

IMPLEMENTASI DAN PENGUJIAN PERANGKAT LUNAK

Tugas-2

GREEN KINGDOM

KELAS IF-10-02

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PROGRAM STUDI S1 TEKNIK INFORMATIKA

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Admin Functionality

C Code

```
#include <stdio.h>
```

```
#include <string.h>
```

```
struct Product {
```

```
    int id;
```

```
    char name[50];
```

```
    float price;
```

```
    int stock;
```

```
};
```

```
void insertProduct(struct Product *product) {
```

```
    printf("Enter Product ID: ");
```

```
    scanf("%d", &product->id);
```

```
    printf("Enter Product Name: ");
```

```
    scanf("%s", product->name);
```

```
    printf("Enter Product Price: ");
```

```
    scanf("%f", &product->price);
```

```
    printf("Enter Product Stock: ");
```

```
    scanf("%d", &product->stock);
```

```
}
```

```
void displayProduct(struct Product product) {
```

```
    printf("Product ID: %d\n", product.id);
```

```

    printf("Product Name: %s\n", product.name);

    printf("Product Price: %.2f\n", product.price);

    printf("Product Stock: %d\n", product.stock);
}

int main() {

    struct Product product;

    insertProduct(&product);

    printf("Product added successfully!\n");

    displayProduct(product);

    return 0;

}

```

PHP Code (Product Insertion):

```

<?php

$servername = "localhost";

$username = "root";

$password = "";

$dbname = "shop";

// Create connection

$conn = new mysqli($servername, $username, $password, $dbname);

// Check connection

if ($conn->connect_error) {

```

```

    die("Connection failed: " . $conn->connect_error);
}

if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $name = $_POST['name'];
    $price = $_POST['price'];
    $stock = $_POST['stock'];

    $sql = "INSERT INTO products (name, price, stock) VALUES ('$name', '$price', '$stock')";

    if ($conn->query($sql) === TRUE) {
        echo "New product added successfully";
    } else {
        echo "Error: " . $sql . "<br>" . $conn->error;
    }
}

$conn->close();
?>

<form method="post" action="">

    Product Name: <input type="text" name="name"><br>

    Product Price: <input type="text" name="price"><br>

    Product Stock: <input type="text" name="stock"><br>

    <input type="submit" value="Add Product">

</form>

```

Product Deletion (Admin Functionality)

C Code

```
#include <stdio.h>

struct Product {
    int id;
    char name[50];
    float price;
    int stock;
};

void deleteProduct(struct Product *product) {
    product->id = 0;
    strcpy(product->name, "");
    product->price = 0;
    product->stock = 0;
    printf("Product deleted successfully!\n");
}

int main() {
    struct Product product = {1, "Eco Bag", 20.5, 100}; // Sample product

    printf("Before deletion:\n");

    printf("Product ID: %d, Name: %s, Price: %.2f, Stock: %d\n", product.id, product.name,
product.price, product.stock);
```

```
deleteProduct(&product);

printf("After deletion:\n");

printf("Product ID: %d, Name: %s, Price: %.2f, Stock: %d\n", product.id, product.name,
product.price, product.stock);

return 0;
}
```

PHP Code (Product Deletion):

```
<?php

$servername = "localhost";

$username = "root";

$password = "";

$dbname = "shop";

// Create connection

$conn = new mysqli($servername, $username, $password, $dbname);

// Check connection

if ($conn->connect_error) {

    die("Connection failed: " . $conn->connect_error);

}

if ($_SERVER["REQUEST_METHOD"] == "POST") {

    $id = $_POST['id'];
```

```
$sql = "DELETE FROM products WHERE id = $id";

if ($conn->query($sql) === TRUE) {
    echo "Product deleted successfully";
} else {
    echo "Error: " . $sql . "<br>" . $conn->error;
}
}
$conn->close();
?>

<form method="post" action="">

    Product ID to Delete: <input type="text" name="id"><br>

    <input type="submit" value="Delete Product">

</form>
```

Customer Login

C Code

```
#include <stdio.h>

#include <string.h>

void login() {

    char username[50], password[50];

    char correctUsername[] = "customer";

    char correctPassword[] = "password123";


    printf("Enter username: ");

    scanf("%s", username);

    printf("Enter password: ");

    scanf("%s", password);


    if (strcmp(username, correctUsername) == 0 && strcmp(password, correctPassword) == 0) {

        printf("Login successful!\n");

    } else {

        printf("Invalid username or password.\n");

    }

}

int main() {

    login();

    return 0;
```



```
}
```

PHP Code (Customer Login):

```
<?php
```

```
$correct_username = "customer";
```

```
$correct_password = "password123";
```

```
if ($_SERVER["REQUEST_METHOD"] == "POST") {
```

```
    $username = $_POST['username'];
```

```
    $password = $_POST['password'];
```

```
    if ($username == $correct_username && $password == $correct_password) {
```

```
        echo "Login successful!";
```

```
    } else {
```

```
        echo "Invalid username or password.";
```

```
    }
```

```
}
```

```
?>
```

```
<form method="post" action="">
```

```
    Username: <input type="text" name="username"><br>
```

```
    Password: <input type="password" name="password"><br>
```

```
    <input type="submit" value="Login">
```

```
</form>
```

Order Placement and Payment (Customer Functionality)

C Code

```
#include <stdio.h>

void placeOrder() {
    int quantity;
    float price = 15.0, total;

    printf("Enter quantity: ");
    scanf("%d", &quantity);

    total = price * quantity;
    printf("Total amount: $%.2f\n", total);
    printf("Order placed successfully!\n");
}

int main() {
    placeOrder();
    return 0;
}
```

PHP Code (Order Placement):

```
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $quantity = $_POST['quantity'];
    $price = 15.0;
    $total = $price * $quantity;
```

```
    echo "Total amount: $" . $total . "<br>";  
    echo "Order placed successfully!";  
}  
?>  
  
<form method="post" action="">  
    Quantity: <input type="text" name="quantity"><br>  
    <input type="submit" value="Place Order">  
</form>
```