



Validation

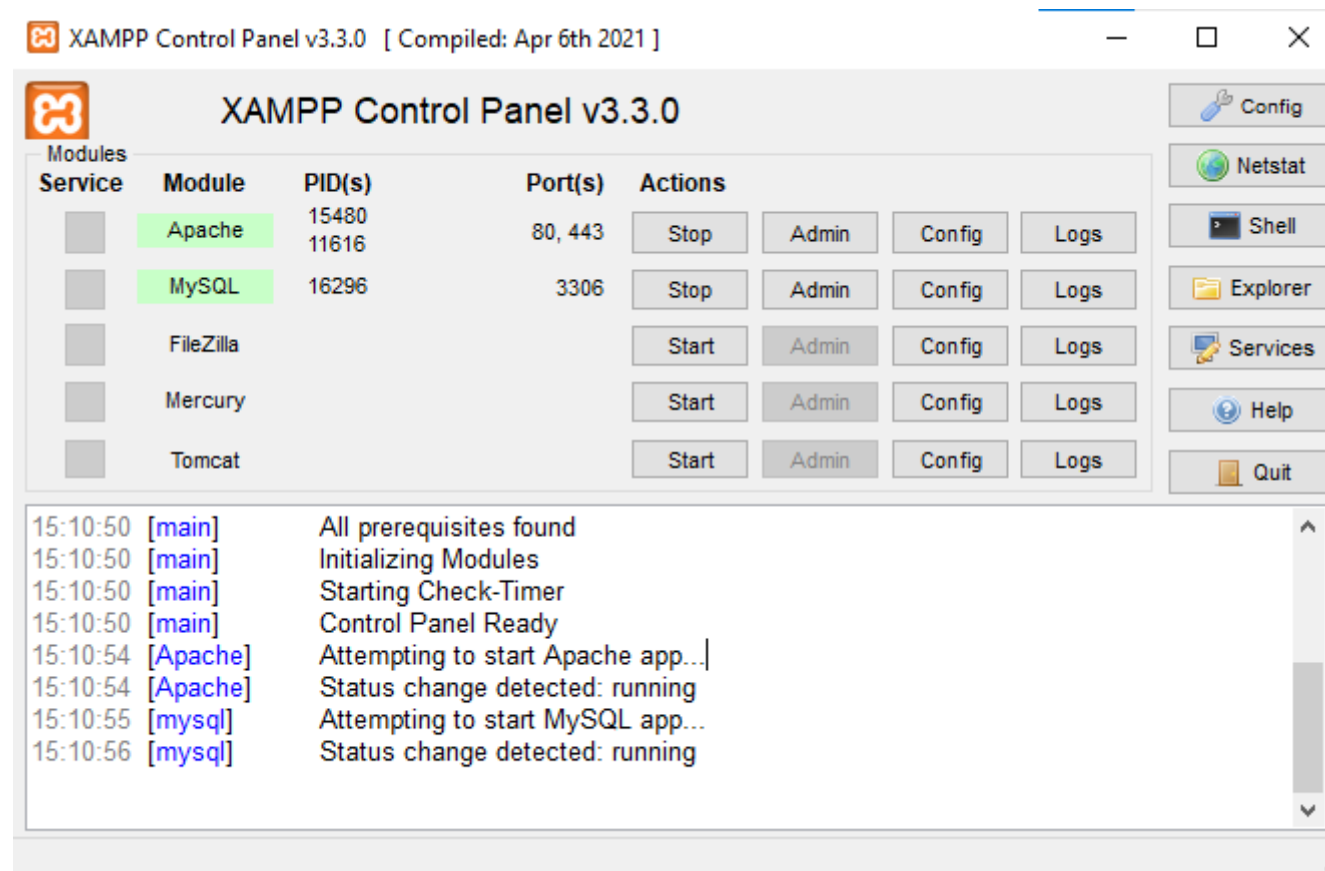
Validation

Validasi di PHP adalah langkah penting untuk memastikan bahwa data yang diterima dari pengguna sesuai dengan aturan yang telah ditentukan sebelum digunakan lebih lanjut dalam aplikasi. Proses ini bertujuan untuk menjaga integritas data, mencegah kesalahan sistem, dan melindungi aplikasi dari ancaman keamanan seperti serangan SQL Injection, Cross-Site Scripting (XSS), atau manipulasi data lainnya. Dengan menerapkan validasi yang baik, pengembang dapat meminimalkan risiko dan memastikan bahwa aplikasi berjalan dengan aman dan andal.

Konfigurasi Awal

Untuk menghubungkan PHP dan MySQL silahkan ikuti Langkah dibawah:

- Silahkan aktifkan XAMPP atau Laragon



Validation

Sebelum dilakukan validasi, jika data yang dikirimkan kosong (atau tidak sesuai aturan) dan langsung diteruskan ke database, data tersebut tetap akan tersimpan di database.

Kondisi ini bisa menyebabkan masalah serius, seperti data yang tidak konsisten, error pada operasi yang melibatkan data tersebut di masa mendatang, atau bahkan potensi kerentanan terhadap serangan keamanan.

Validation

Contoh input form yang kosong

Kembali

Nama Produk

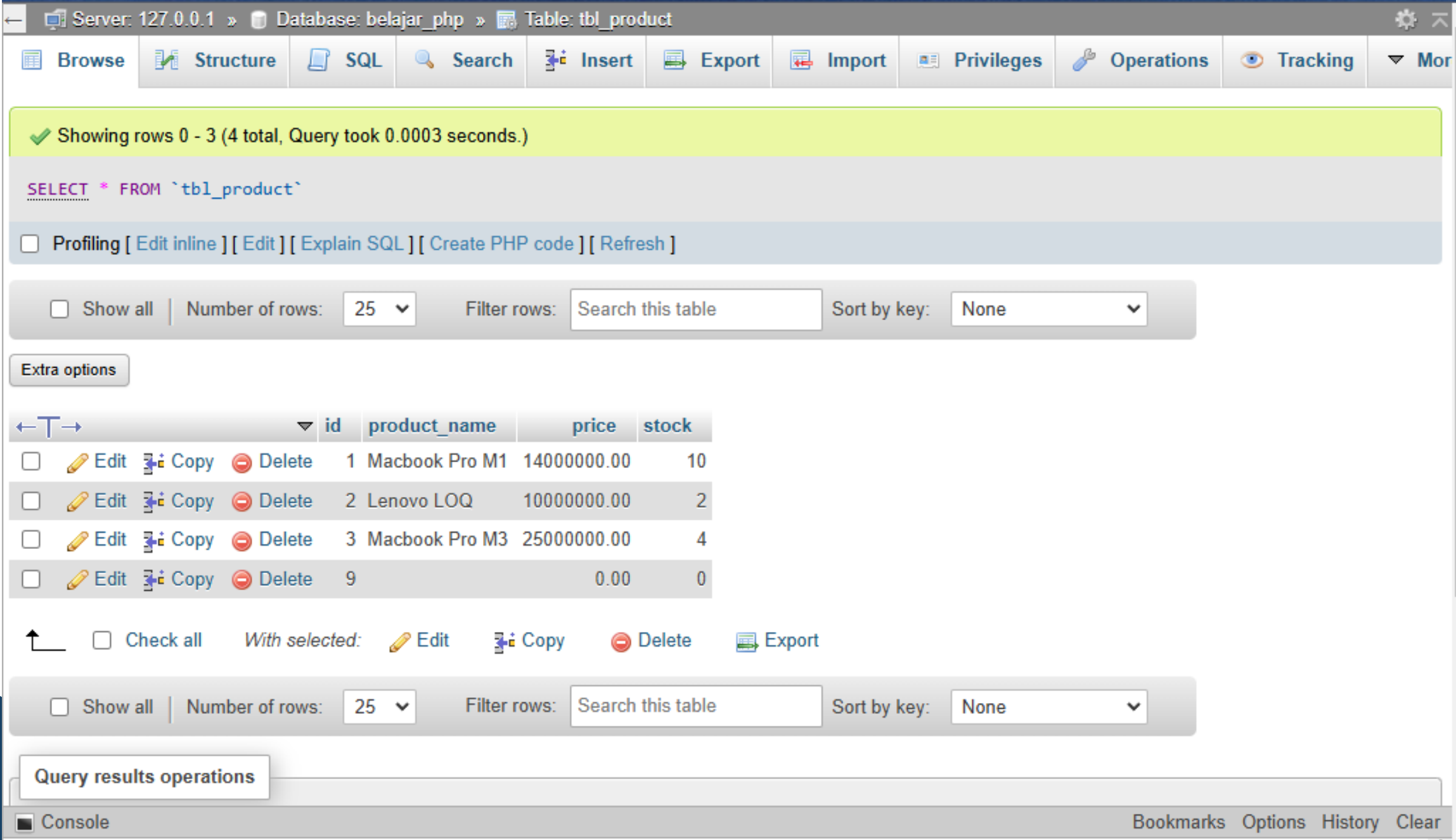
Harga

Stok

Submit

Validation

Jika tombol submit ditekan, maka data kosong akan tersimpan di database.

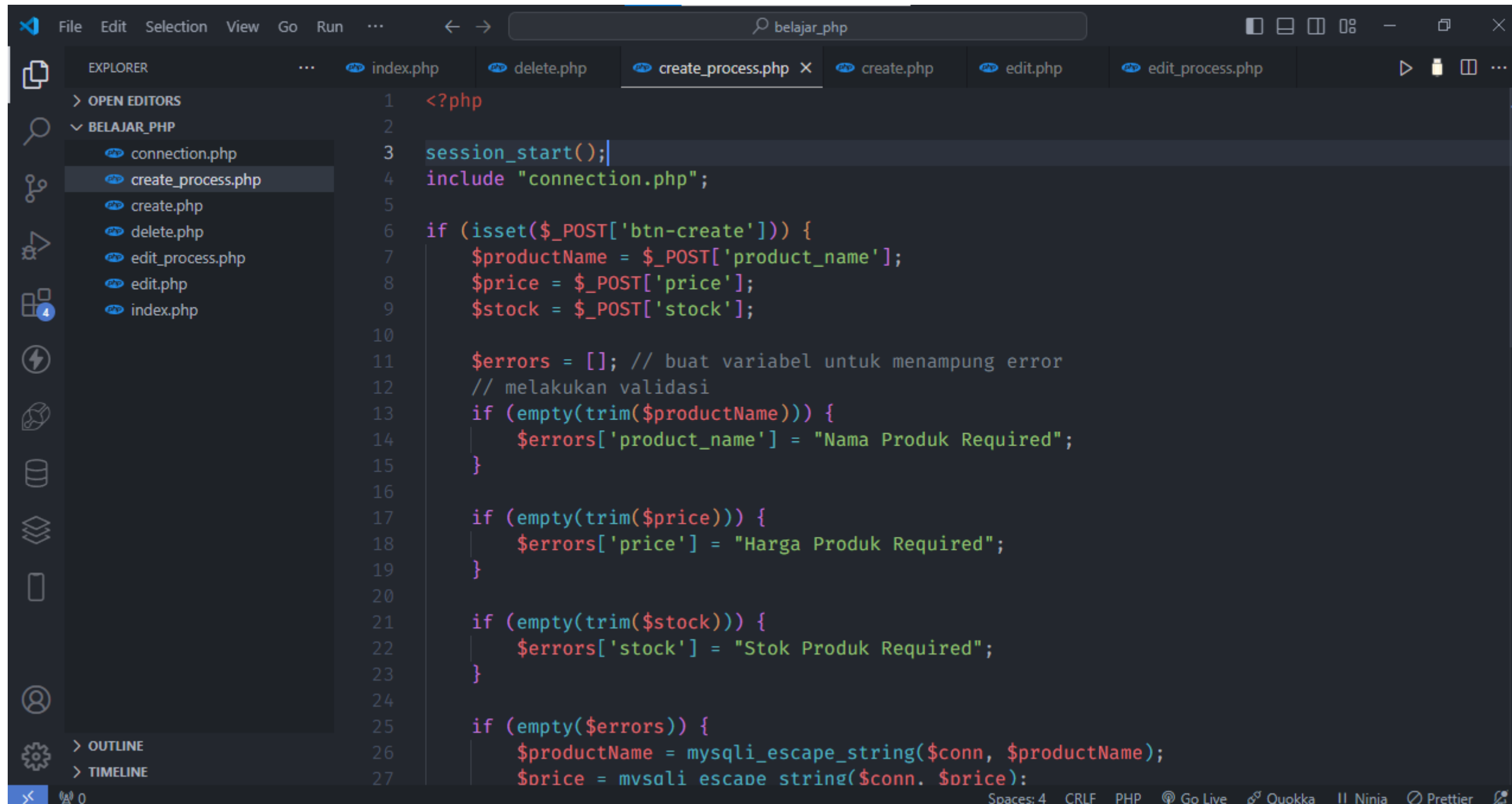


The screenshot displays a web-based database management interface. The top navigation bar includes tabs for Browse, Structure, SQL, Search, Insert, Export, Import, Privileges, Operations, Tracking, and More. The main content area shows a successful query execution: "Showing rows 0 - 3 (4 total, Query took 0.0003 seconds.)". The SQL query entered is "SELECT * FROM `tbl_product`". Below the query, there are options for Profiling, Edit inline, Edit, Explain SQL, Create PHP code, and Refresh. The results are displayed in a table with columns: id, product_name, price, and stock. The table contains four rows of data. Below the table, there are options for Show all, Number of rows (25), Filter rows (Search this table), and Sort by key (None). The bottom section shows the Query results operations and a Console area.

	id	product_name	price	stock
<input type="checkbox"/> Edit Copy Delete	1	Macbook Pro M1	14000000.00	10
<input type="checkbox"/> Edit Copy Delete	2	Lenovo LOQ	10000000.00	2
<input type="checkbox"/> Edit Copy Delete	3	Macbook Pro M3	25000000.00	4
<input type="checkbox"/> Edit Copy Delete	9		0.00	0

Validation

Ubah code yang terdapat di file create_process menjadi seperti dibawah:

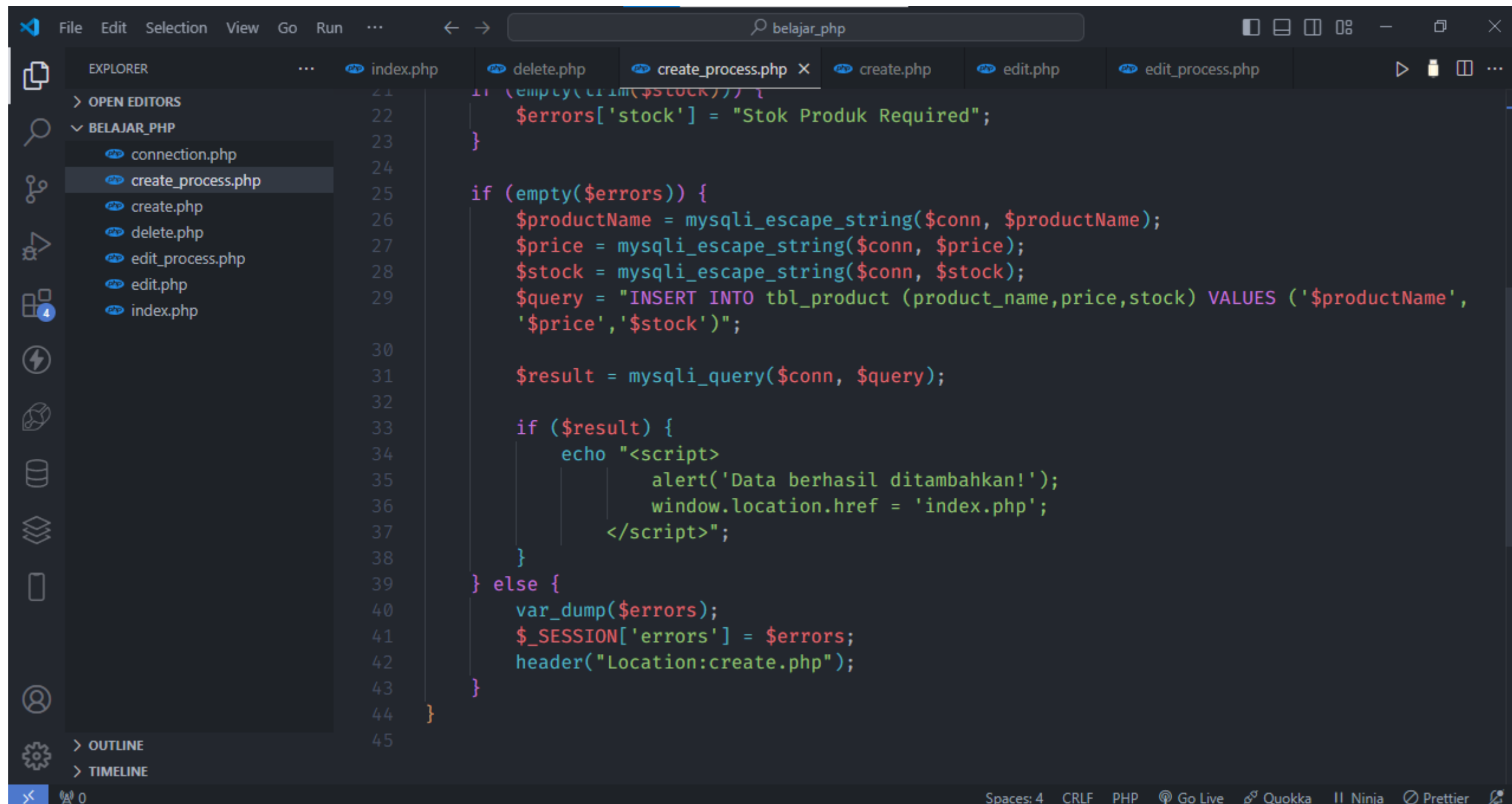


```
1 <?php
2
3 session_start();
4 include "connection.php";
5
6 if (isset($_POST['btn-create'])) {
7     $productName = $_POST['product_name'];
8     $price = $_POST['price'];
9     $stock = $_POST['stock'];
10
11     $errors = []; // buat variabel untuk menampung error
12     // melakukan validasi
13     if (empty(trim($productName))) {
14         $errors['product_name'] = "Nama Produk Required";
15     }
16
17     if (empty(trim($price))) {
18         $errors['price'] = "Harga Produk Required";
19     }
20
21     if (empty(trim($stock))) {
22         $errors['stock'] = "Stok Produk Required";
23     }
24
25     if (empty($errors)) {
26         $productName = mysqli_escape_string($conn, $productName);
27         $price = mysqli_escape_string($conn, $price);
```

The screenshot shows a code editor with a dark theme. The Explorer sidebar on the left shows a project named 'BELAJAR_PHP' with files: connection.php, create_process.php (selected), create.php, delete.php, edit_process.php, edit.php, and index.php. The main editor area displays the PHP code for create_process.php, which includes session management, database connection, and validation logic for product creation. The code checks for empty product name, price, and stock, and sets error messages if any are missing. The status bar at the bottom indicates 'Spaces: 4', 'CRLF', 'PHP', and various extensions like 'Go Live', 'Quokka', 'Ninja', and 'Prettier'.

Validation

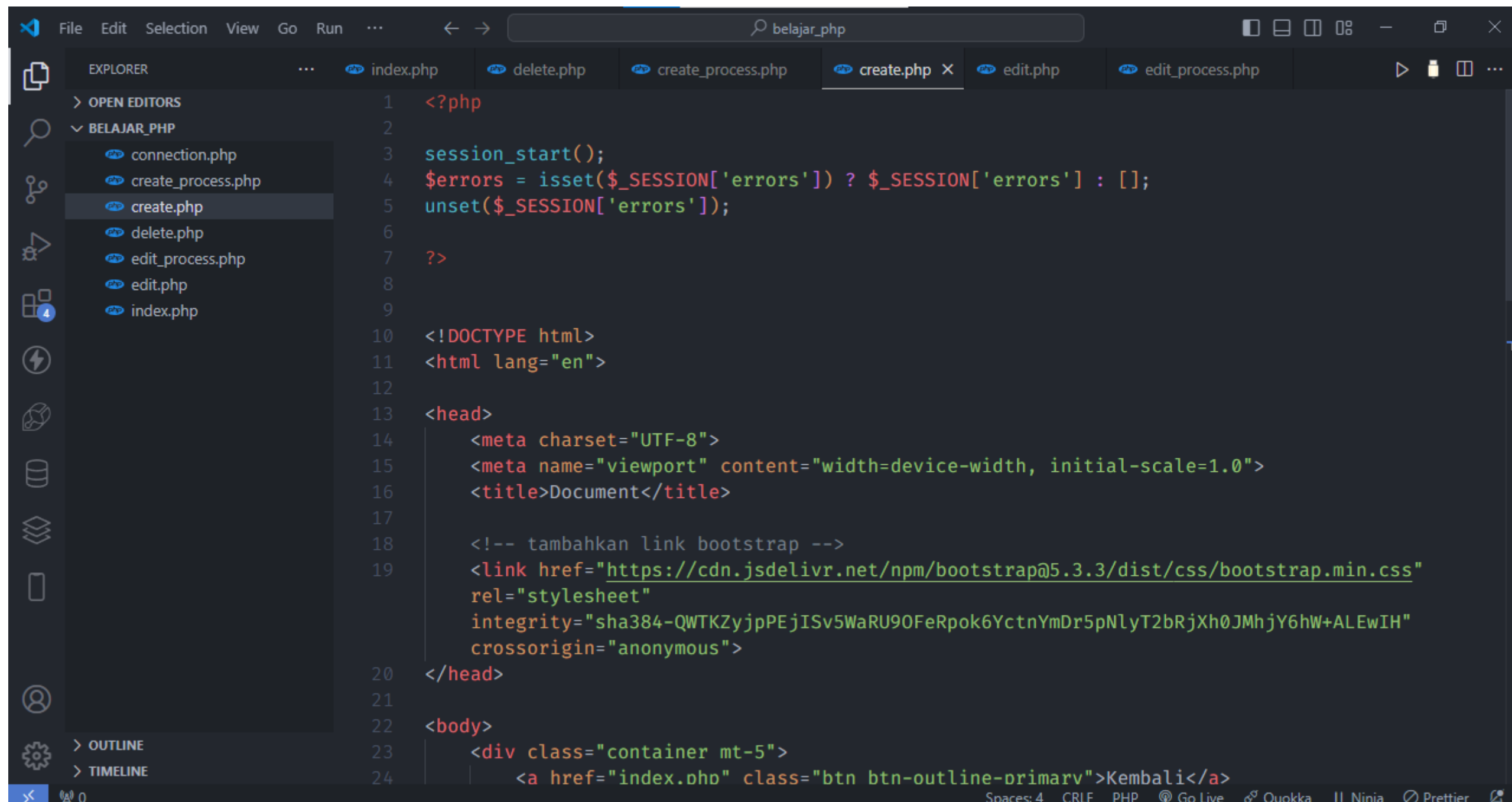
Ubah code yang terdapat di file create_process menjadi seperti dibawah:

A screenshot of a code editor interface, likely Visual Studio Code, showing a PHP file named 'create_process.php'. The editor has a dark theme. On the left, the 'EXPLORER' sidebar shows a project named 'BELAJAR_PHP' with several files: 'connection.php', 'create_process.php' (selected), 'create.php', 'delete.php', 'edit_process.php', 'edit.php', and 'index.php'. The main editor area displays the code for 'create_process.php'. The code includes a check for empty stock, an SQL insert query, and a success message using JavaScript's alert function. The status bar at the bottom indicates 'Spaces: 4', 'CRLF', 'PHP', and various extensions like 'Go Live', 'Quokka', 'Ninja', and 'Prettier'.

```
11 if (empty(trim($stock))) {  
22     $errors['stock'] = "Stok Produk Required";  
23 }  
24  
25 if (empty($errors)) {  
26     $productName = mysqli_escape_string($conn, $productName);  
27     $price = mysqli_escape_string($conn, $price);  
28     $stock = mysqli_escape_string($conn, $stock);  
29     $query = "INSERT INTO tbl_product (product_name,price,stock) VALUES ('$productName',  
30     '$price','$stock')";  
31  
32     $result = mysqli_query($conn, $query);  
33  
34     if ($result) {  
35         echo "<script>  
36             alert('Data berhasil ditambahkan!');  
37             window.location.href = 'index.php';  
38             </script>";  
39     }  
40 } else {  
41     var_dump($errors);  
42     $_SESSION['errors'] = $errors;  
43     header("Location:create.php");  
44 }  
45
```


Menampilkan Validation

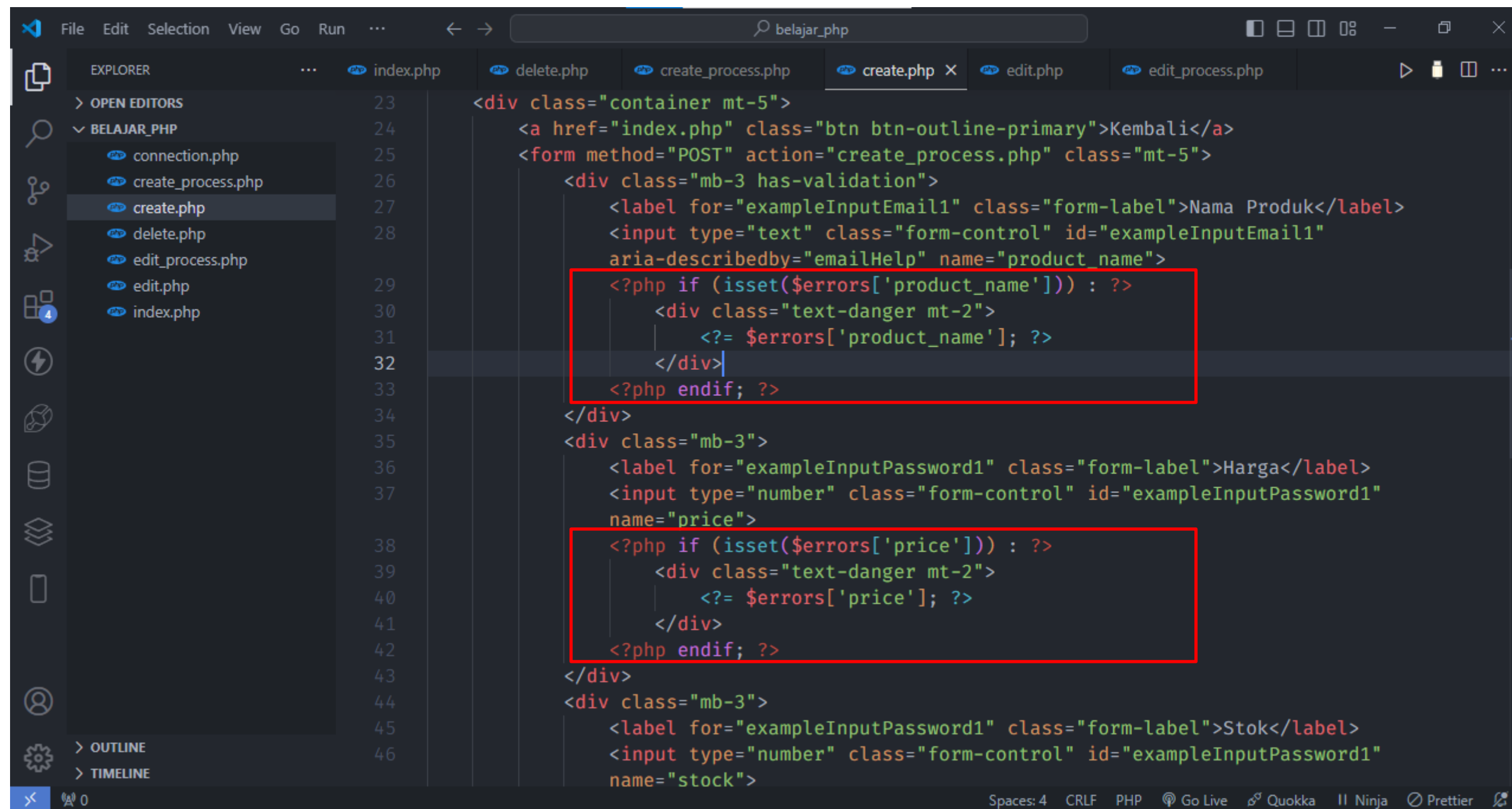
Untuk menampilkan pesan kesalahannya, ubah code pada file create.php menjadi seperti dibawah



```
1 <?php
2
3 session_start();
4 $errors = isset($_SESSION['errors']) ? $_SESSION['errors'] : [];
5 unset($_SESSION['errors']);
6
7 ?>
8
9
10 <!DOCTYPE html>
11 <html lang="en">
12
13 <head>
14     <meta charset="UTF-8">
15     <meta name="viewport" content="width=device-width, initial-scale=1.0">
16     <title>Document</title>
17
18     <!-- tambahkan link bootstrap -->
19     <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"
20           rel="stylesheet"
21           integrity="sha384-QWTKZyjpPEjISv5WaRU90FeRpok6YctnYmDr5pNlyT2bRjXh0JMhY6hW+ALEwIH"
22           crossorigin="anonymous">
23 </head>
24
25 <body>
26     <div class="container mt-5">
27         <a href="index.php" class="btn btn-outline-primary">Kembali</a>
```

Menampilkan Validation

Tambahkan pesan kesalahan untuk masing-masing input

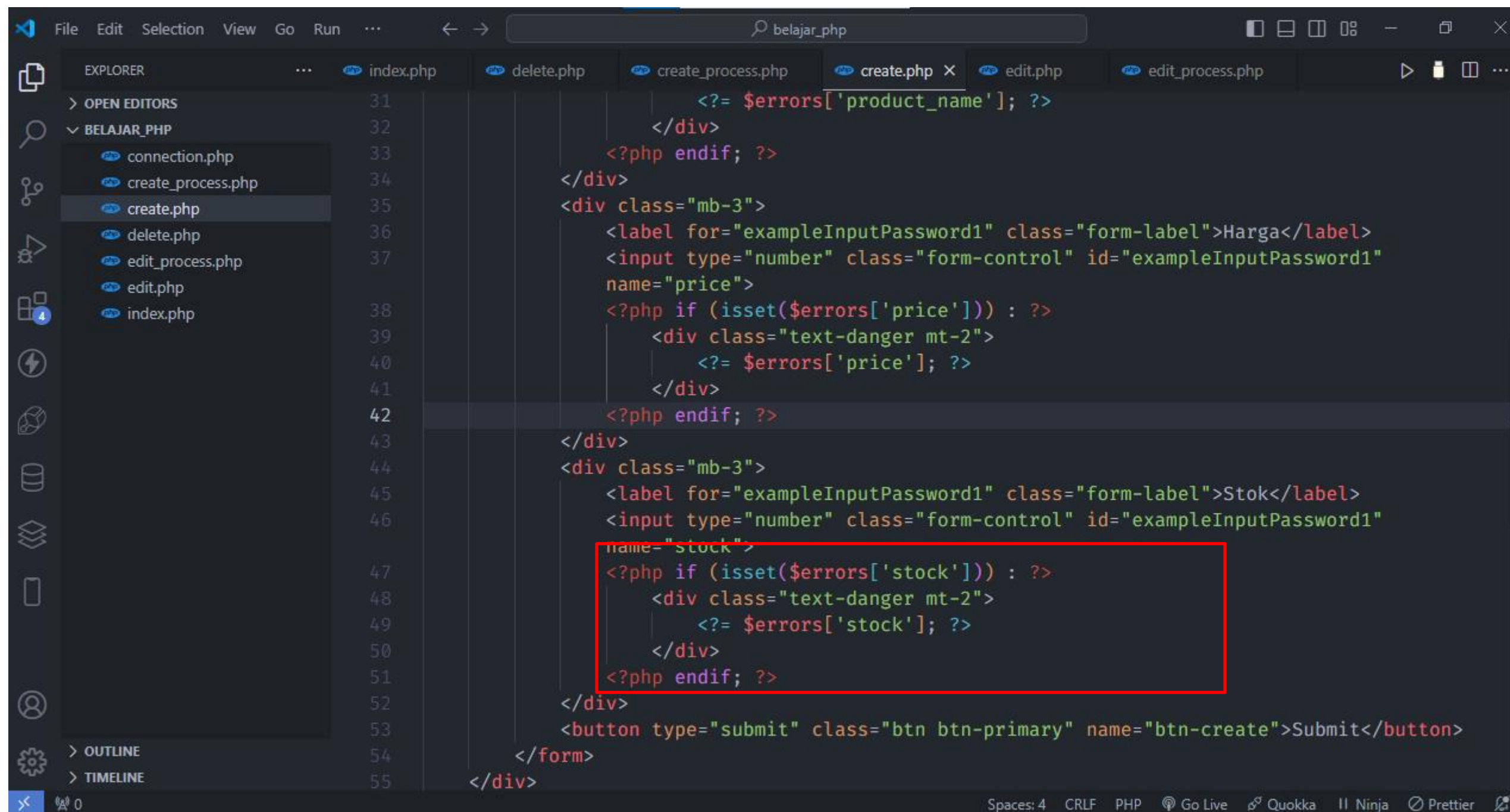


The screenshot shows a code editor with a dark theme. The Explorer panel on the left shows a project named 'BELAJAR_PHP' with files like 'connection.php', 'create_process.php', 'create.php', 'delete.php', 'edit_process.php', 'edit.php', and 'index.php'. The main editor area shows the 'create.php' file. The code is HTML with embedded PHP for validation. Two red boxes highlight the validation message blocks for 'product_name' and 'price'.

```
23 <div class="container mt-5">
24 <a href="index.php" class="btn btn-outline-primary">Kembali</a>
25 <form method="POST" action="create_process.php" class="mt-5">
26 <div class="mb-3 has-validation">
27 <label for="exampleInputEmail1" class="form-label">Nama Produk</label>
28 <input type="text" class="form-control" id="exampleInputEmail1"
29   aria-describedby="emailHelp" name="product_name">
30 <?php if (isset($errors['product_name'])) : ?>
31   <div class="text-danger mt-2">
32     <?= $errors['product_name']; ?>
33   </div>
34 <?php endif; ?>
35 </div>
36 <div class="mb-3">
37 <label for="exampleInputPassword1" class="form-label">Harga</label>
38 <input type="number" class="form-control" id="exampleInputPassword1"
39   name="price">
40 <?php if (isset($errors['price'])) : ?>
41   <div class="text-danger mt-2">
42     <?= $errors['price']; ?>
43   </div>
44 <?php endif; ?>
45 </div>
46 <div class="mb-3">
47 <label for="exampleInputPassword1" class="form-label">Stok</label>
48 <input type="number" class="form-control" id="exampleInputPassword1"
49   name="stock">
```

Menampilkan Validation

Tambahkan pesan kesalahan untuk masing-masing input



```
File Edit Selection View Go Run ... belajar_php
EXPLORER
  > OPEN EDITORS
  > BELAJAR_PHP
    connection.php
    create_process.php
    create.php
    delete.php
    edit_process.php
    edit.php
    index.php
  > OUTLINE
  > TIMELINE

31
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<?= $errors['product_name']; ?>
</div>
<?php endif; ?>
</div>
<div class="mb-3">
  <label for="exampleInputPassword1" class="form-label">Harga</label>
  <input type="number" class="form-control" id="exampleInputPassword1"
  name="price">
  <?php if (isset($errors['price'])) : ?>
    <div class="text-danger mt-2">
      <?= $errors['price']; ?>
    </div>
  <?php endif; ?>
</div>
<div class="mb-3">
  <label for="exampleInputPassword1" class="form-label">Stok</label>
  <input type="number" class="form-control" id="exampleInputPassword1"
  name="stock">
  <?php if (isset($errors['stock'])) : ?>
    <div class="text-danger mt-2">
      <?= $errors['stock']; ?>
    </div>
  <?php endif; ?>
</div>
<button type="submit" class="btn btn-primary" name="btn-create">Submit</button>
</form>
</div>
```

Menampilkan Validation

Maka hasilnya akan seperti dibawah

[Kembali](#)

Nama Produk

Nama Produk Required

Harga

Harga Produk Required

Stok

Stok Produk Required

[Submit](#)

Validation Update

Silahkan tambahkan hal serupa pada file edit dan edit_process

Terima Kasih
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