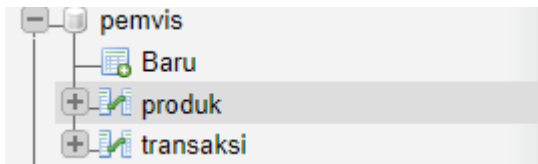Nama : AMELIA FEBRIYANTI WALUYO

Nim : 18050623021

Prodi : D3 MANAJEMEN INFORMATIKA

Laporan Aplikasi Kasir (dengan Java)

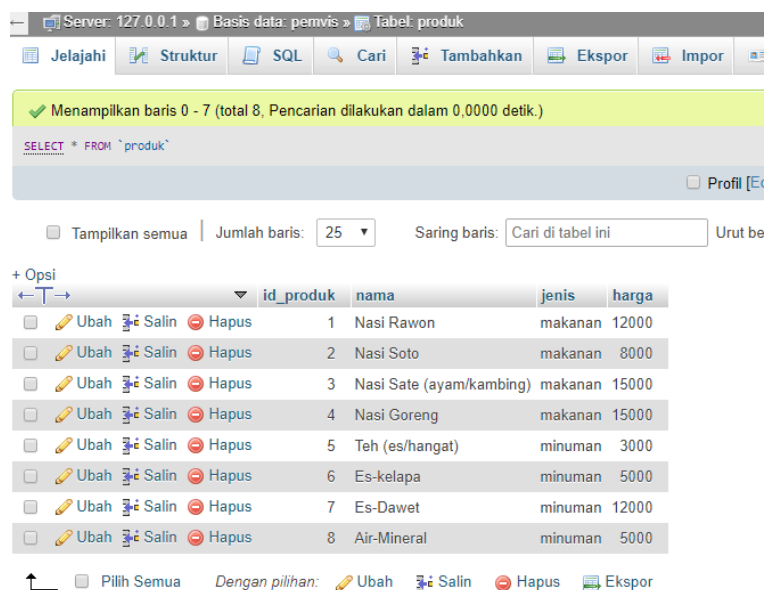A. **Buat Databasenya terlebih dahulu , saya pakai PhpMyAdmin dengan koneksi PDO**

Terdapat 2 tabel yaitu Produk dan Transaksi

1. **Produk**

2. Tabel yang kedua terdapat Transaksi

#	Nama	Jenis	Penyortiran	Atribut	Tak Ternilai	Bawaan	Komentar	Ekstra	Tindakan
1	id_transaksi 🔑	int(11)			Tidak	Tidak ada		AUTO_INCREMENT	🖉 Ubah ⊖ Hapus ▽ Lainnya
2	Nama_kasir	varchar(50)	latin1_swedish_ci		Tidak	Tidak ada			🖉 Ubah ⊖ Hapus ▽ Lainnya
3	tanggal_transaksi	date			Tidak	Tidak ada			🖉 Ubah ⊖ Hapus ▽ Lainnya
4	Total_harga	int(11)			Tidak	Tidak ada			🖉 Ubah ⊖ Hapus ▽ Lainnya

Dalam tabel transaksi kosong karena ia akan terisi otomatis di halaman index.php

B. Class Diagram
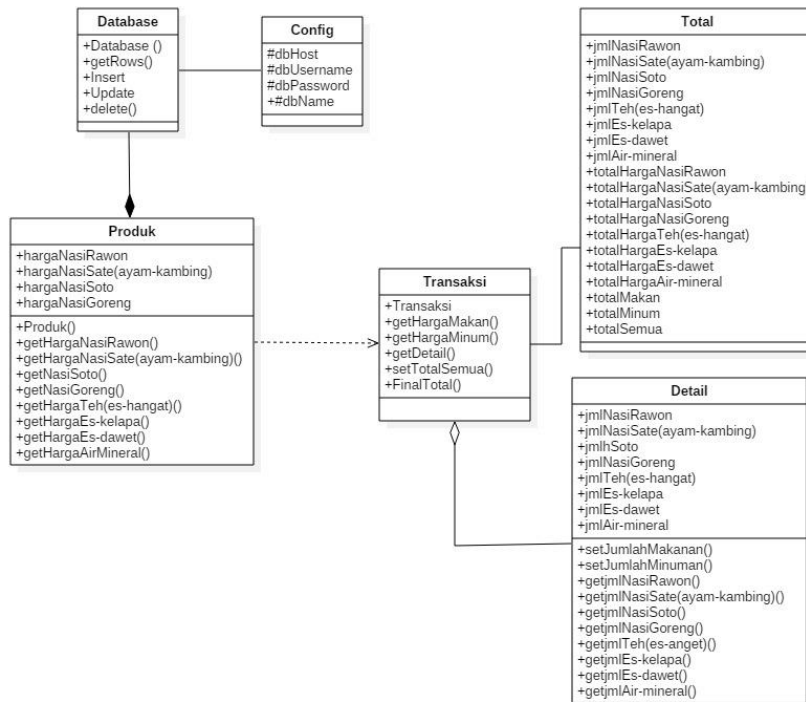
C. Selanjutnya untuk membuat program Aplikasi kasir kita membutuhkan beberapa dokumen php, (pemvis2.sql) bisa di import di phpmyadmin(localhost).

Name	Date modified	Type	Size
class.php	2/23/2020 9:16 PM	PHP Source File	4 KB
Database.php	2/22/2020 7:12 PM	PHP Source File	6 KB
fungsi.php	2/22/2020 7:12 PM	PHP Source File	4 KB
index.php	2/22/2020 7:12 PM	PHP Source File	6 KB
pemvis2.sql	2/22/2020 7:12 PM	SQL Source File	3 KB

A. Source code – (CLASS)

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

class Total
{
  protected $totalHargaRawon;
  protected $totalHargaSoto;
  protected $totalHargaKare;
  protected $totalHargaTeh;
  protected $totalHargaJeruk;
  protected $totalHargaMarimas;

  protected $totalMakan;
  protected $totalMinum;

  protected $totalSeluruh;
  protected $coba;

  protected $detail;
  protected $produk;

}

class Produk {
private $hargaRawon;
private $hargaSoto;
private $hargaKare;
private $hargaTeh;
private $hargaJeruk;
private $hargaMarimas;


 function __construct() {
  $db = new DB();

  $users = $db->getRows('produk',array('order_by'=>'id_produk DESC'));

  foreach ($users as $row) {
    $harga[$row['nama']] = $row['harga'];
  }
```

```php
  extract($harga);

  $this->hargaRawon = $Rawon;
  $this->hargaSoto = $Soto;
  $this->hargaKare = $Kare;
  $this->hargaTeh = $Teh;
  $this->hargaJeruk = $Jeruk;
  $this->hargaMarimas = $Marimas;
 }

 public function getHargaRawon()
 {
  return $this->hargaRawon;
 }
 public function getHargaSoto()
 {
  return $this->hargaSoto;
 }
 public function getHargaKare()
 {
  return $this->hargaKare;
 }
 public function getHargaTeh()
 {
  return $this->hargaTeh;
 }
 public function getHargaJeruk()
 {
  return $this->hargaJeruk;
 }
 public function getHargaMarimas()
 {
  return $this->hargaMarimas;
 }
}


class Detail {

private $JmlRawon;
private $JmlSoto;
private $JmlKare;
private $JmlTeh;
private $JmlJeruk;
private $JmlMarimas;

 public function setJumlahMakan($JmlRawon,$JmlSoto,$JmlKare){
  $this->JmlRawon = $JmlRawon;
  $this->JmlSoto = $JmlSoto;
  $this->JmlKare = $JmlKare;
 }

 public function setJumlahMinum($JmlTeh,$JmlJeruk,$JmlMarimas){
  $this->JmlTeh = $JmlTeh;
  $this->JmlJeruk = $JmlJeruk;
  $this->JmlMarimas = $JmlMarimas;
 }

 public function getJmlRawon()
 {
  return $this->JmlRawon;
```

```php
    }
  public function getJmlSoto()
  {
    return $this->JmlSoto;
  }
  public function getJmlKare()
  {
    return $this->JmlKare;
  }
  public function getJmlTeh()
  {
    return $this->JmlTeh;
  }
  public function getJmlJeruk()
  {
    return $this->JmlJeruk;
  }
  public function getJmlMarimas()
  {
    return $this->JmlMarimas;
  }
}

class Transaksi extends Total {

  function __construct($detail,$produk)
  {
    $this->detail = $detail;
     $this->produk = $produk;
  }

  public function getHargaMakan() {
   $this->totalHargaRawon = $this->produk->getHargaRawon() * $this->detail->getJmlRawon();
   $this->totalHargaSoto = $this->produk->getHargaSoto()* $this->detail->getJmlSoto();
   $this->totalHargaKare = $this->produk->getHargaKare()* $this->detail->getJmlKare();
   $this->totalMakan = $this->totalHargaRawon + $this->totalHargaSoto + $this-
>totalHargaKare;
  }

  public function getHargaMinum() {
   $this->totalHargaTeh = $this->produk->getHargaTeh() * $this->detail->getJmlTeh();
   $this->totalHargaJeruk = $this->produk->getHargaJeruk()* $this->detail->getJmlJeruk();
   $this->totalHargaMarimas = $this->produk->getHargaMarimas()* $this->detail-
>getJmlMarimas();
   $this->totalMinum = $this->totalHargaTeh + $this->totalHargaJeruk + $this-
>totalHargaMarimas;
  }
  public function setTotalSeluruh() {
   $this->totalSeluruh = $this->totalMakan + $this->totalMinum;
  }

  public function getDetail() {
   return $this->detail;
  }

  public function Finaltotal() {
   echo "================&& Struk Total Pembelian $$=================";
   echo "<br>";
   echo "Total Harga Makanan = Rp. ".$this->totalMakan.",-";
   echo "<br>";
   echo "<br>";
```

```php
  echo "Total Harga Minuman = Rp. ".$this->totalMinum.",-";
  echo "<br><br>";
  echo "Total Keseluruhan = Rp. ".$this->totalSeluruh.",-";
  echo "<br>";
  echo "=====================================================";
  echo "<br>";
  echo $this->JmlMarimas;
  echo $this->JmlKare;
  echo "<script>window.print()</script>";
 }
}

 ?>
```

B. Source Code (Index.php)

```php
<?php
include 'fungsi.php';
?>
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<title>Kasir WaroengQue</title>

<!-- Bootstrap -->
<link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/css/bootstrap.min.css">
<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/font-
awesome/4.4.0/css/font-awesome.min.css">

<!-- HTML5 Shim and Respond.js IE8 support of HTML5 elements and media queries -->
<!-- WARNING: Respond.js doesn't work if you view the page via file:// -->
<!--[if lt IE 9]>
<script src="https://oss.maxcdn.com/libs/html5shiv/3.7.2/html5shiv.js"></script>
```

```html
<script src="https://oss.maxcdn.com/libs/respond.js/1.4.2/respond.min.js"></script>
<![endif]-->
<style type="text/css">
.harga{
float: right;
margin-right:  500px;
}
.menuka{
float: left;
}
.menuki{
float: right;
margin-right: 450px;
}
.pesanka{
width: 170px;
float: right;
margin-right: 80px;
}
.pesanki{
width: 170px;
float: left;
}
</style>
</head>
<body>
<nav class="navbar-inverse" role="navigation" >
<div class="container-fluid">
<div class="navbar-header">
<a class="navbar-brand" href="#" data-toggle="modal" data-target="#buy">
WaroengQue</a>
</div>
```

```html
</div><!-- /.container-fluid -->
</nav>
<div class="container" style="margin-top:50px;">
<div class=" panel-success">
<div class="panel-body bg-primary">
<div class="container">
<h1><img src="img/Food.png" height="50px" width="50px"> Selamat datang di
WaroengQue</h1>
<h2> Selamat Makan :)</h2>
</div>
</div>
</div>

<div class="panel panel-default">
<div class="panel-body">
<div class="container">
<div class="col-md-10" style="width: 800px;">
<h2 style="float: left;">Harga Makanan:</h2>
<h2 style="float: right;">Harga Minuman:</h2>
</div>
<br><br><br> <h3></h3><br>
<h3 class="menuka">Nasi Rawon</h3><h3 class="menuki" style="margin-right:
470px">Teh/Es </h3>
<br><br><br>
<h4 class="harga">3000</h4><h4>12000</h4>
<h3 class="menuka">Nasi Soto</h3><h3 class="menuki" >Jeruk/Es </h3>
<br><br><br>
<h4 class="harga">4000</h4><h4>12000</h4>
<h3 class="menuka">Nasi Kare</h3><h3 class="menuki" >Marimas</h3>
<br><br><br>
<h4 class="harga">2000</h4><h4>6000</h4>
</div>
```

```html
</div>
</div>
</div>

<!-- [Modal Form] -->
<div class=" " id=""  >
<div class="modal-dialog">
<div class="modal-content">
<div class="modal-header bg-danger" style="border-radius: 5px 5px 0px 0px;">
<h4 class="modal-title" id="">Form pembelian</h4>
</div>
<div class="modal-body">
<form class="form-group" action="fungsi.php" method="post">

<div class="input-group pesanki" >
<span class="input-group-addon" style="width: 100px;">Makanan</span>
<span class="form-control">Jumlah</span>
</div>
<div class="input-group pesanka" >
<span class="input-group-addon" style="width: 100px;">Minuman</span>
<span class="form-control">Jumlah</span>
</div>
<br><br><br>
<div class="input-group pesanki"  >
<span class="input-group-addon" style="width: 100px">Nasi Rawon</span>
<input type="number" class="form-control"  name="rawon">
</div>

<div class="input-group pesanka"  >
<span class="input-group-addon" style="width: 100px">Teh/Es </span>
<input type="number" class="form-control" name="teh">
</div>
<br><br><br>
```

```html
<div class="input-group pesanki"  >
<span class="input-group-addon" style="width: 100px">Nasi Soto</span>
<input type="number" class="form-control" name="soto">
</div>


<div class="input-group pesanka"  >
<span class="input-group-addon" style="width: 100px">Jeruk/Es </span>
<input type="number" class="form-control" name="jeruk">
</div>
<br><br><br>
<div class="input-group pesanki"  >
<span class="input-group-addon" style="width: 100px">Nasi Kare</span>
<input type="number" class="form-control" name="kare">
</div>


<div class="input-group pesanka"  >
<span class="input-group-addon" style="width: 100px">Marimas</span>
<input type="number" class="form-control" name="marimas">
</div>
<br><br><br>



</div>
<div class="modal-footer">
<button type="submit" class="btn btn-primary" name="check" ><i class="fa fa-check"></i>
Cek Total</button>
</form>
</div>
</div>
</div>
</div>


<!-- jQuery (necessary for Bootstrap's JavaScript plugins) -->
```

```
<script src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.3/jquery.min.js"></script>
Include all compiled plugins (below), or include individual files as needed
<script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/js/bootstrap.min.js"></script>
</body>
</html>
```

C. Source Code (Fungsi.php)

```
<style type="text/css">

.page {
width: 297mm;
min-height: 148mm;
padding: 2mm;
margin: 10mm auto;
border-radius: 5px;
background: white;
box-shadow: 0 0 5px rgba(0, 0, 0, 0.1);
}
.subpage {
padding: 0.5cm;
height: 80mm;
background-color: white;
opacity: 0.8;
filter: alpha(opacity=40);
}

@page {
size: a5;
size: landscape;
margin: 50;
```

```
}
@media print {
html {
width: 297mm;
height: 148mm;
}
body{
padding-top: 90px;
background: url("images/logoupprint.png") no-repeat;
background-size: 100%;
width: 297mm;
height: 148mm;
}

.page {
margin: 0;
border: initial;
border-radius: initial;
width: initial;
min-height: initial;
box-shadow: initial;
background: initial;
page-break-after: always;
}
}

</style>
<?php
include 'class.php';
$produk = new Produk();
$detail = new Detail();
$jumlah = new Transaksi($detail,$produk);
```

```php
if (isset($_POST['check'])) {
$jmlRawon = $_POST['rawon'];
$jmlSoto = $_POST['soto'];
$jmlKare = $_POST['kare'];
$jmlTeh = $_POST['teh'];
$jmlJeruk = $_POST['jeruk'];
$jmlMarimas = $_POST['marimas'];

if ($jmlRawon == null && $jmlSoto != null && $jmlKare != null) {
$jumlah->getDetail()->setJumlahMakan(0,$jmlSoto,$jmlKare);
} elseif ($jmlRawon != null && $jmlSoto == null && $jmlKare != null) {
$jumlah->getDetail()->setJumlahMakan($jmlRawon,0,$jmlKare);
} elseif ($jmlRawon != null && $jmlSoto != null && $jmlKare == null) {
$jumlah->getDetail()->setJumlahMakan($jmlRawon,$jmlSoto,0);
} elseif ($jmlRawon == null && $jmlSoto == null && $jmlKare != null) {
$jumlah->getDetail()->setJumlahMakan(0,0,$jmlKare);
} elseif ($jmlRawon == null && $jmlSoto != null && $jmlKare == null) {
$jumlah->getDetail()->setJumlahMakan(0,$jmlSoto,0);
} elseif ($jmlRawon != null && $jmlSoto == null && $jmlKare == null) {
$jumlah->getDetail()->setJumlahMakan($jmlRawon,0,0);
} elseif ($jmlRawon == null && $jmlKare == null && $jmlSoto == null) {
$jumlah->getDetail()->setJumlahMakan(0,0,0);
} else {
$jumlah->getDetail()->setJumlahMakan($jmlRawon,$jmlSoto,$jmlKare);
}

if ($jmlTeh == null && $jmlJeruk != null && $jmlMarimas != null) {
$jumlah->getDetail()->setJumlahMinum(0,$jmlJeruk,$jmlMarimas);
} elseif ($jmlTeh != null && $jmlJeruk == null && $jmlMarimas != null) {
$jumlah->getDetail()->setJumlahMinum($jmlTeh,0,$jmlMarimas);
} elseif ($jmlTeh != null && $jmlJeruk != null && $jmlMarimas == null) {
$jumlah->getDetail()->setJumlahMinum($jmlTeh,$jmlJeruk,0);
} elseif ($jmlTeh == null && $jmlJeruk == null && $jmlMarimas != null) {
```

```php
$jumlah->getDetail()->setJumlahMinum(0,0,$jmlMarimas);
} elseif ($jmlTeh == null && $jmlJeruk != null && $jmlMarimas == null) {
$jumlah->getDetail()->setJumlahMinum(0,$jmlJeruk,0);
} elseif ($jmlTeh != null && $jmlJeruk == null && $jmlMarimas == null) {
$jumlah->getDetail()->setJumlahMinum($jmlTeh,0,0);
} elseif ($jmlTeh == null && $jmlMarimas == null && $jmlJeruk == null) {
$jumlah->getDetail()->setJumlahMinum(0,0,0);
} else {
$jumlah->getDetail()->setJumlahMinum($jmlTeh,$jmlJeruk,$jmlMarimas);
}


$jumlah->getHargaMakan();
$jumlah->getHargaMinum();
$jumlah->setTotalSeluruh();
$jumlah->Finaltotal();
}
?>
```

Source Code (Database / koneksi .php)

```php
<?php
class config
{
  protected $dbHost    = "localhost";
  protected $dbUsername = "root";
  protected $dbPassword = "";
  protected $dbName    = "pemvis";
}
class DB extends config{

  public function __construct(){
    if(!isset($this->db)){
      // Connect to the database
```

```php
        try{
            $conn = new PDO("mysql:host=".$this->dbHost.";dbname=".$this->dbName, $this->dbUsername, $this->dbPassword);
            $conn -> setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);
            $this->db = $conn;
        }catch(PDOException $e){
            die("Failed to connect with MySQL: " . $e->getMessage());
        }
    }
}


/*
 * Returns rows from the database based on the conditions
 * @param string name of the table
 * @param array select, where, order_by, limit and return_type conditions
 */
public function getRows($table,$conditions = array()){
    $sql = 'SELECT ';
    $sql .= array_key_exists("select",$conditions)?$conditions['select']:'*';
    $sql .= ' FROM '.$table;
    if(array_key_exists("where",$conditions)){
        $sql .= ' WHERE ';
        $i = 0;
        foreach($conditions['where'] as $key => $value){
            $pre = ($i > 0)?' AND ':'';
            $sql .= $pre.$key." = '".$value."'";
            $i++;
        }
    }


    if(array_key_exists("order_by",$conditions)){
        $sql .= ' ORDER BY '.$conditions['order_by'];
    }
```

```php
    if(array_key_exists("start",$conditions) && array_key_exists("limit",$conditions)){
        $sql .= ' LIMIT '.$conditions['start'].','.$conditions['limit'];
    }elseif(!array_key_exists("start",$conditions) &&
array_key_exists("limit",$conditions)){
        $sql .= ' LIMIT '.$conditions['limit'];
    }


    $query = $this->db->prepare($sql);
    $query->execute();


    if(array_key_exists("return_type",$conditions) && $conditions['return_type'] != 'all'){
        switch($conditions['return_type']){
            case 'count':
                $data = $query->rowCount();
                break;
            case 'single':
                $data = $query->fetch(PDO::FETCH_ASSOC);
                break;
            default:
                $data = '';
        }
    }else{
        if($query->rowCount() > 0){
            $data = $query->fetchAll();
        }
    }
    return !empty($data)?$data:false;
}


/*
 * Insert data into the database
 * @param string name of the table
```

```php
 * @param array the data for inserting into the table
 */
public function insert($table,$data){
    if(!empty($data) && is_array($data)){
        $columns = '';
        $values  = '';
        $i = 0;


        $columnString = implode(',', array_keys($data));
        $valueString = ":".implode(',:', array_keys($data));
        $sql = "INSERT INTO ".$table." (".$columnString.") VALUES (".$valueString.")";
        $query = $this->db->prepare($sql);
        foreach($data as $key=>$val){
            $query->bindValue(':'.$key, $val);
        }
        $insert = $query->execute();
        return $insert?$this->db->lastInsertId():false;
    }else{
        return false;
    }
}

/*
 * Update data into the database
 * @param string name of the table
 * @param array the data for updating into the table
 * @param array where condition on updating data
 */
public function update($table,$data,$conditions){
    if(!empty($data) && is_array($data)){
        $colvalSet = '';
        $whereSql = '';
```

```php
    $i = 0;
    if(!array_key_exists('modified',$data)){
      $data['modified'] = date("Y-m-d H:i:s");
    }
    foreach($data as $key=>$val){
      $pre = ($i > 0)?', ':'';
      $colvalSet .= $pre.$key."='".$val."'";
      $i++;
    }
    if(!empty($conditions)&& is_array($conditions)){
      $whereSql .= ' WHERE ';
      $i = 0;
      foreach($conditions as $key => $value){
        $pre = ($i > 0)?' AND ':'';
        $whereSql .= $pre.$key." = '".$value."'";
        $i++;
      }
    }
    $sql = "UPDATE ".$table." SET ".$colvalSet.$whereSql;
    $query = $this->db->prepare($sql);
    $update = $query->execute();
    return $update?$query->rowCount():false;
  }else{
    return false;
  }
}

/*
 * Delete data from the database
 * @param string name of the table
 * @param array where condition on deleting data
 */
public function delete($table,$conditions){
```

```
    $whereSql = '';
    if(!empty($conditions)&& is_array($conditions)){
      $whereSql .= ' WHERE ';
      $i = 0;
      foreach($conditions as $key => $value){
        $pre = ($i > 0)?' AND ':'';
        $whereSql .= $pre.$key." = '".$value."'";
        $i++;
      }
    }
    $sql = "DELETE FROM ".$table.$whereSql;
    $delete = $this->db->exec($sql);
    return $delete?$delete:false;
  }
}
```

Tampilan Program

- menu

- tampilan halaman / daftar menu

- **Form Pembelian**

Warung Murah-Meria

- **Struk Pembayaran**

```
==================&& Struk Total Pembelian $$=================
Total Harga Minuman = Rp. 20000,-

Total Harga Makanan = Rp. 35000,-

Total Keseluruhan = Rp. 55000,-
=======================================================
```