LAPORAN PEMROGRAMAN BERBASIS WEB



Dosen:

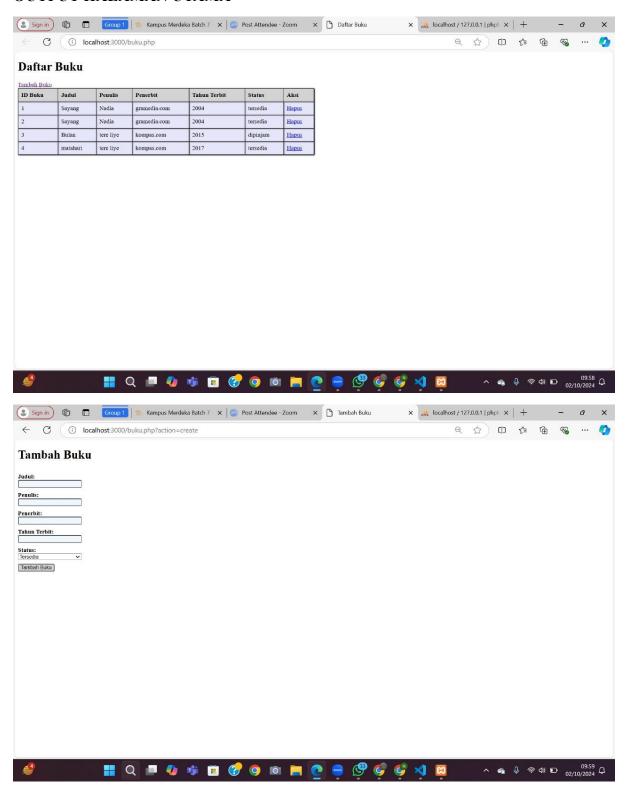
Adi Wahyu Pribadi, S.Si., M.Kom.

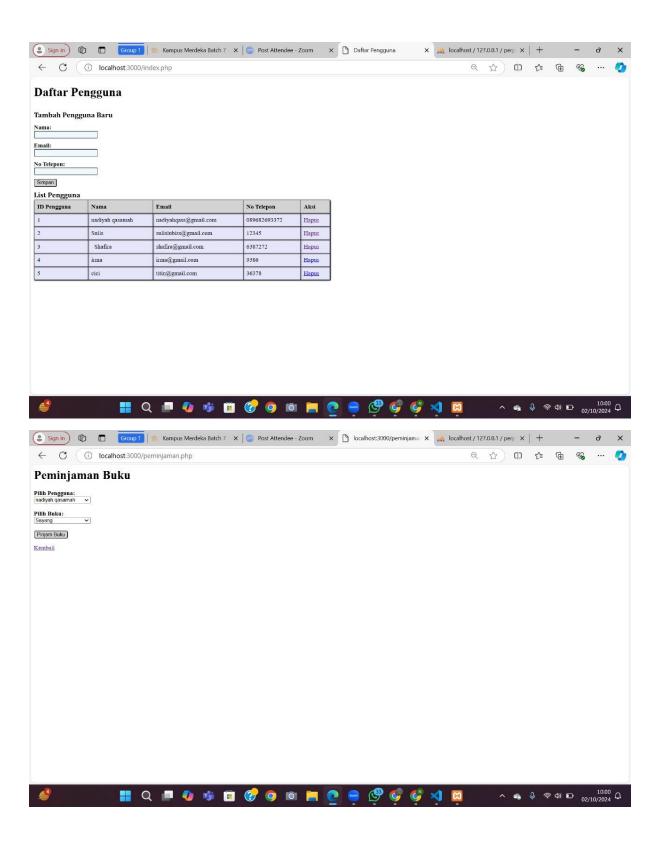
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Sulis Afryanti Lubis – 4522210024 Nadiyah Qasamah – 4522210046 Shafira Desika A – 4522210084

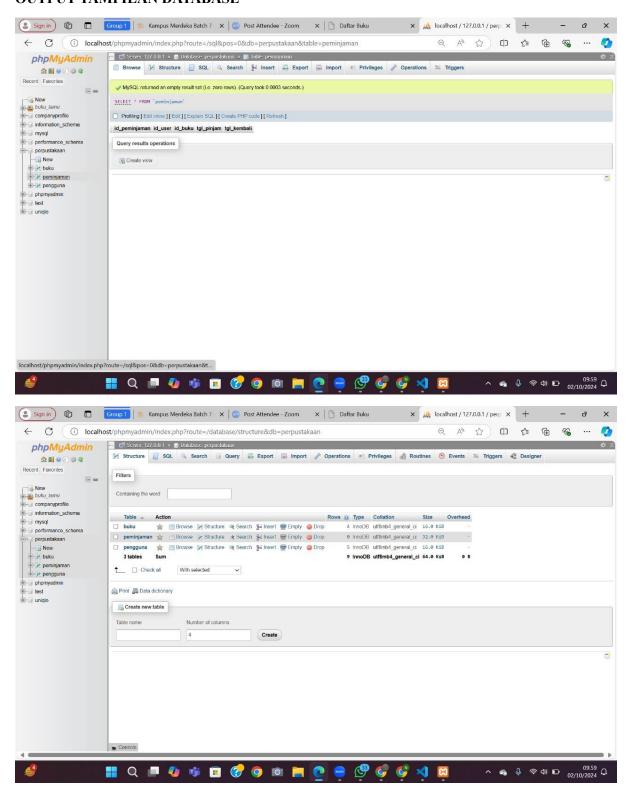
> Universitas Pancasila Fakultas Teknik Teknik Informatika 2024

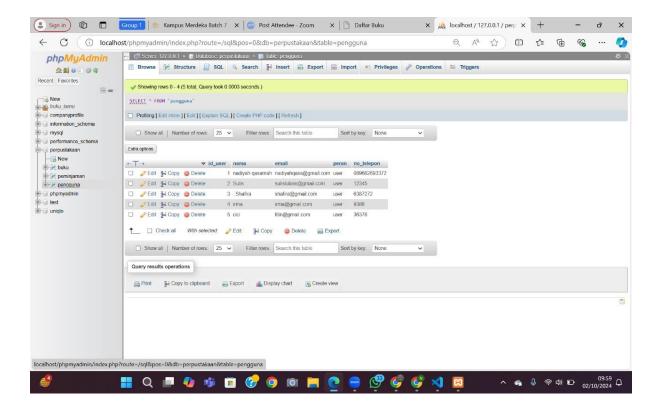
OUTPUT HALAMAN UTAMA





OUTPUT TAMPILAN DATABASE





CODE

Index.php

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                       EXPLORER
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                         PBW-TEORI
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                          > config
                                                                                                                                             require_once 'controllers/PenggunaController.php';
                           > controllers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Section 2
                          > models
                                                                                                                                4  $controller = $_GET['controller'] ?? 'pengguna';
5  $action = $_GET['action'] ?? 'index';
                        > views
                                                                                                                              fetch = 2_ct[ bctch ]: Index ,
fetch = 2_ct[ bctch ]: Index ,
fetch = 2_ct[ bctch ]: Index ,
fetch = 2_ct[ bctch ]:
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fetch = 2_ct[ 
                        ndex.php
                         neminjaman.php
                                                                                                                              if (!in_array($controller, $validControllers)) {

| $controller = 'penggina'.
                                                                                                                               11 | $controller = 'pengguna';
12 }
                                                                                                                                             switch ($controller) {
                                                                                                                                                                      $penggunaController = new PenggunaController();
                                                                                                                                                                   $penggunaController->index();
                > TIMELINE
                                                                                                                       🔡 Q. Search 🚎 🔲 📙 🎧 🚾 😩 🔻 👺 📦 🖸 📈 🗼 A 🔉 ENG 🖘 ¢0 🗈 12/2/2024 🖡 🥼
```

Buku.php

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∠ PBW-TEORI

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          EXPLORER
                                               ··· № Index.php № peminjaman.php № buku.php ×
           PBW-TEORI
           > config
                                                              require_once 'config/Database.php';
require_once 'controllers/BukuController.php';
           > controller:
> models
          > views
                                                              $database = new Database();
                                                              $db = $database->connect();
          m Index.php
                                                        7
8    $controller = $_GET['controller'] ?? 'buku';
9    $action = $_GET['action'] ?? 'index';
10
11
12    $validControllers = ['buku'];
12    $validActions = ['index', 'simpan', 'hapus', 'update', 'create'];
13
                                                               if (!in_array($controller, $validControllers)) {
                                                         15
16
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19
                                                                $bukuController = new BukuController($db);
                                                                switch ($controller) {
                                                         20
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27
                                                                         if ($action === 'simpan') {
   if ($_SERVER['REQUEST_METHOD'] === 'POST') {
        $bukuController->create();
}
                                                                         } 
} elseif ($action === 'hapus' && isset($_GET['id_buku'])) {
    $bukuController->delete($_GET['id_buku']);
} elseif ($action === 'update') {
    if ($_SENER['REQEST_METHO'] === 'POST') {
        $bukuController->update($_POST);
}
                                                                         } elseif ($action === 'create') {
include 'views/buku_form.php'
else {
                                                                                $result = $bukuController->index();
                                                                                include 'views/buku_list.php';
         > OUTLINE
                                                                      default:
                                                    🔡 Q Search 🚎 🔲 🦰 🛜 🚾 🐠 🗷 💖 🖨 🖼 🔻
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```

Peminjaman.php

```
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                                                     ♠ Index.php
♠ peminjaman.php ×
♠ buku.php
                                                                                                                                                                                                                                         ▷ ~ 🗈 ጠ …
Ф
          EXPLORER
           PBW-TEORI
           > config
           > controller
                                                                require_once 'config/Database.php';
require_once 'controllers/PeminjamanController.php';
           > views
           m buku.php
                                                                 $db = (new Database())->connect();
$action = isset($_GET['action']) ? $_GET['action'] : '';
           m Index.php
                                                                 $peminjamanList = $peminjamanController->listPeminjaman();
include 'views/peminjam_list.php';
                                                          13
                                                                           break;
                                                          15
16
17
18
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20
21
22
                                                                                store':
($_SERVER['REQUEST_METHOD'] == 'POST') {
    $id_user = $_POST['id_user'];
    $id_buku = $_POST['id_buku'];
    $peminjamanController = new PeminjamanController($db);
    $peminjamanController-systorePeminjaman($id_user, $id_buku);
}
                                                                                 $pengguna = $peminjamanController->getPenggunaById($id_user);
$buku = $peminjamanController->getBukuById($id_buku);
$_SESSION['message'] = "Berhasil meminjam buku '{$buku('judul']}' oleh '{$pengguna['nama']}' pada " . date('Y
                                                                                 header("Location: index.php?action=peminjam");
                                                                                 exit();
                                                                            break:
                                                                            Dult:

SpeminjamanController = new PeminjamanController($db);

SpemggunaList = SpeminjamanController->listPeminjam();

SbukuList = SpeminjamanController->listBuku();

include 'vlews/peminjaman_form.php';
                                                                            break:
         > OUTLINE
                                                                                        ा 🔁 🖟 🕝 🚾 🥵 💀 🥙 🥌 🥌 🔞 🙀 🖍 🙀 🙀 🙀 🔭 🔞 🙀 🙀
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```

Folder config

Database.php

```
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                                                                                                                                                                                                       EXPLORER
                                                 ♠ Index.php
♠ peminjaman.php
♠ Database.php X
♠ buku.php
                                                                                                                                                                                                                          ▷ ∨ 📴 🗓 …
Ф
           ✓ config
                                                             <?php
class Database {</pre>
          Tatabase.php
                                                                 ass Database {
    private $host = 'localhost';
    private $db_name = 'perpustakaan';
    private $username = 'root';
    private $password = '';
    private $conn;
           > controllers
                                                      8
9
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12
          m Index.php
          m peminjaman.php
                                                                       $this->conn = null;
                                                                      $this->conn = null;
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 $e) {
    echo "Connection error: " . $e->getMessage();
}
                                                                       return $this->conn;
                                                  👭 Q. Search 😂 🔲 🦰 🛜 🥵 🥵 👰 🔞 🔞 💌 🔥 ^ 🖎 ENG 💝 (0) 🔩 12/24 PM 🖡 🥼
```

Folder controller

BukuController.php

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        ₩ Database.php
        ₩ BukuController.php
        X
        ₩ buku.php

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      ∨ config
                                     require once 'models/Buku.php':
       controllers
                                     class BukuController {
      ➡ BukuController.php
       PeminjamanController.php
                                        public function __construct($db) {
    $this->buku = new Buku($db);
      > views
                                        public function create() {
                                            m Index.php
                                                     'status' => $_POST['status']
                                                  if ($this->buku->create($data)) {
                                                     echo "Buku berhasil ditambahkan.";
header ("Location: buku.php");
                                                      exit();
                                                  } else {
    echo "Gagal menambahkan buku.";
                                                  echo "Semua field wajib diisi.";
                                         public function index() {
                                            return $this->buku->read();
    (208 PM → 1208 PM → 10/2/2024 ♣ 🖟
```

PeminjamanController.php

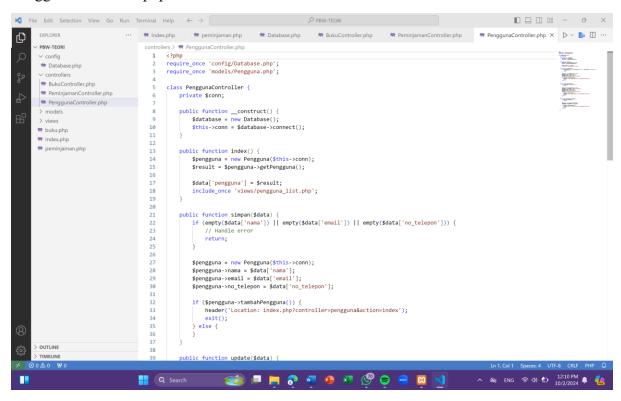
```
··· ♥ Index.php ♥ peminjaman.php ♥ Database.php ♥ BukuController.php ♥ PeminjamanController.php X ♥ buku.php ▷ ∨ 🐌 🗓 ···
      EXPLORER
Ф
      PBW-TEORI

∨ config

                                     require_once 'config/Database.php';

    Database.php
                                   require_once 'controllers/PeminjamanController.php';
                               .
5 class PeminjamanController
6 {
      RukuController.php
      PenggunaController.php
                                       public function __construct($db)
      > views
                                      $this->db = $db;
      m Index.php
                                       public function listPeminjam()
                                15
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19
                                          $penggunaQuery = "SELECT * FROM pengguna";
$stmt = $this->db->prepare($penggunaQuery);
$stmt->execute();
$penggunaList = $stmt->fetchAll(PD0::FETCH_ASSOC);
                                20
21
22
                                          return $penggunaList;
                                       public function storePeminjaman($id_user, $id_buku)
                                          $tanggal_peminjaman = date('Y-m-d');
$status_peminjaman = 'aktif';
                                          return $stmt->execute();
                              📘 Q Search 😇 🗏 🦰 🚱 🚾 🧀 🗷 🧐 🖨 🔞 🗸
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```

PenggunaController.php

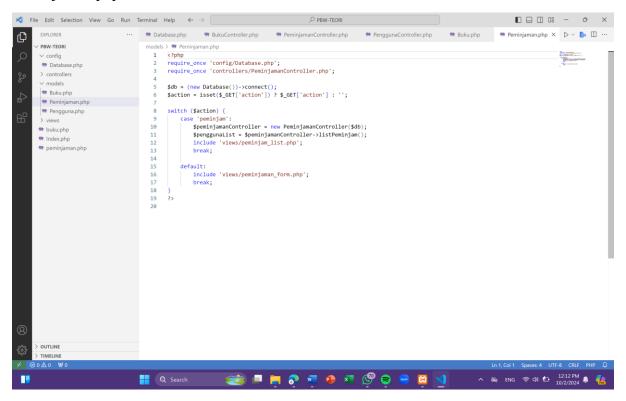


Folder models

Buku.php

```
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                                          ··· ıp •• Database,php •• Buku/Controller,php •• Peminjaman/Controller,php •• Pengguna/Controller,php •• Buku/Liphy × •• buku/Liphy •• D v •• III ···
         EXPLORER
Ф
                                                         k?php
class Buku {
          ∨ config
           Database.php
                                                               private $conn;
          > controllers
                                                               public function __construct($db) {
    $this->conn = $db;
         Ruku.php
          Pengguna.php
                                                   8
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                                                             public function create($data) {
   $query = "INSERT INTO buku (judul, penulis, penerbit, tahun_terbit, status) VALUES (:judul, :penulis, :penerbit,
         m buku.php
                                                                   $stmt = $this->conn->prepare($query);
         m Index.php
                                                                    $stmt->bindParam(':judul', $data['judul']);
$stmt->bindParam(':penulis', $data['penulis']);
$stmt->bindParam(':penerbit', $data['penerbit']);
$stmt->bindParam(':stmt_rebrit', $data['tahun_terbit']);
$stmt->bindParam(':status', $data['status']);
                                                                     try {
   if ($stmt->execute()) {
                                                                         return true;
} else {
throw new Exception("Gagal menyimpan data.");
                                                    21
22
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26
27
                                                                    } catch (Exception $e) {
   echo "Error: " . $e->getMessage();
   return false;
                                                               public function read() {
    $query = "SELECT * FROM buku";
    $stmt = $this->conn->prepare($query);
                                                                     $stmt->execute();
                                                                     return $stmt;
                                                👭 Q. Search 😂 🔲 🦰 🛜 🥵 🥵 👰 🔞 🔞 💌 🔥 ^ 🐚 ENG 💝 🕫 💆 12211 PM 🔩 🥼
```

Peminjaman.php



Pengguna.php

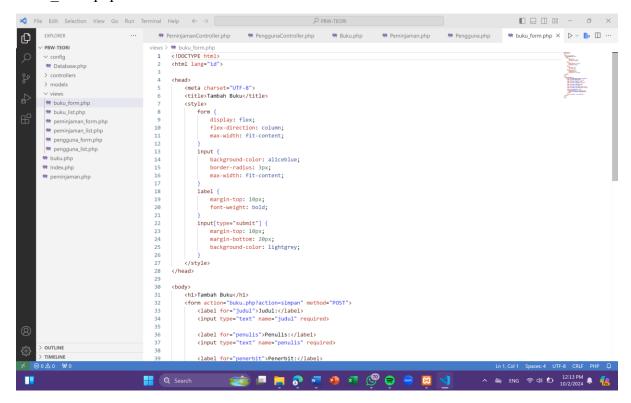
```
m{	iny M} File Edit Selection View Go Run Terminal Help m{\leftarrow} m{	iny} PBW-TEORI
                                                                                                                                                                                                                           □ □ □ □ · · · · ×

    ₱ BukuController.php
    ₱ PeninjamanController.php
    ₱ PenggunaController.php
    ₱ Buku.php
    ₱ Peninjaman.php
    ₱ Pengguna.php
    X
    D
    > Image: Controller.php

Ф
            EXPLORER
            PBW-TEORI
                                                                   k?php
class Pengguna {
            ∨ config
            Tatabase.php
                                                                          private $conn;
private $table = 'pengguna'; // Ganti dengan nama tabel Anda
            > controllers
            Ruku.php
                                                                         public $id_pengguna;
public $nama;
public $email;
public $no_telepon;
            Peminjaman.php
            Pengguna.php
                                                             10
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14
                                                                         public function __construct($db) {
    $this->conn = $db;
           m Index.php
                                                                         public function getPengguna() {
    $query = "SELECT * FROM " . $this->table;
    $$tmt = $this->conn->prepare($query);
    $$tmt->sexucute();
    return $stmt->fetchAll(PDO::FETCH_ASSOC);
                                                             15
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                                                             20
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27
                                                                          public function tambahPengguna() {
    $query = "INSERT INTO " . $this->table . " (nama, email, no_telepon) VALUES (:nama, :email, :no_telepon)";
    $stmt = $this->conn->prepare($query);
                                                                               // Bind data
$stmt->bindParam(':nama', $this->nama);
$stmt->bindParam(':email', $this->email);
$stmt->bindParam(':no_telepon', $this->no_telepon);
                                                                               return $stmt->execute();
                                                                          public function editPengguna() {
    $query = "UPDATE " . $this->table . " SET nama = :nama, email = :email, no_telepon = :no_telepon WHERE id_penggun.
    $tmt = $this->conn->prepare($query);
          > OUTLINE
                                                                                // Bind data
                                                                                $stmt->bindParam(':id_pengguna', $this->id_pengguna);
                                                                                                                                                                                                              へ 製 ENG 奈 ゆ む 12:12 PM 및 10/2/2024 및 4 4/10
                                                        Q Search
```

Folder Views

Buku form.php

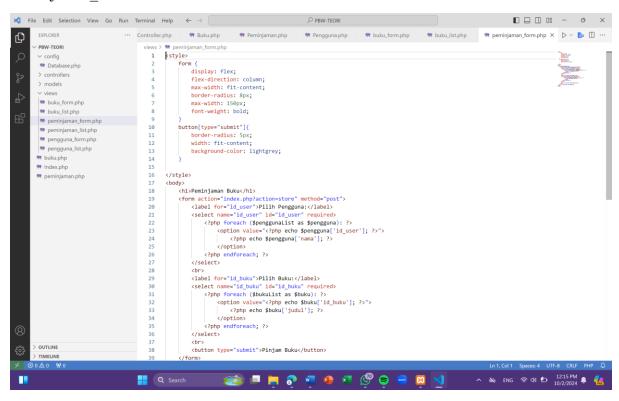


Buku list.php

```
Ф
       EXPLORER
       PBW-TEORI
       ∨ config
       Tatabase.php
                                          <html lang="id">
                                         <head>
       > controllers
                                             <meta charset="UTF-8":</pre>
       > models
                                             <title>Daftar Buku</title>
                                             <style> table {
       m buku form.php
                                                   width: 50%;
border-collapse: collapse;
background-color: #E6E6FA;
box-shadow: 1px 1px 3px #000;
       m buku_list.php
       m peminjaman_form.php
                                     10
11
12
       m pengguna form.php
                                                   border: 1px solid #000;
box-shadow: 1px 1px 3px #000;
padding: 8px;
text-align: left;
       m buku.php
      ndex.php
                                     15
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19
       e peminjaman.php
                                                   background-color: #D3D3D3;
                                     21
22
23
24
25
26
27
                                                }
h2 {
font-size: larger;
font-family: Cambria, Cochin, Georgia, Times, 'Times New Roman', serif;
margin-top: 10px;
margin-bottom: 3px;
                                     28
29
30
                                             </style>
                                          </heads

<
                                                ID Buku
                                                    Judul
                                                    Penulis
      > OUTLINE
                                                    Penerbit
                                                    Tahun Terbit
                                  👭 Q Search 🥰 🔲 🦰 🌎 🖷 🐧 🗷 💖 😭 🚍 🔞 刘
```

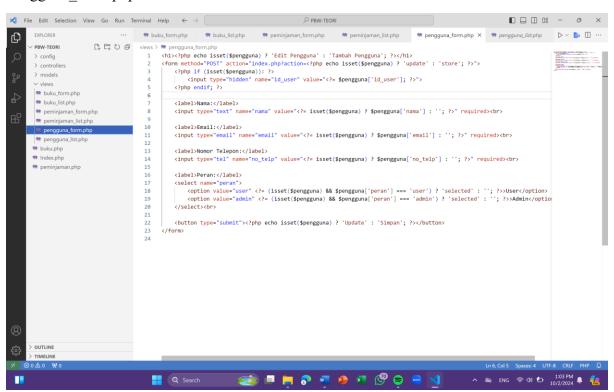
Peminjaman form



Peminjaman_list.php

```
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                                                                                                     Ф
     EXPLORER
     PBW-TEORI
      ∨ config
                                <html lang="id">
      Tatabase.php
                                <head>
     > controllers
                                  <meta charset="UTF-8">
     > models
                                  <title>Daftar Peminjaman</title>
                                  <style> table {
     m buku form.php
     m buku_list.php
                                       width: 100%;
border-collapse: collapse;
     m peminiaman form.php
                                    th, td {
     m pengguna_form.php
                                       padding: 8px;
text-align: left;
border: 1px solid #ddd;
     w buku.php
     ndex.php
                            15
16
17
18
19
     e peminjaman.php
                                   </style>
                                </head>
                            21
22
23
24
25
26
27
                               <body>
                                  <h1>Daftar Peminjaman Buku</h1>
                                        ID Peminjaman
                                          Nama Pengguna
                                          Judul Buku
    > OUTLINE
                                          Tanggal Peminjaman
                                          📻 🗖 🙀 🔊 🚾 😝 🗷 🧐 🧁 🖼 🔯
                                                                                               へ 🖎 ENG 零 ゆ) 🗗 12:15 PM 👢 🦺
                          Q Search
```

Pengguna form.php



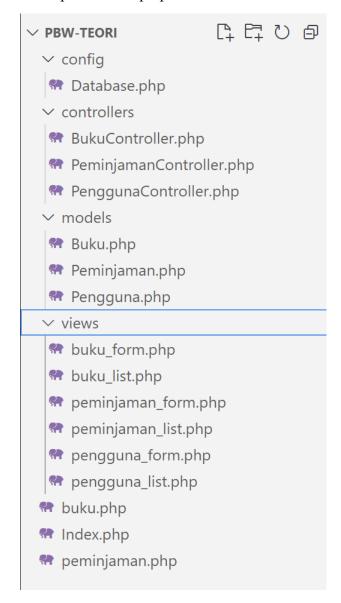
Pengguna_list.php

```
X File Edit Selection View Go Run Terminal Help \leftrightarrow \nearrow PBW-TEORI
                                                                                                                                                                  🖚 buku_form.php 🐧 buku_list.php 🧠 peminjaman_form.php 🐧 peminjaman_list.php 🐧 pengguna_form.php 🐧 pengguna_list.php X D V 🐌 🗓 ...
Ф
        EXPLORER
        PBW-TEORI
                                                 > mpengguna_list.php
<!DOCTYPE html>
<html lang="id">
        > config
        > controllers
> models
                                                  <head>
                                                      <meta charset="UTF-8">
                                                      <title>Daftar Pengguna</title>
                                                       <style> table {
        m buku list.php
                                                              width: 50%;
border-collapse: collapse;
background-color: #E6E6FA;
box-shadow: 1px 1px 3px #000;
        m peminiaman list.php
        m pengguna list.php
                                                              td {
border: 1px solid #000;
box-shadow: 1px 1px 3px #000;
padding: 8px;
text-align: left;
        m Index.php
                                                              background-color: #D3D3D3;
                                                          }
h2 {
font-size: larger;
font-family: Cambria, Cochin, Georgia, Times, 'Times New Roman', serif;
margin-top: 10px;
margin-bottom: 3px;
                                                              display: flex;
flex-direction: column;
                                                           input {
  background-color: aliceblue;
  border-radius: 3px;
  max-width: fit-content;
                                                           label {
                                                               margin-top: 10px;
                                                                     Q Search
```

Contoh PDO pada kode Buku.php

```
class Buku {
    private $conn;
    public function __construct($db) {
       $this->conn = $db;
   public funct
    $query = Refers to the current object
$this
                                         , penulis, penerbit, tahun_terbit, status) VALUES (:judul, :penulis, :penerbit,
        $stmt = $this->conn->prepare($query);
       $stmt->bindParam(':judul', $data['judul']);
        $stmt->bindParam(':penulis', $data['penulis']);
        $stmt->bindParam(':penerbit', $data['penerbit']);
        $stmt->bindParam(':tahun_terbit', $data['tahun_terbit']);
        $stmt->bindParam(':status', $data['status']);
        try {
            if ($stmt->execute()) {
                return true;
            } else {
               throw new Exception("Gagal menyimpan data.");
        } catch (Exception $e) {
            echo "Error: " . $e->getMessage();
            return false;
```

MVC pada sistem perpustakaan



Config digunakan untuk mengisi program untuk database

Controllers digunakan untuk memanfaatkan objek model Buku, Peminjaman, Pengguna mendapatkan data dan menentukan view yang akan ditampilkan.

Views digunakan untuk menampilkan list yang sudah diinput dalam database.

Models digunakan untuk berinteraksi dengan database yang sudah dibuat.

Link Github: SHAFIRADESIKAAZ-ZAHRA/PBW Perpustakaan (github.com)