

NAMA :WAHYU RAMADHAN
NIM :2024201004
PRODI :TEKNOOGI INFORMASI

INDEKS PHP

```
<?php
require_once 'Produk.php';
require_once 'Keranjang.php';

$produkModel = new Produk();
$keranjang = new Keranjang();

// Mengambil data produk dinamis langsung dari Database
$daftarProduk = $produkModel->getAll();

// Logika pemrosesan Form request
if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    if (isset($_POST['aksi']) && $_POST['aksi'] == 'tambah') {
        $idProduk = $_POST['produk_id'];
        $jumlah = (int)$_POST['jumlah'];

        // Cari produk dari database berdasarkan ID yang dipilih
        $produkTerpilih = $produkModel->getById($idProduk);

        if ($produkTerpilih && $jumlah > 0) {
            $keranjang->tambahItem($produkTerpilih, $jumlah);
        }
    }

    if (isset($_POST['aksi']) && $_POST['aksi'] == 'kosongkan') {
        $keranjang->kosongkan();
    }
}

// Logika Hitung Kembalian
$totalBelanja = $keranjang->hitungTotal();
$bayar = isset($_POST['bayar']) ? (int)$_POST['bayar'] : 0;
$kembalian = 0;
if ($bayar >= $totalBelanja && $totalBelanja > 0) {
    $kembalian = $bayar - $totalBelanja;
}
?>

<!DOCTYPE html>
<html lang="id">
```

```

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Aplikasi Kasir Web (OOP + Database)</title>
  <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css"
rel="stylesheet">
</head>
<body class="bg-light">

<nav class="navbar navbar-dark bg-dark mb-4">
  <div class="container">
    <span class="navbar-brand mb-0 h1"><img alt="POS Kasir Digital v2 (OOP & MySQL)" data-bbox="538 291 561 306"/> POS Kasir Digital v2 (OOP &
MySQL)</span>
  </div>
</nav>

<div class="container">
  <div class="row">
    <div class="col-md-5 mb-4">
      <div class="card shadow-sm">
        <div class="card-header bg-primary text-white">
          <h5 class="card-title mb-0">Pilih Menu / Produk (Dari
Database)</h5>
        </div>
        <div class="card-body">
          <form action="" method="POST">
            <input type="hidden" name="aksi" value="tambah">
            <div class="mb-3">
              <label class="form-label">Nama Item</label>
              <select name="produk_id" class="form-select"
required>
                <option value="">-- Pilih Produk --</option>
                <?php foreach ($daftarProduk as $p): ?>
                  <option value="<?=$p->getId(); ?>">
                    <?=$p->getNama();
?> - Rp<?=$p->getHarga(), 0, ',', '.'>; ?>
                  </option>
                <?php endforeach; ?>
              </select>
            </div>
            <div class="mb-3">
              <label class="form-label">Jumlah (Qty)</label>
              <input type="number" name="jumlah" class="form-
control" value="1" min="1" required>
            </div>
            <button type="submit" class="btn btn-primary w-
100">Tambah ke Struk</button>

```

```

        </form>
    </div>
</div>

<div class="card shadow-sm mt-4">
    <div class="card-header bg-success text-white">
        <h5 class="card-title mb-0">Pembayaran</h5>
    </div>
    <div class="card-body">
        <form action="" method="POST">
            <div class="mb-3">
                <label class="form-label">Total Belanja</label>
                <input type="text" class="form-control bg-light
fw-bold text-danger" value="Rp<?= number_format($totalBelanja, 0, ',', '.');
?>" readonly>
            </div>
            <div class="mb-3">
                <label class="form-label">Nominal Uang
Bayar</label>
                <input type="number" name="bayar" class="form-
control" value="<?= $bayar ?>" min="0" required>
            </div>
            <button type="submit" class="btn btn-success w-100 mb-
2">Hitung Kembalian</button>
        </form>

        <?php if ($bayar > 0): ?>
            <div class="alert alert-info mt-3 py-2 text-center">
                <strong>Kembalian: </strong> Rp<?=
number_format($kembalian, 0, ',', '.'); ?>
            </div>
        <?php endif; ?>
    </div>
</div>
</div>

<div class="col-md-7">
    <div class="card shadow-sm">
        <div class="card-header bg-secondary text-white d-flex
justify-content-between align-items-center">
            <h5 class="card-title mb-0">Daftar Transaksi / Struk
Belanja</h5>
            <form action="" method="POST" onsubmit="return
confirm('Kosongkan struk belanja?')">
                <input type="hidden" name="aksi" value="kosongkan">
                <button type="submit" class="btn btn-danger btn-
sm">Reset</button>
            </form>

```

```

</div>
<div class="card-body p-0">
  <table class="table table-striped mb-0">
    <thead class="table-dark">
      <tr>
        <th class="ps-3">Nama Produk</th>
        <th class="text-end">Harga</th>
        <th class="text-center">Qty</th>
        <th class="text-end pe-3">Subtotal</th>
      </tr>
    </thead>
    <tbody>
      <?php
        $items = $keranjang->getItems();
        if (empty($items)):
          ?>
            <tr>
              <td colspan="4" class="text-center text-
muted py-4">Belum ada item yang ditambahkan.</td>
            </tr>
          <?php else: ?>
            <?php foreach ($items as $id => $item):
              $subtotal = $item['harga'] *
$item['jumlah'];
            <?>
              <tr>
                <td class="ps-3"><?=  
htmlspecialchars($item['nama']) ?></td>
                <td class="text-end">Rp<?=  
number_format($item['harga'], 0, ',', '.') ?></td>
                <td class="text-center"><?=  
$item['jumlah'] ?></td>
                <td class="text-end pe-3">Rp<?=  
number_format($subtotal, 0, ',', '.') ?></td>
              </tr>
            <?php endforeach; ?>
            <tr class="table-warning fw-bold">
              <td colspan="3" class="text-end ps-
3">TOTAL YANG HARUS DIBAYAR:</td>
              <td class="text-end pe-3">Rp<?=  
number_format($totalBelanja, 0, ',', '.') ?></td>
            </tr>
          <?php endif; ?>
        </tbody>
      </table>
    </div>
  </div>
</div>

```

```

    </div>
</div>

<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/js/bootstrap.bundle.min
.js"></script>
</body>
</html>

```

DATABASE

```

<?php
class Database {
    private $host = "localhost";
    private $username = "root";
    private $password = "";
    private $db_name = "db_kasir";
    protected $conn;

    public function __construct() {
        try {
            $this->conn = new PDO("mysql:host=" . $this->host . ";dbname=" .
$this->db_name, $this->username, $this->password);
            $this->conn->setAttribute(PDO::ATTR_ERRMODE,
PDO::ERRMODE_EXCEPTION);
        } catch (PDOException $exception) {
            die("Koneksi Database Gagal: " . $exception->getMessage());
        }
    }
}
?>

```

PRODUK

```

<?php
require_once 'Database.php';

// Penerapan Inheritance (Pewarisan properti koneksi dari class Database)
class Produk extends Database {
    private $id;
    private $nama;
    private $harga;

    public function __construct($id = null, $nama = null, $harga = null) {
        parent::__construct(); // Memanggil constructor Database untuk
mengaktifkan koneksi
    }
}

```

```

        $this->id = $id;
        $this->nama = $nama;
        $this->harga = $harga;
    }

    // Enkapsulasi (Getter)
    public function getId() { return $this->id; }
    public function getNama() { return $this->nama; }
    public function getHarga() { return $this->harga; }

    // Metode untuk mengambil semua data produk dari database (Read)
    public function getAll() {
        $query = "SELECT * FROM produk ORDER BY id DESC";
        $stmt = $this->conn->prepare($query);
        $stmt->execute();

        $daftarProduk = [];
        while ($row = $stmt->fetch(PDO::FETCH_ASSOC)) {
            $daftarProduk[$row['id']] = new Produk($row['id'], $row['nama'],
$row['harga']);
        }
        return $daftarProduk;
    }

    // Metode untuk mengambil data satu produk spesifik berdasarkan ID
    public function getById($id) {
        $query = "SELECT * FROM produk WHERE id = :id LIMIT 1";
        $stmt = $this->conn->prepare($query);
        $stmt->bindParam(':id', $id);
        $stmt->execute();

        $row = $stmt->fetch(PDO::FETCH_ASSOC);
        if ($row) {
            return new Produk($row['id'], $row['nama'], $row['harga']);
        }
        return null;
    }
}
?>

```

KERANJANG

```

<?php
class Keranjang {
    public function __construct() {
        if (session_status() == PHP_SESSION_NONE) {
            session_start();
        }
    }
}

```

```
}
if (!isset($_SESSION['keranjang'])) {
    $_SESSION['keranjang'] = [];
}
}

public function tambahItem(Produk $produk, $jumlah) {
    $id = $produk->getId();
    if (isset($_SESSION['keranjang'][$id])) {
        $_SESSION['keranjang'][$id]['jumlah'] += $jumlah;
    } else {
        $_SESSION['keranjang'][$id] = [
            'nama' => $produk->getNama(),
            'harga' => $produk->getHarga(),
            'jumlah' => $jumlah
        ];
    }
}

public function.getItems() {
    return $_SESSION['keranjang'];
}

public function hitungTotal() {
    $total = 0;
    foreach ($_SESSION['keranjang'] as $item) {
        $total += $item['harga'] * $item['jumlah'];
    }
    return $total;
}

public function kosongkan() {
    $_SESSION['keranjang'] = [];
}
}
?>
```