**Nama : Najwa Nabila Kusuma Devi**

**NIM : 12030123130148**

**Matkul: Pengkodean dan Pemrograman kelas D**

**TUGAS 4**

**Aplikasi Inventory Management System**

*Kode Aplikasi Inventory Management System*

1. **STRUKTUR DATABASE SQL**

CREATE DATABASE inventory\_db;

USE inventory\_db;

CREATE TABLE products (

id INT AUTO\_INCREMENT PRIMARY KEY,

name VARCHAR(100) NOT NULL,

category VARCHAR(50),

quantity INT NOT NULL,

price DECIMAL(10,2) NOT NULL,

created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP

);

1. **STRUKTUR FILE PROYEK**

inventory\_system/

│── index.php

│── add\_product.php

│── delete\_product.php

│── update\_product.php

│── database.php

│── style.css

└── script.js

1. **Kode Backend PHP (database.php)**

<?php

$servername = "localhost";

$username = "root";

$password = "";

$database = "inventory\_db";

$conn = new mysqli($servername, $username, $password, $database);

if ($conn->connect\_error) {

die("Koneksi gagal: " . $conn->connect\_error);

}

?>

1. **Tampilan Utama (index.php)**

<?php include 'database.php'; ?>

<!DOCTYPE html>

<html lang="id">

<head>

<meta charset="UTF-8">

<title>Manajemen Persediaan</title>

<link rel="stylesheet" href="style.css">

</head>

<body>

<h2>Daftar Produk</h2>

<table border="1">

<tr>

<th>ID</th>

<th>Nama</th>

<th>Kategori</th>

<th>Jumlah</th>

<th>Harga</th>

<th>Aksi</th>

</tr>

<?php

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

while ($row = $result->fetch\_assoc()) {

echo "<tr>

<td>{$row['id']}</td>

<td>{$row['name']}</td>

<td>{$row['category']}</td>

<td>{$row['quantity']}</td>

<td>Rp{$row['price']}</td>

<td>

<a href='update\_product.php?id={$row['id']}'>Edit</a> |

<a href='delete\_product.php?id={$row['id']}'>Hapus</a>

</td>

</tr>";

}

?>

</table>

<h3>Tambah Produk</h3>

<form action="add\_product.php" method="POST">

<input type="text" name="name" placeholder="Nama Produk" required>

<input type="text" name="category" placeholder="Kategori">

<input type="number" name="quantity" placeholder="Jumlah" required>

<input type="text" name="price" placeholder="Harga" required>

<button type="submit">Tambah</button>

</form>

</body>

</html>

1. **Menambahkan Produk (add\_product.php)**

<?php

include 'database.php';

if ($\_SERVER["REQUEST\_METHOD"] == "POST") {

$name = $\_POST["name"];

$category = $\_POST["category"];

$quantity = $\_POST["quantity"];

$price = $\_POST["price"];

$stmt = $conn->prepare("INSERT INTO products (name, category, quantity, price) VALUES (?, ?, ?, ?)");

$stmt->bind\_param("ssii", $name, $category, $quantity, $price);

$stmt->execute();

header("Location: index.php");

}

?>

1. **Menghapus Produk (delete\_product.php)**

<?php

include 'database.php';

if (isset($\_GET["id"])) {

$id = $\_GET["id"];

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

}

header("Location: index.php");

?>

1. **Memperbarui Produk (update\_product.php)**

<?php

include 'database.php';

if (isset($\_GET["id"])) {

$id = $\_GET["id"];

$result = $conn->query("SELECT \* FROM products WHERE id = $id");

$row = $result->fetch\_assoc();

}

if ($\_SERVER["REQUEST\_METHOD"] == "POST") {

$name = $\_POST["name"];

$category = $\_POST["category"];

$quantity = $\_POST["quantity"];

$price = $\_POST["price"];

$stmt = $conn->prepare("UPDATE products SET name=?, category=?, quantity=?, price=? WHERE id=?");

$stmt->bind\_param("ssiii", $name, $category, $quantity, $price, $id);

$stmt->execute();

header("Location: index.php");

}

?>

<!DOCTYPE html>

<html lang="id">

<head>

<meta charset="UTF-8">

<title>Edit Produk</title>

</head>

<body>

<h2>Edit Produk</h2>

<form method="POST">

<input type="text" name="name" value="<?= $row['name'] ?>" required>

<input type="text" name="category" value="<?= $row['category'] ?>">

<input type="number" name="quantity" value="<?= $row['quantity'] ?>" required>

<input type="text" name="price" value="<?= $row['price'] ?>" required>

<button type="submit">Update</button>

</form>

</body>

</html>

1. **Styling dengan CSS (style.css)**

body {

font-family: Arial, sans-serif;

margin: 20px;

}

table {

width: 100%;

border-collapse: collapse;

}

th, td {

padding: 10px;

text-align: left;

border: 1px solid black;

}

form {

margin-top: 20px;

}

input, button {

padding: 8px;

margin: 5px;

}

button {

cursor: pointer;

}