
}

button {
    padding: 10px;
    background: blue;
    color: white;
    border: none;
    cursor: pointer;
}

table {
    width: 100%;
    border-collapse: collapse;
    margin-top: 20px;
}
```

```

th, td {
    border: 1px solid black;
    padding: 10px;
}

th {
    background: lightgray;
}

```

script.js (Interaksi)

js

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```

document.getElementById("addProductForm").addEventListener("submit",
function(e) {
    e.preventDefault();

    let name = document.getElementById("productName").value;
    let qty = document.getElementById("productQty").value;
    let price = document.getElementById("productPrice").value;

    fetch('add_product.php', {
        method: 'POST',
        headers: { 'Content-Type':
'application/x-www-form-urlencoded' },
        body: `name=${name}&qty=${qty}&price=${price}`
    }).then(response => response.json())
    .then(data => {
        alert(data.message);
        loadProducts();
    });
});

function loadProducts() {
    fetch('list_products.php')
    .then(response => response.json())
    .then(data => {
        let table = document.getElementById("productTable");
        table.innerHTML =
`<tr><th>ID</th><th>Name</th><th>Quantity</th><th>Price</th><th>Acti
on</th></tr>`;
    });
}

```

```

        data.forEach(product => {
            let row = `<tr>
                <td>${product.id}</td>
                <td>${product.name}</td>
                <td>${product.qty}</td>
                <td>${product.price}</td>
                <td><button
onclick="deleteProduct(${product.id})">Delete</button></td>
            </tr>`;
            table.innerHTML += row;
        });
    });
}

function deleteProduct(id) {
    fetch(`delete_product.php?id=${id}`)
        .then(response => response.json())
        .then(data => {
            alert(data.message);
            loadProducts();
        });
}

window.onload = loadProducts;

```

2 Back-End (PHP & MySQL)

config.php (Koneksi Database)

```

php
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<?php
$host = "localhost";
$user = "root";
$password = "";
$database = "inventory_db";

$conn = new mysqli($host, $user, $password, $database);

```

```
if ($conn->connect_error) {  
    die("Connection failed: " . $conn->connect_error);  
}  
?>
```

db.sql (Struktur Database)

sql

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```
CREATE DATABASE inventory_db;  
  
USE inventory_db;  
  
CREATE TABLE products (  
    id INT AUTO_INCREMENT PRIMARY KEY,  
    name VARCHAR(100) NOT NULL,  
    qty INT NOT NULL,  
    price DECIMAL(10,2) NOT NULL  
);
```

add_product.php (Tambah Produk)

php

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```
<?php  
include 'config.php';  
  
if ($_SERVER["REQUEST_METHOD"] == "POST") {  
    $name = $_POST["name"];  
    $qty = $_POST["qty"];  
    $price = $_POST["price"];  
  
    $stmt = $conn->prepare("INSERT INTO products (name, qty, price)  
VALUES (?, ?, ?)");  
    $stmt->bind_param("sii", $name, $qty, $price);  
  
    if ($stmt->execute()) {  
        echo json_encode(["message" => "Product added  
successfully"]);  
    } else {
```

```
        echo json_encode(["message" => "Failed to add product"]);
    }
}
?>
```

list_products.php (Tampilkan Produk)

php

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```
<?php
include 'config.php';

$result = $conn->query("SELECT * FROM products");
$products = [];

while ($row = $result->fetch_assoc()) {
    $products[] = $row;
}

echo json_encode($products);
?>
```

delete_product.php (Hapus Produk)

php

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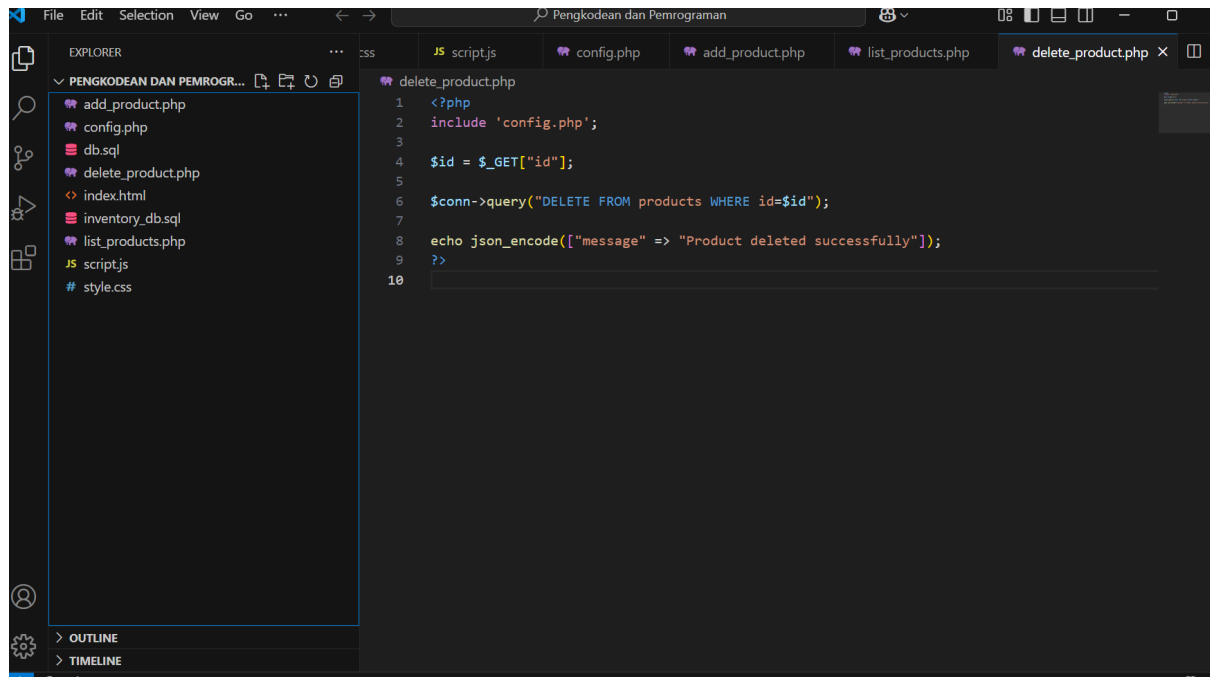
```
<?php
include 'config.php';

$id = $_GET["id"];

$conn->query("DELETE FROM products WHERE id=$id");

echo json_encode(["message" => "Product deleted successfully"]);
?>
```


3. Salin ke VSCode



The screenshot shows a code editor with a dark theme. The Explorer panel on the left lists files under the folder 'PENGKODEAN DAN PEMROGRAMAN...'. The main editor area displays the code for 'delete_product.php'.

```
1 <?php
2 include 'config.php';
3
4 $id = $_GET["id"];
5
6 $conn->query("DELETE FROM products WHERE id=$id");
7
8 echo json_encode(["message" => "Product deleted successfully"]);
9 ?>
10
```

4. Lalu Save ke Folder. Saya membuat nama foldernya dengan nama “koding-dwi”

Last month				
	delete_product	20/03/2025 10:47	PHP Source File	1 KB
	list_products	20/03/2025 10:46	PHP Source File	1 KB
	add_product	20/03/2025 10:46	PHP Source File	1 KB
	db	20/03/2025 10:45	SQL File	1 KB
	config	20/03/2025 10:44	PHP Source File	1 KB
	script.js	20/03/2025 10:43	JSFile	2 KB
	style	20/03/2025 10:43	CSS Source File	1 KB
	index	20/03/2025 10:42	Chrome HTML Docu...	2 KB
	inventory_db	20/03/2025 10:34	SQL File	6 KB

5. Cari localhost/koding-dwi di halaman google. Dan akan muncul tampilan sebagai berikut

Inventory Management System

Form input fields:

- Product Name: Komputer
- Quantity: 6
- Price: 2000000
- Add Product button

Product List

ID	Name	Quantity	Price	Action
1	Laptop ASUS	undefined	7500000.00	Delete
2	Printer Epson	undefined	2500000.00	Delete
3	Meja Kerja	undefined	500000.00	Delete

Nah , apabila ingin menambahkan bisa menambahkan dari sini, lalu lihat di PhpMyAdmin apakah product list ikut bertambah.