

Sisca Linda Anari\_Pertemuan 4\_Progress Inventory Management

Pemrograman dan Pengkodean Kelas: F

GPT

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)



Berikut adalah struktur dan kode untuk membuat aplikasi **Inventory Management System** menggunakan **HTML, CSS, JavaScript, PHP, dan SQL**.

Struktur folder

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1. Struktur Folder

Berikut adalah struktur direktori proyek:

```
pgsql

inventory-management/
├── assets/
│   ├── css/
│   │   └── style.css
│   ├── js/
│   │   └── script.js
│   └── database/
│       ├── db.sql
│       └── includes/
│           ├── db_connect.php
│           └── pages/
│               ├── dashboard.php
│               ├── add_product.php
│               ├── edit_product.php
│               ├── index.html
│               ├── login.php
│               ├── logout.php
│               └── inventory.php
```

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2. Kode Front-End

a) index.html (Halaman Login)

```
html

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Login - Inventory System</title>
  <link rel="stylesheet" href="assets/css/style.css">
</head>
<body>
  <div class="login-container">
    <h2>Login</h2>
    <form action="login.php" method="POST">
      <input type="text" name="username" placeholder="Username" required>
      <input type="password" name="password" placeholder="Password" required>
      <button type="submit">Login</button>
    </form>
  </div>
</body>
</html>
```

**d) assets/css/style.css (Style Iampilan)**

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

.login-container {
  width: 300px;
  padding: 20px;
  background: white;
  margin: 100px auto;
  box-shadow: 0 0 10px rgba(0,0,0,0.1);
  border-radius: 5px;
}

input {
  width: 90%;
  padding: 10px;
  margin: 10px 0;
}

button {
  width: 100%;
  padding: 10px;
  background-color: blue;
  color: white;
  border: none;
  cursor: pointer;
}
```

**c) assets/js/script.js (Script JavaScript)**

```
js
document.addEventListener("DOMContentLoaded", function() {
  console.log("Inventory System Loaded");
});
```

### 3. Back-End (PHP & SQL)

**a) database/db.sql (Membuat Database)**

```
sql
CREATE DATABASE inventory_db;
USE inventory_db;

CREATE TABLE users (
  id INT AUTO_INCREMENT PRIMARY KEY,
  username VARCHAR(50) NOT NULL,
  password VARCHAR(255) NOT NULL
);

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

b) includes/db\_connect.php (Koneksi Database)

```
php Salin Edit

<?php
$host = "localhost";
$user = "root";
$pass = "";
$dbname = "inventory_db";

$conn = new mysqli($host, $user, $pass, $dbname);

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

c) login.php (Proses Login)

```
php Salin Edit

<?php
session_start();
include 'includes/db_connect.php';

if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $username = $_POST['username'];
    $password = $_POST['password'];

    $sql = "SELECT * FROM users WHERE username='$username'";
    $result = $conn->query($sql);

    if ($result->num_rows > 0) {
        $row = $result->fetch_assoc();
        if (password_verify($password, $row['password'])) {
            $_SESSION['user'] = $username;
            header("Location: pages/dashboard.php");
        } else {
            echo "Password salah!";
        }
    } else {
        echo "User tidak ditemukan!";
    }
}
?>
```

d) `pages/dashboard.php` (Dashboard Utama)

```

php

<?php
session_start();
if (!isset($_SESSION['user'])) {
    header("Location: ../index.html");
    exit();
}
include '../includes/db_connect.php';

$sql = "SELECT * FROM products";
$result = $conn->query($sql);
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Dashboard</title>
    <link rel="stylesheet" href="../assets/css/style.css">
</head>
<body>
    <h2>Dashboard Inventory</h2>
    <table border="1">
        <tr>
            <th>ID</th>
            <th>Nama Produk</th>
            <th>Stok</th>
            <th>Harga</th>
            <th>Aksi</th>
        </tr>
        <?php while ($row = $result->fetch_assoc()) { ?>
            <tr>
                <td><?= $row['id'] ?></td>
                <td><?= $row['name'] ?></td>
                <td><?= $row['quantity'] ?></td>
                <td><?= $row['price'] ?></td>
                <td>
                    <a href="edit_product.php?id=<?= $row['id'] ?>">Edit</a>
                    <a href="delete_product.php?id=<?= $row['id'] ?>">Hapus</a>
                </td>
            </tr>
        <?php } ?>
    </table>
    <a href="add_product.php">Tambah Produk</a> |
    <a href=" ../logout.php">Logout</a>
</body>
</html>

```

e) `logout.php` (Proses Logout)

```

php

<?php
session_start();
session_destroy();
header("Location: index.html");
?>

```