

## Dokumentasi Uji Kompetensi

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Berikut ini adalah dokumentasi kode program yang telah saya buat:


### 1. Struktur Folder:

This PC > Local Disk (C:) > xampp > htdocs > hfzrmd			
	Name	Date modified	Type
✦	assets	12/12/2022 10:28	File folder
✦	class	12/12/2022 10:34	File folder
✦	docs	12/12/2022 12:06	File folder
✦	handler	12/12/2022 11:58	File folder
✦	view	12/12/2022 11:54	File folder

#### Keterangan:































- assets: folder untuk menyimpan file css, js, image, dll
- class: folder untuk menyimpan seluruh class
- docs: folder untuk menyimpan file dokumentasi
- handler: folder untuk menyimpan file handler yang akan digunakan disistem
- view: folder untuk menyimpan file halaman

### Detail Struktur Folder:

 C:\xampp\htdocs\hfzrmd\handler\baran

File Edit Selection Find View Goto

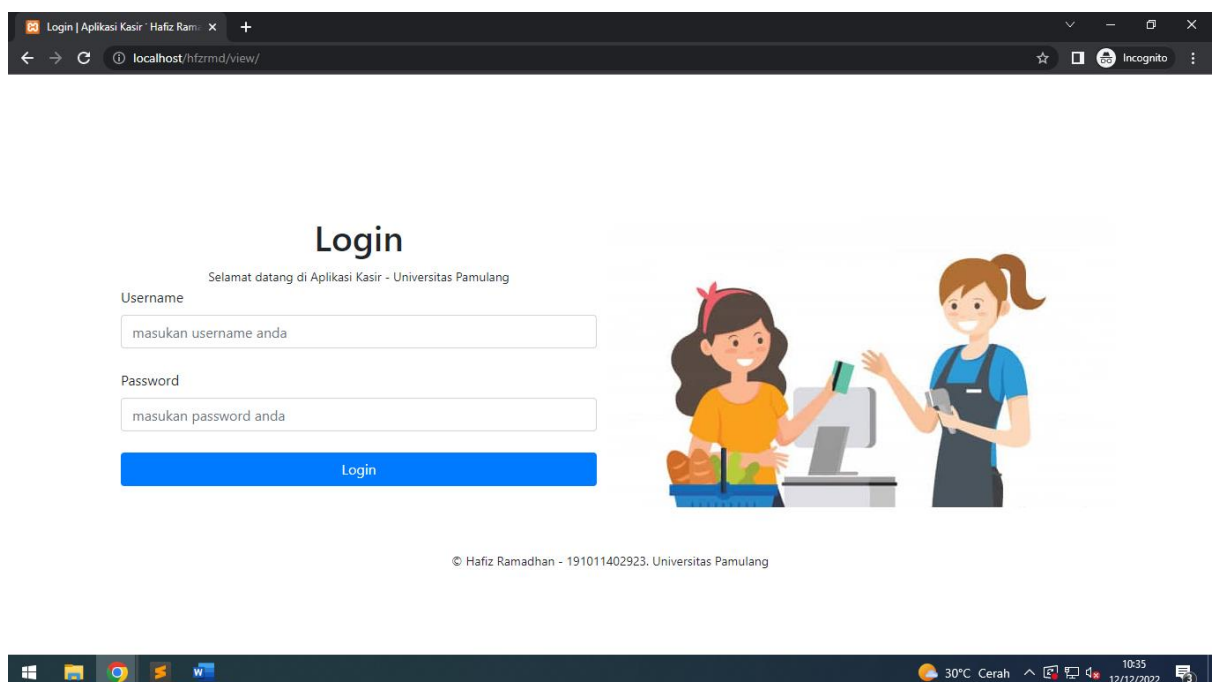
#### FOLDERS

- ▼  hfzrmd
  - ▼  assets
    -  kasir.jpg
    -  login.webp
  - ▼  class
    -  barang.php
    -  db.php
    -  kasir.php
    -  login.php
    -  supplier.php
    -  transaksi.php
  - ▶  docs
  - ▼  handler
    - ▶  barang
    - ▶  kasir
    - ▶  supplier
    - ▼  transaksi
      -  create.php
      -  delete.php
      -  read.php
      -  update.php
    -  login.php
    -  logout.php
  - ▼  view
    - ▼  dashboard
      -  barang.php
      -  index.php
      -  kasir.php
      -  supplier.php
      -  index.php

## 2. Koneksi Basis Data

```
db.php
1 <?php
2
3 class Database
4 {
5     private $host = "localhost"; # host basis data
6     private $user = "root"; # username basis data
7     private $pwd = ""; # password basis data
8     private $name = "hafizramadhan_minimarket"; # nama basis data
9     public $mysqli;
10
11     # buat fungsi koneksi ke basis data di __construct
12     # fungsi ini akan otomatis dijalankan, ketika object dari class Database dibuat / dipanggil
13     function __construct()
14     {
15         $this->mysqli = new mysqli($this->host, $this->user, $this->pwd, $this->name);
16         if ($this->mysqli->connect_errno) {
17             echo "Failed to connect to MySQL: " . $this->mysqli->connect_error;
18             exit();
19         }
20         return $this->mysqli;
21     }
22 }
23
24 ?>
```

## 3. Halaman Login



### Keterangan:

Pada halaman login ini saya menggunakan library:

- bootstrap versi 4.6.2 dengan CDN (Content Delivery Network)
- jquery versi 3.5.1 dengan CDN (Content Delivery Network)

#### 4. Membuat data admin manual

The screenshot shows the Bcrypt-Generator.com website. The 'Encrypt' section on the left has a text input field containing 'admin', a 'Rounds' spinner set to 12, and an 'Encrypt' button. Above it is a green box displaying a long Bcrypt hash: '\$2a\$12\$8WGq/Dd50cItr6/pGT1V6O/q8xDen5pnKWIKQcWTN19zj8NKIR8fe'. The 'Decrypt' section on the right has two input fields: 'Hash to check' and 'String to check against', with a 'Check' button.

#### Keterangan:

Disini saya menggunakan tools online dari <https://bcrypt-generator.com/> untuk membuat password yang terenkripsi dengan BCRYPT.

#### 5. Melakukan proses login

##### Frontend:

```
29 <body>
30 <div class="container" id="box">
31 <div class="row">
32 <div class="col-sm-6">
33 <form id="form-login" method="post">
34 <center>
35 <h1>Login</h1>
36 <small>Selamat datang di Aplikasi Kasir - Universitas Pamulang</small>
37 </center>
38 <div class="form-outline mb-4">
39 <label class="form-label" for="username">Username</label>
40 <input type="text" name="username" id="username" class="form-control" placeholder="masukan username anda" required minlength="4" maxlength="25"
41 pattern="[a-zA-Z0-9]{4,25}">
42 </div>
43 <div class="form-outline mb-4">
44 <label class="form-label" for="password">Password</label>
45 <input type="password" name="password" id="password" class="form-control" placeholder="masukan password anda" required minlength="4" maxlength="25"
46 />
47 </div>
48 <button type="submit" class="btn btn-primary btn-block mb-4">Login</button>
49 </form>
50 </div>
51 <div class="col-sm-6" id="background">
52 </div>
53 </div>
54 <div class="col-sm-6" id="background">
55 </div>
56 </div>
57 <div class="col-sm-6" id="background">
58 </div>
59 <div class="col-sm-6" id="background">
60 </div>
61 <div class="col-sm-6" id="background">
62 </div>
63 <div class="col-sm-6" id="background">
64 </div>
65 <div class="col-sm-6" id="background">
66 </div>
67 <div class="col-sm-6" id="background">
68 </div>
69 <div class="col-sm-6" id="background">
70 </div>
71 </div>
```

##### Backend:

```

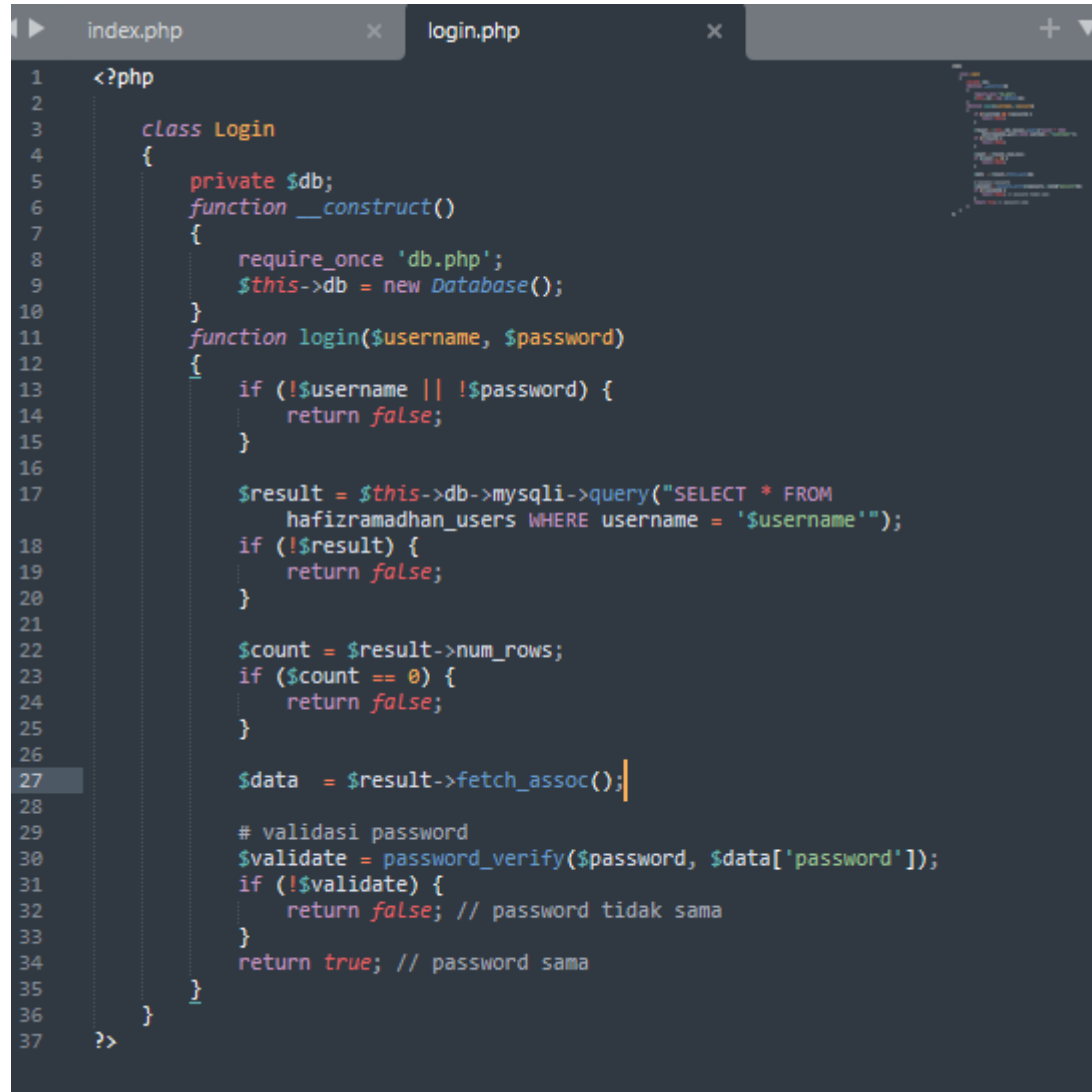
login.php
1  <?php
2
3  if ($_SERVER['REQUEST_METHOD'] === "POST") {
4      require_once '../class/login.php'; # memanggil class login
5      $process = new Login(); # membuat object baru dari class login
6
7      # menangkap kedua parameter, yaitu username & password
8      $username = $_POST['username'];
9      $password = $_POST['password'];
10
11     # parsing parameter kedalam fungsi login (dari class login)
12     $login = $process->login($username, $password);
13
14     if (!$login) {
15         # jika $login = false (gagal), tampilkan pesan
16         echo json_encode([
17             "status" => false,
18             "msg"     => "username atau password tidak valid"
19         ]);
20         return;
21     }
22
23     # jika $login = true (berhasil), set session
24     session_start();
25     $_SESSION['is_login'] = true;
26     $_SESSION['login_at'] = date('d-m-Y h:i:s');
27     echo json_encode([
28         "status" => true,
29     ]);
30     return;
31 }else{
32     http_response_code(405); # method tidak diizinkan
33     return;
34 }
35
36 ?>

```

#### Keterangan:

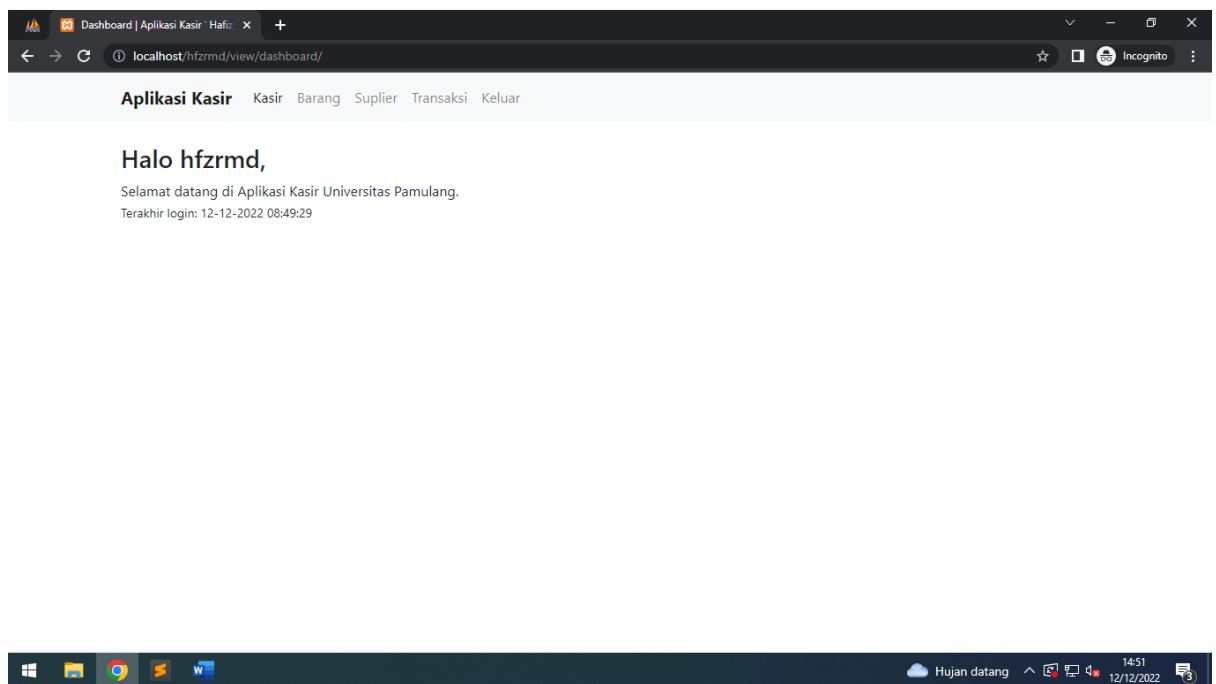
- Frontend:  
Saya menggunakan Library:
  1. Bootstrap
  2. JQUERY
  3. Datatable
- Backend:  
Saya membuat validasi, hanya method POST saja yang diizinkan untuk mengeksekusi proses login.
- Class Login  
Saya membuat class login sebagai controller atau core untuk memeriksa query sql, dengan kembalian Boolean (true or false)

Class Login:

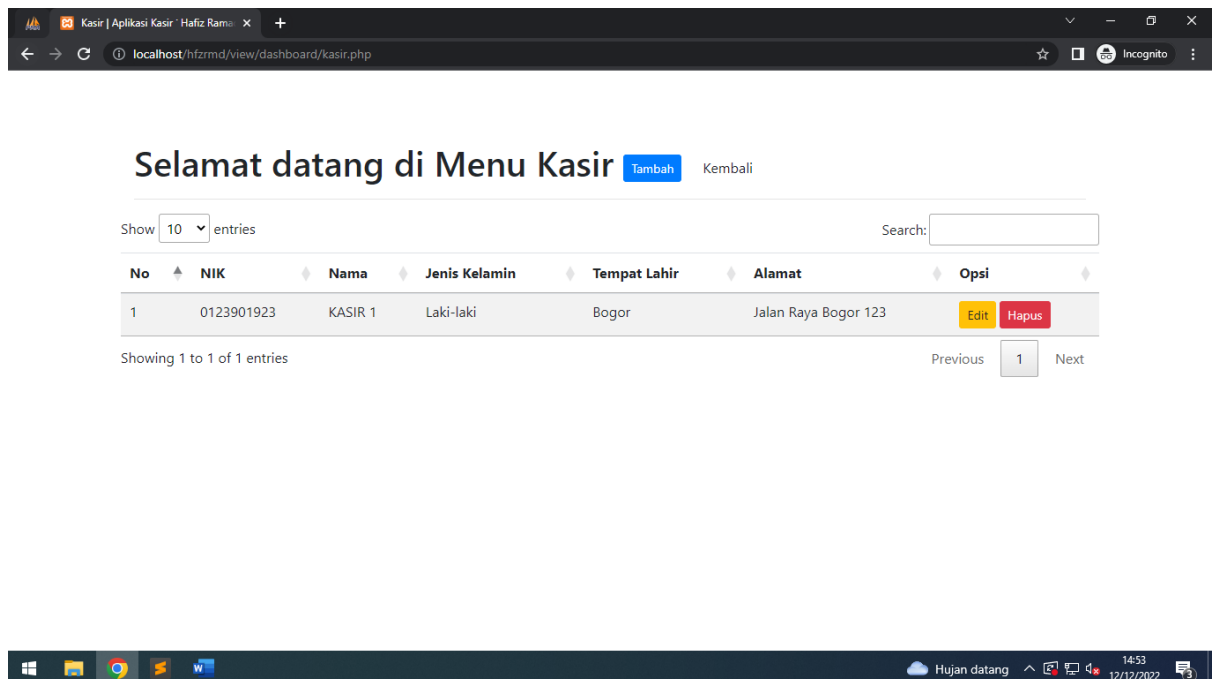


```
1  <?php
2
3  class Login
4  {
5      private $db;
6      function __construct()
7      {
8          require_once 'db.php';
9          $this->db = new Database();
10     }
11     function login($username, $password)
12     {
13         if (!$username || !$password) {
14             return false;
15         }
16
17         $result = $this->db->mysqli->query("SELECT * FROM
18             hafizramadhan_users WHERE username = '$username'");
19         if (!$result) {
20             return false;
21         }
22
23         $count = $result->num_rows;
24         if ($count == 0) {
25             return false;
26         }
27         $data = $result->fetch_assoc();
28
29         # validasi password
30         $validate = password_verify($password, $data['password']);
31         if (!$validate) {
32             return false; // password tidak sama
33         }
34         return true; // password sama
35     }
36 }
37 ?>
```

## 6. Halaman Dashboard



## 7. Halaman Kasir



## 8. Form Kasir

The screenshot shows a web browser window with the URL `localhost/hfzrmd/view/dashboard/kasir.php`. A modal titled "Form Kasir" is open, containing the following fields:

- NIK:
- Nama Kasir:
- Jenis Kelamin:
- Tempat Lahir:
- Alamat:

A blue "Submit" button is located at the bottom of the modal. In the background, a dashboard is visible with a "Selamat datang" message, a "Show 10 entries" dropdown, and a table with one entry:

No	NIK	Nama
1	0123901923	KASIR 1

Showing 1 to 1 of 1 entries

## 9. Halaman Barang

The screenshot shows a web browser window with the URL `localhost/hfzrmd/view/dashboard/barang.php`. The page title is "Selamat datang di Menu Barang". There is a "Tambah" button and a "Kembali" link. Below the header, there is a "Show 10 entries" dropdown and a "Search:" input field. The main content is a table with the following columns: No, Kode Suplier, Kode Barang, Nama Barang, Harga Jual, Harga Beli, Stok, Satuan, and Opsi. The table contains one entry:

No	Kode Suplier	Kode Barang	Nama Barang	Harga Jual	Harga Beli	Stok	Satuan	Opsi
1	0129309123	106396db51683d8	Barang Dua	10000	20000	190	kilogram	Edit Hapus

Showing 1 to 1 of 1 entries



## 10. Form Barang

The screenshot shows a web application interface. In the background, there is a dashboard with a 'Selamat datang' (Welcome) message, a table with one entry, and a search bar. The table has columns for 'No', 'Kode Suplier', and 'Kode Barang'. The entry has values '1', '0129309123', and '106396db5'. Below the table, it says 'Showing 1 to 1 of 1 entries'. A modal titled 'Form Barang' is open in the foreground. The modal contains the following fields:

- Kode Suplier: Indomaret - 0129309123 (dropdown)
- Kode Barang: 106396de2fcf238 (text input)
- Nama Barang: masukan nama barang (text input)
- Harga Jual: masukan harga jual barang (text input)
- Harga Beli: masukan harga beli barang (text input)
- Stok: masukan stok barang (text input)
- Satuan: Pilih Satuan Barang (dropdown)

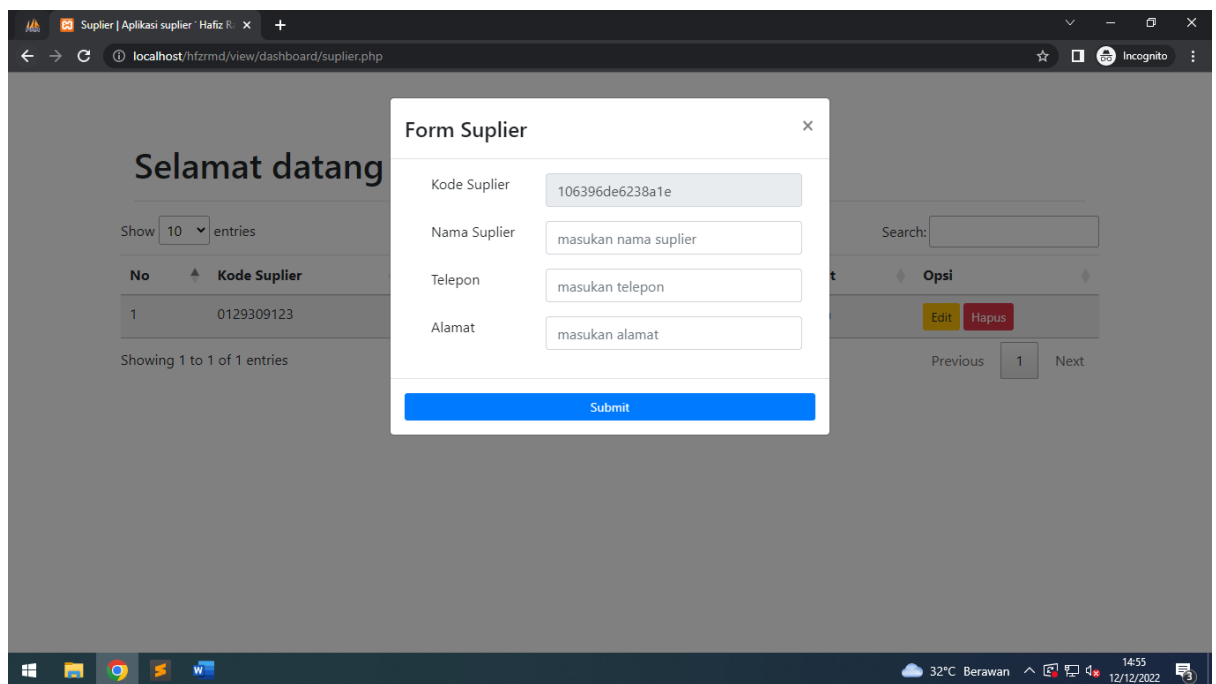
A blue 'Submit' button is at the bottom of the modal. The browser's address bar shows 'localhost/hfzrmd/view/dashboard/barang.php'.

## 11. Halaman Suplier

The screenshot shows a web application interface for the 'Halaman Suplier' (Supplier Page). The page has a 'Selamat datang di Menu Suplier' (Welcome to the Supplier Menu) message, a 'Tambah' (Add) button, and a 'Kembali' (Back) button. Below this is a table with one entry, a search bar, and pagination controls. The table has columns for 'No', 'Kode Suplier', 'Nama Suplier', 'Telepon', 'Alamat', and 'Ops'. The entry has values '1', '0129309123', 'Indomaret', '021-123-456', 'Jakarta', and 'Edit Hapus'. Below the table, it says 'Showing 1 to 1 of 1 entries'. The browser's address bar shows 'localhost/hfzrmd/view/dashboard/supplier.php'.

No	Kode Suplier	Nama Suplier	Telepon	Alamat	Ops
1	0129309123	Indomaret	021-123-456	Jakarta	Edit Hapus

## 12. Form Suplier



## 13. Source Code Barang

```
# pengecekan apakah harga jual kurang dari harga beli
?
if ($hargajual < $hargabeli) {
    header('Content-Type: application/json;
        charset=utf-8');
    echo json_encode([
        "status"    => false,
        "msg"       => "harga jual tidak boleh kurang
                        dari harga beli"
    ], JSON_PRETTY_PRINT);
    return;
}
```

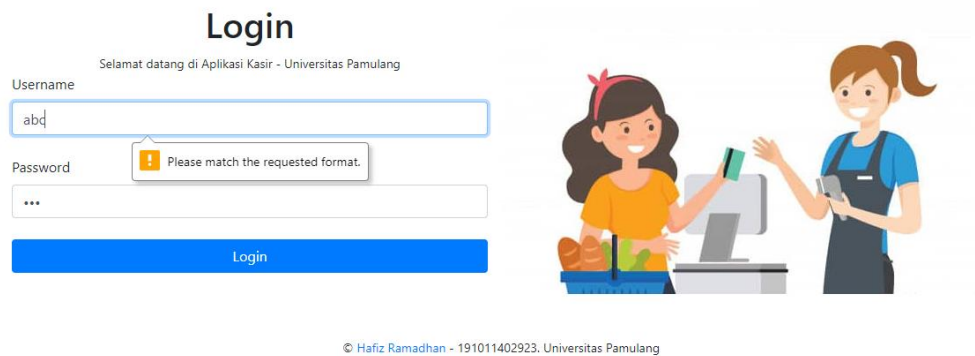
### Keterangan:

- Pada bagian ini terdapat pengecekan bahwa, harga jual tidak boleh kurang dari harga beli.

## Pengujian

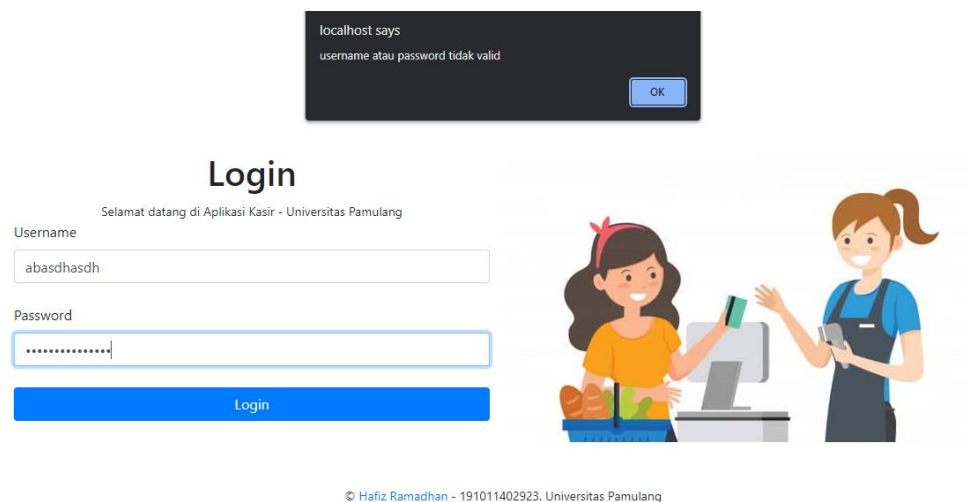
### 1. Pengujian Form Login:

- Karakter kurang dari 4



Jika username / password kurang dari 4, maka form tidak mau disubmit

- Jika username atau password salah



Jika username / password salah, maka akan muncul notifikasi bahwa username atau password salah.

- Jika username dan password benar

Halo hfzrmd,

Selamat datang di Aplikasi Kasir Universitas Pamulang.  
Terakhir login: 12-12-2022 09:03:42

Maka akan diarahkan kehalaman dashboard

## 2. Pengujian Harga Jual – Harga Beli

The screenshot shows a web application interface with a modal form for adding or editing a product. The modal contains the following fields:

- Kode Suplier: Indomaret - 0129309123
- Kode Barang: 106396e1d694738
- Nama Barang: Barang 2
- Harga Jual: 1000
- Harga Beli: 2000
- Stok: 10
- Satuan: Kilogram (kg)

A dark error message box is displayed at the top of the modal, stating: "localhost says harga jual tidak boleh kurang dari harga beli" (price cannot be less than purchase price). The background shows a dashboard with a table of products and a search bar.

Jika kondisi tidak terpenuhi, maka akan muncul popup bahwa harga jual tidak boleh kurang dari harga beli (harus lebih mahal)