

**Lab report of E-Commerce**

**Submitted by**: **Submitted to:**

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**Lab 1: Write a script to add product in database.**

<?php include 'config.php'; if(isset($\_POST['submit'])){

$error = array();

$product\_Name = isset($\_POST['name'])? $\_POST['name']:''; $product\_Price = isset($\_POST['price'])? $\_POST['price']:''; if(empty($product\_Name)){

$error[] = 'Please enter product name';

}

if(empty($product\_Price)){

$error[] = 'Please enter product price';

}

if(!is\_dir(UPLOAD\_DIR)){ mkdir(UPLOAD\_DIR,0777,true);

}

$file\_name = $\_FILES['file']['name'];

$file\_tmp=$\_FILES['file']['tmp\_name'];

$tmp = explode(".",$file\_name); $file\_ext = end($tmp); if(empty($error)){

$insert\_product = mysqli\_query($conn,"INSERT INTO products(name,price,image)

VALUES('$product\_Name','$product\_Price','$file\_name')"); if($insert\_product==1){

move\_uploaded\_file($file\_tmp,UPLOAD\_DIR.$file\_name);

$message[] = 'Product added successfully';

}else{

$message[] = 'Error adding product';

}

}

}

?>

<!DOCTYPE html>

<html>

<head>

<meta http-equiv="X-UA-Compatible" content="IE=edge,chrome=1" />

<meta name="viewport" content="width=device-width, initial-scale=1, user-scalable=yes" />

<meta charset="UTF-8" />

<title>Save product details</title>

<script src="https://code.jquery.com/jquery-3.2.1.min.js" type="text/javascript"></script>

<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/fontawesome/6.0.0/css/all.min.css">

</head>

<body>

<?php

if(isset($message)){ echo '<div class="message">'; foreach ($message as $msg) { echo '<span>' . $msg . '</span>';

}

echo '</div>';

}

?>

<div class="header">Watch Haven</div>

<div class="form-container">

<h2>Add a product</h2>

<form action="" method="post" enctype="multipart/form-data">

<label for="name">Name</label>

<input type="text" id="name" name="name" value="<?php echo isset($product\_Name) ? $product\_Name : ''; ?>">

<label for="price">Price</label>

<input type="number" id="price" name="price" min="0" value="<?php echo isset($product\_Price) ? $product\_Price : ''; ?>">

<label for="file">Image</label>

<input type="file" id="file" name="file">

<button type="submit" id="submit" name="submit">Submit</button>

</form>

<div class="link-to-product-details">

<a href="http://localhost/Ecommerce/display.php" style="color: #0277bd; text-decoration: none;">View Product</a>

</div>

</div>

</body>

</html>

**Lab 2: Write script to display the product in webpage.**

<?php

@include 'config.php'; if(isset($\_POST['add\_to\_wishlist'])){

$product\_Name=$\_POST['product\_name'];

$product\_Price=$\_POST['product\_price'];

$product\_Image=$\_POST['product\_image'];

$product\_Quantity=1;

$select\_wishlist= mysqli\_query($conn,"SELECT \* from wishlist WHERE name = '$product\_Name'"); if(mysqli\_num\_rows($select\_wishlist)>5){

$message []= "Product already added to wishlist";

}

else{

$insert\_products=mysqli\_query($conn,"INSERT into wishlist(name,price, image, quantity) VALUES

('$product\_Name','$product\_Price','$product\_Image','$product\_Quantity')"); $message[]="Product added to wishlist";

}

}

if(isset($\_POST['add\_to\_cart'])){

$product\_Name=$\_POST['product\_name'];

$product\_Price=$\_POST['product\_price'];

$product\_Image=$\_POST['product\_image'];

$product\_Quantity=1;

$select\_cart= mysqli\_query($conn,"SELECT \* from cart WHERE name = '$product\_Name'"); if(mysqli\_num\_rows($select\_cart)>2){

$message []= "Product already added to cart";

}

else{

$insert\_products=mysqli\_query($conn,"INSERT into cart(name,price, image, quantity) VALUES

('$product\_Name','$product\_Price','$product\_Image','$product\_Quantity')"); $message[]="Product added to cart";

}

}

?>

<!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=1.0">

<title>Products</title>

<link rel="stylesheet" href=[https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0/css/all.min.css>](https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0/css/all.min.css)

</head>

<body>

<div class="action-links">

<a href="http://localhost/Ecommerce" class="add-product">Add product</a>

<a href="http://localhost/Ecommerce/wishlist.php" class="wishlist">Wishlist</a>

<a href="http://localhost/Ecommerce/cart.php" class="cart">Cart</a>

</div> <?php if(isset($message)){

foreach($message as $message){ echo '<div class="message"><span>'.$message.

'</span> <i class="fas fa-times"

onclick="this.parentElement.style.display = none;"></i> </div>';

};

};

?>

<div class="container">

<section class="products">

<h1 class="heading" style="text-align: center; margin-top: 20px; margin-bottom: 20px;">LATEST PRODUCTS</h1>

<div class="box-container">

<?php

$select\_products= mysqli\_query($conn,"SELECT \* from products"); if(mysqli\_num\_rows($select\_products)>0){

while($fetch\_product=mysqli\_fetch\_assoc($select\_products)){

?>

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

<div class="box">

<img src="<?php echo UPLOAD\_DIR,$fetch\_product['image'];?>" alt="">

<h3><?php echo $fetch\_product['name']; ?></h3>

<div class="price">Rs.<?php echo $fetch\_product['price']; ?>/-</div>

<input type="hidden" name="product\_name" value="<?php echo $fetch\_product['name']; ?>">

<input type="hidden" name="product\_price" value="<?php echo $fetch\_product['price']; ?>">

<input type="hidden" name="product\_image" value="<?php echo $fetch\_product['image']; ?>"> <div class="btn-container">

<input type="submit" class="btn" value="Add to cart" name="add\_to\_cart">

<input type="submit" class="btn wishlist-btn" value="Add to wishlist" name="add\_to\_wishlist">

</div>

</div>

</form>

<?php

};

};

?>

</div>

</section>

</div>

</body>

</html>

**LAB 3: A script to add the product in shopping cart.**

<?php

@include 'config.php';

if(isset($\_POST['update\_update\_btn']))

{

$update\_value= $\_POST['update\_quantity'];

$update\_id=$\_POST['update\_quantity\_id'];

$update\_query = mysqli\_query($conn,"UPDATE cart SET quantity='$update\_value' WHERE id='$update\_id'"); if($update\_query){ header('location:cart.php');

}

}

if(isset($\_GET['remove']))

{

$remove\_id= $\_GET['remove'];

mysqli\_query($conn,"DELETE from cart WHERE id='$remove\_id'"); header('location:cart.php');

}

if(isset($\_GET['delete\_all']))

{

mysqli\_query($conn,"DELETE from cart"); header('location:cart.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=1.0">

<title>shopping cart</title>

<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/fontawesome/6.0.0/css/all.min.css">

<link rel="stylesheet" href="style.css">

</head>

<body>

<div class="container">

<div style="text-align: right; margin: 20px;">

<a href="http://localhost/Ecommerce" style="display: inline-block; padding: 10px 20px; margin: 10px; background-color: green; color: white; text-decoration: none; border-radius: 5px; font-size: 16px;">Add product</a>

<a href="http://localhost/Ecommerce/wishlist.php" style="display: inline-block; padding: 10px 20px; margin: 10px; background-color: #007bff; color: white; text-decoration: none; border-radius: 5px; fontsize: 16px;">Wishlist</a>

</div>

<section class="shopping-cart">

<h1 class="heading">shopping cart</h1>

<table>

<thead>

<th>image</th>

<th>name</th>

<th>price</th>

<th>quantity</th>

<th>total price</th>

<th>action</th>

</thead>

<tbody>

<?php

$select\_cart = mysqli\_query($conn,"SELECT \* from cart");

$grand\_total = 0;

if(mysqli\_num\_rows($select\_cart) > 0) {

while($fetch\_cart = mysqli\_fetch\_assoc($select\_cart)) {

$sub\_total = $fetch\_cart['price'] \* $fetch\_cart['quantity'];

$grand\_total += $sub\_total;

?>

<tr>

<td><img src="uploaded\_img/<?php echo $fetch\_cart['image']; ?>" height="100" alt=""></td>

<td><?php echo $fetch\_cart['name']; ?></td>

<td>Rs.<?php echo number\_format($fetch\_cart['price']); ?>/-</td>

<td>

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

<input type="hidden" name="update\_quantity\_id" value="<?php echo $fetch\_cart['id']; ?>" >

<input type="number" name="update\_quantity" min="1" value="<?php echo $fetch\_cart['quantity']; ?>" >

<input type="submit" value="update" name="update\_update\_btn">

</form>

</td>

<td>Rs.<?php echo number\_format($sub\_total); ?>/-</td>

<td><a href="cart.php?remove=<?php echo $fetch\_cart['id']; ?>" onclick="return confirm('remove item from cart?')" class="delete-btn"> <i class="fas fa-trash"></i> remove</a></td>

</tr>

<?php

}

}

?>

<tr class="table-bottom">

<td><a href="display.php" class="option-btn" style="margin-top: 0; background-color: red;">continue shopping</a></td>

<td colspan="3">grand total</td>

<td>Rs.<?php echo number\_format($grand\_total); ?>/-</td>

<td><a href="cart.php?delete\_all" onclick="return confirm('Are you sure you want to delete all?');" class="delete-btn"> <i class="fas fa-trash"></i> delete all </a></td>

</tr>

</tbody>

</table>

<div class="checkout-btn">

<a href="checkout.php" class="btn <?= ($grand\_total > 1) ? '' : 'disabled'; ?>">Proceed to checkout</a>

</div>

</section>

</div>

<script src="script.js"></script>

</body>

</html>

**LAB 4: Write a script to maintain Wishlist.**

<?php

@include 'config.php'; if (isset($\_POST['add\_to\_cart'])) {

$product\_name = $\_POST['product\_name'];

$product\_price = $\_POST['product\_price'];

$product\_image = $\_POST['product\_image'];

$product\_quantity = 1;

$select\_cart = mysqli\_query($conn, "SELECT \* FROM `cart` WHERE name = '$product\_name'"); if (mysqli\_num\_rows($select\_cart) > 0) {

$message[] = 'Product already added to cart';

} else {

$insert\_product = mysqli\_query($conn, "INSERT INTO `cart`(name,price,image,quantity)

VALUES('$product\_name','$product\_price','$product\_image','$product\_quantity')"); $message[] = 'Product added to cart successfully';

}

}

if(isset($\_GET['remove'])){ $remove\_id= $\_GET['remove'];

mysqli\_query($conn,"DELETE from wishlist WHERE id='$remove\_id'"); header('location:wishlist.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=1.0">

<title>wishlist</title>

<!-- font awesome cdn link -->

<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/fontawesome/6.0.0/css/all.min.css">

<!-- custom css file link -->

<link rel="stylesheet" href="style.css">

</head>

<body> <?php

if (isset($message)) {

foreach ($message as $message) {

echo '<div class="message"><span>' . $message . '</span> <i class="fas fa-times" onclick="this.parentElement.style.display = `none`;"></i> </div>';

}

;

}

;

?>

<div class="container">

<div style="text-align: right; margin: 20px;">

<a href="http://localhost/Ecommerce" style="display: inline-block; padding: 10px 20px; margin: 10px; background-color: green; color: white; text-decoration: none; border-radius: 5px; font-size: 16px;">Add product</a>

<a href="http://localhost/Ecommerce/display.php" style="display: inline-block; padding: 10px 20px; margin: 10px; background-color: #f8b400; color: white; text-decoration: none; border-radius: 5px; fontsize: 16px;">All Products</a>

<a href="http://localhost/Ecommerce/cart.php" style="display: inline-block; padding: 10px 20px; margin: 10px; background-color: #007bff; color: white; text-decoration: none; border-radius: 5px; fontsize: 16px;">Cart</a>

</div>

<section class="products">

<h1 class="heading">wishlist</h1>

<div class="box-container">

<?php

$select\_products = mysqli\_query($conn, "SELECT \* FROM wishlist"); if (mysqli\_num\_rows($select\_products) > 0) {

while ($fetch\_product = mysqli\_fetch\_assoc($select\_products)) {

?>

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

<div class="box">

<img src="<?php echo UPLOAD\_DIR,$fetch\_product['image'];?>" alt="">

<h3>

<?php echo $fetch\_product['name']; ?>

</h3>

<div class="price">Rs.

<?php echo $fetch\_product['price']; ?>

</div>

<input type="hidden" name="product\_name" value="<?php echo $fetch\_product['name']; ?>">

<input type="hidden" name="product\_price" value="<?php echo $fetch\_product['price']; ?>">

<input type="hidden" name="product\_image" value="<?php echo $fetch\_product['image']; ?>">

<input type="submit" class="btn" value="add to cart" name="add\_to\_cart"> <td><a href="wishlist.php?remove=<?php echo $fetch\_product['id']; ?>" onclick="return confirm('remove item from cart?')" class="delete-btn"><i class="fas fa-trash"></i> remove</a></td>

</div>

</form>

<?php

}

;

}

;

?>

</div>

</section>

</div>

**LAB 5: Write a script to check out the cart.**

<?php

@include 'config.php';

if ($\_SERVER['REQUEST\_METHOD'] === 'POST') {

$name = $\_POST['name'];

$number = $\_POST['number']; $email = $\_POST['email'];

$method = $\_POST['method'];

$house\_no = $\_POST['house\_no'];

$city = $\_POST['city'];

$street = $\_POST['street'];

$state = $\_POST['state'];

$country = $\_POST['country'];

$pin\_code = $\_POST['pin\_code'];

$grand\_total = isset($\_SESSION['grand\_total']) ? $\_SESSION['grand\_total'] : 0; if ($method === 'esewa') {

header("Location: esewa.php?total=$grand\_total");

exit(); } else { return;

}

}

?>

<!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=1.0">

<title>checkout</title>

<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/fontawesome/6.0.0/css/all.min.css">

<link rel="stylesheet" href="style.css">

</head>

<body>

<div class="container">

<section class="checkout-form">

<h1 class="heading">complete your order</h1>

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

<div class="display-order">

<?php

$select\_cart = mysqli\_query($conn,"SELECT \* from cart");

$grand\_total = 0;

if(mysqli\_num\_rows($select\_cart) > 0) {

while($fetch\_cart = mysqli\_fetch\_assoc($select\_cart)) {

$sub\_total = $fetch\_cart['price'] \* $fetch\_cart['quantity'];

$grand\_total += $sub\_total;

}

}

?>

<span class="grand-total"> grand total : Rs.<?= $grand\_total; ?>/- </span> </div>

<div class="flex">

<div class="inputBox">

<span>your name</span>

<input type="text" placeholder="Name" name="name" required>

</div>

<div class="inputBox">

<span>your number</span>

<input type="number" placeholder="Phone Number" name="number" required>

</div>

<div class="inputBox">

<span>your email</span>

<input type="email" placeholder="Email" name="email" required>

</div>

<div class="inputBox">

<span>payment method</span>

<input type="text" value="esewa" name="method" readonly>

</div>

<div class="inputBox">

<span>House Number</span>

<input type="text" placeholder="" name="house\_no" required>

</div>

<div class="inputBox">

<span>City</span>

<input type="text" placeholder="" name="city" required>

</div>

<div class="inputBox">

<span>Street</span>

<input type="text" placeholder="" name="street" required>

</div>

<div class="inputBox">

<span>State</span>

<input type="text" placeholder="" name="state" required>

</div>

<div class="inputBox">

<span>country</span>

<input type="text" placeholder="" name="country" required>

</div>

<div class="inputBox">

<span>pin code</span>

<input type="text" placeholder="" name="pin\_code" required>

</div>

</div>

<input type="submit" value="order now" name="order\_btn" class="btn">

</form>

</section>

</div>

<script src="script.js"></script>

</body>

</html>

**LAB 6: A script to integrate the payment API (Esewa).**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Esewa Payment</title>

<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/fontawesome/6.0.0/css/all.min.css">

<link href="https://fonts.googleapis.com/css2?family=Roboto:wght@400;500;700&display=swap" rel="stylesheet">

<script src="https://cdnjs.cloudflare.com/ajax/libs/crypto-js/3.1.9-1/crypto-js.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/crypto-js/3.1.9-1/hmac-sha256.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/crypto-js/3.1.9-1/enc-base64.min.js"></script>

</head>

<body>

<div class="container">

<?php

@include 'config.php';

?>

<?php

@include 'setting.php';

$select\_cart = mysqli\_query($conn, "SELECT \* from cart");

$grand\_total = 0;

if (mysqli\_num\_rows($select\_cart) > 0) {

while ($fetch\_cart = mysqli\_fetch\_assoc($select\_cart)) {

$sub\_total = $fetch\_cart['price'] \* $fetch\_cart['quantity'];

$grand\_total += $sub\_total;

}

}

$tax\_amt = $grand\_total \* (13 / 100);

?>

<h1>Esewa Payment</h1>

<div class="esewa-image">

<img src="uploaded\_img/esewa.png" height="100" alt="Esewa">

</div>

<form action="<?php echo $epay\_url ?>" method="POST">

<label for="amount">Amount:</label>

<input type="hidden" id="amount" name="amount" value="<?php echo $grand\_total ?>" required>

<input type="hidden" id="tax\_amount" name="tax\_amount" value="<?php echo $tax\_amt ?>" required>

<input type="text" id="total\_amount" name="total\_amount" value="<?php echo $grand\_total + $tax\_amt + 0 + 0 ?>" required readonly>

<input type="hidden" id="transaction\_uuid" name="transaction\_uuid" required>

<input type="hidden" id="product\_code" name="product\_code" value="EPAYTEST" required>

<input type="hidden" id="product\_service\_charge" name="product\_service\_charge" value="0" required>

<input type="hidden" id="product\_delivery\_charge" name="product\_delivery\_charge" value="0" required>

<input type="hidden" id="success\_url" name="success\_url" value="https://esewa.com.np" required>

<input type="hidden" id="failure\_url" name="failure\_url" value="https://google.com" required>

<input type="hidden" id="signed\_field\_names" name="signed\_field\_names" value="total\_amount,transaction\_uuid,product\_code" required>

<input type="hidden" id="signature" name="signature" required>

<input value="Pay With Esewa" type="submit">

</form>

</div> <script>

function generateSignature() { var currentTime = new Date();

var formattedTime = currentTime.toISOString().slice(2, 10).replace(/-/g, '') + '-' + currentTime.getHours() + currentTime.getMinutes() + currentTime.getSeconds(); document.getElementById("transaction\_uuid").value = formattedTime; var total\_amount = document.getElementById("total\_amount").value; var transaction\_uuid = document.getElementById("transaction\_uuid").value; var product\_code = document.getElementById("product\_code").value; var secret = "8gBm/:&EnhH.1/q"; var hash =

CryptoJS.HmacSHA256(`total\_amount=${total\_amount},transaction\_uuid=${transaction\_uuid},product\_c ode=${product\_code}`, secret);

var hashInBase64 = CryptoJS.enc.Base64.stringify(hash); document.getElementById("signature").value = hashInBase64;

}

generateSignature();

</script>

</body>

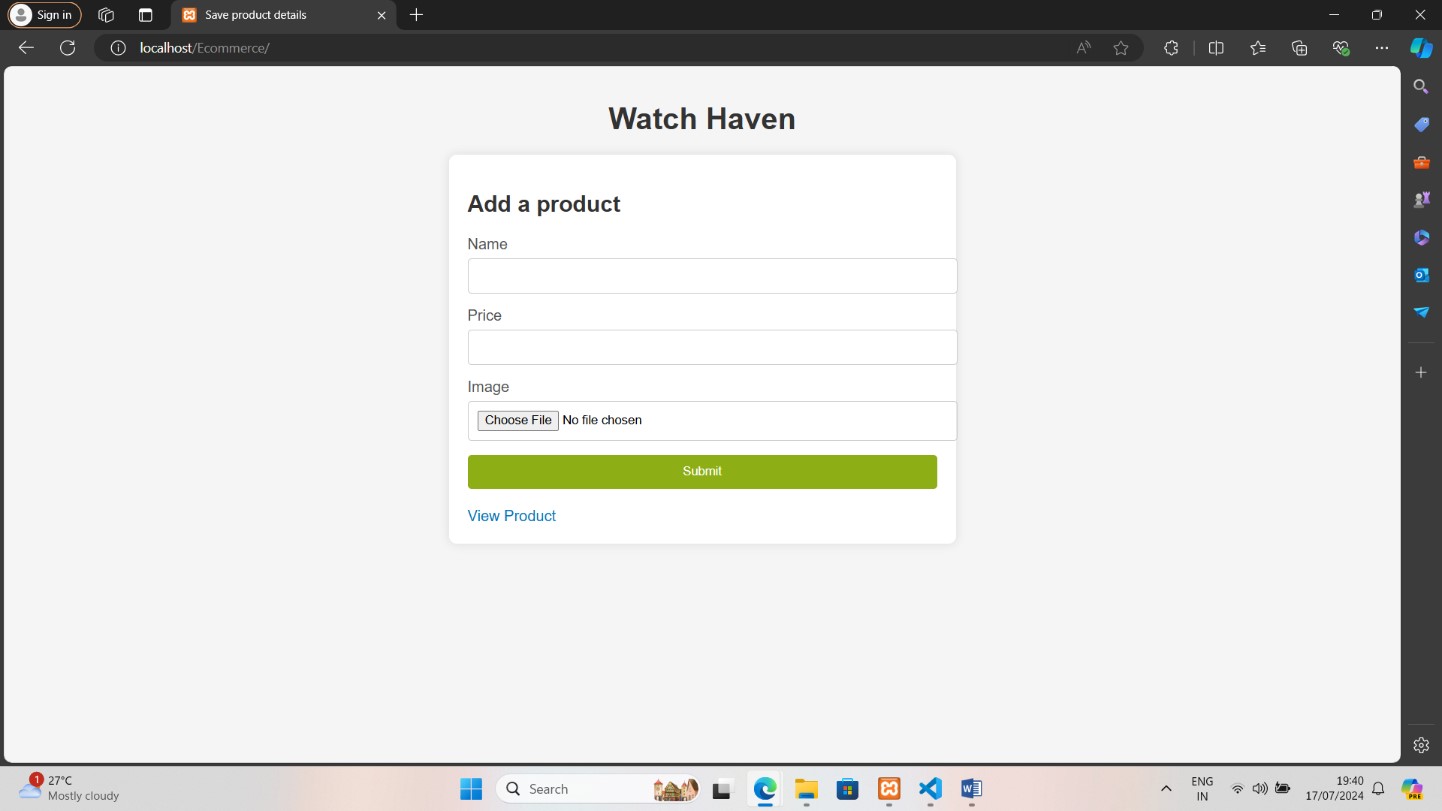
</html>

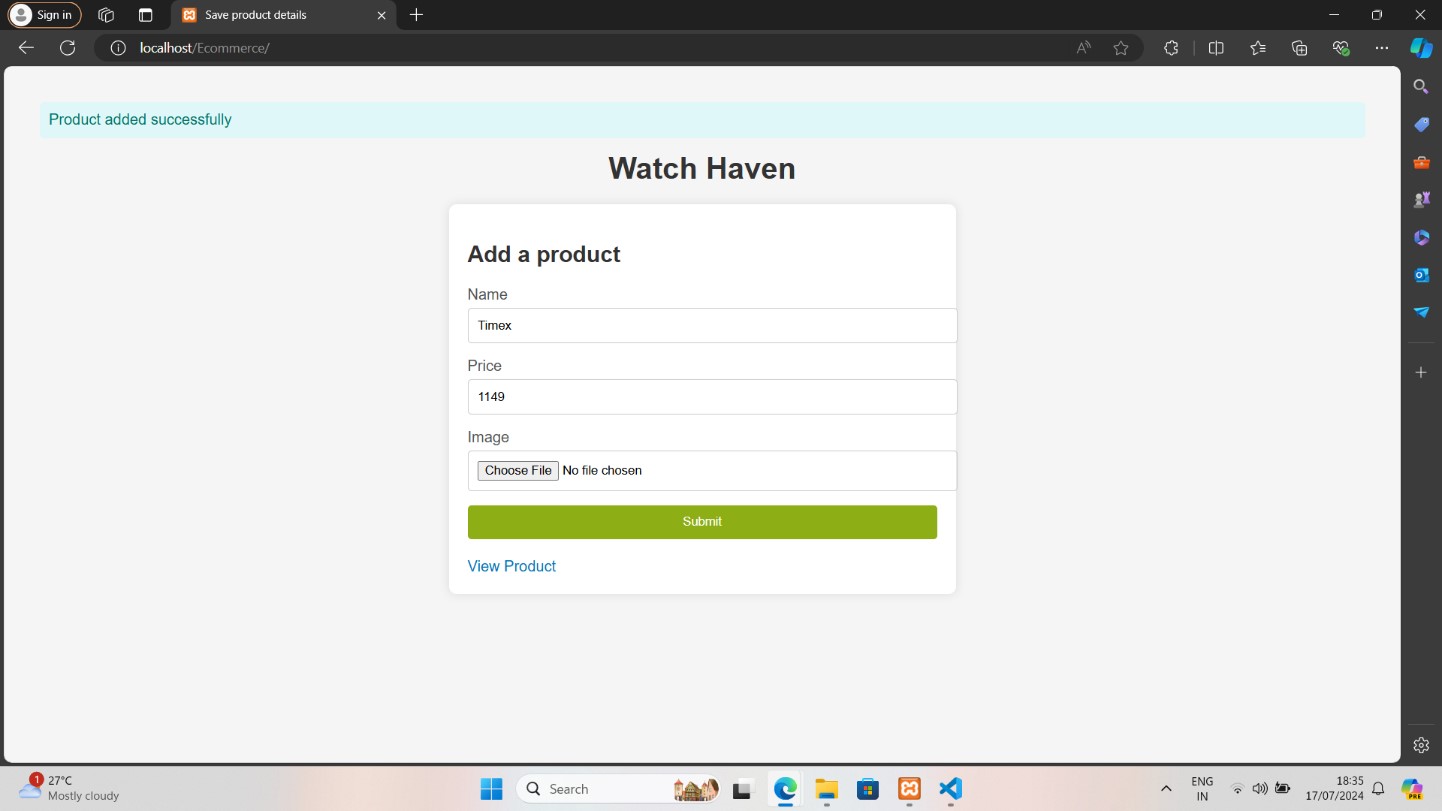
**Design**

**GUI (Graphical User Interface) Design**

# i. Home Page

* The home page serves as the entry point for users. It allows to add products to the website.

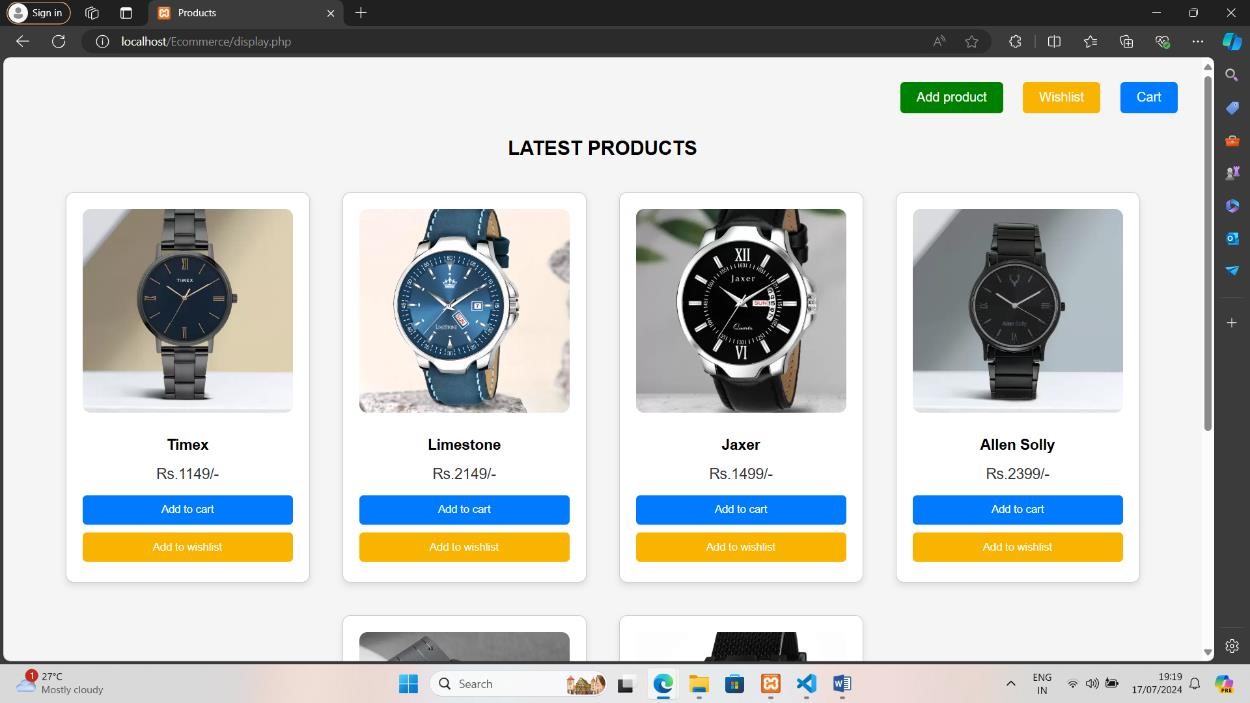




* This shows the product is added to the “Watch Haven”.

# ii. Product Listing Page

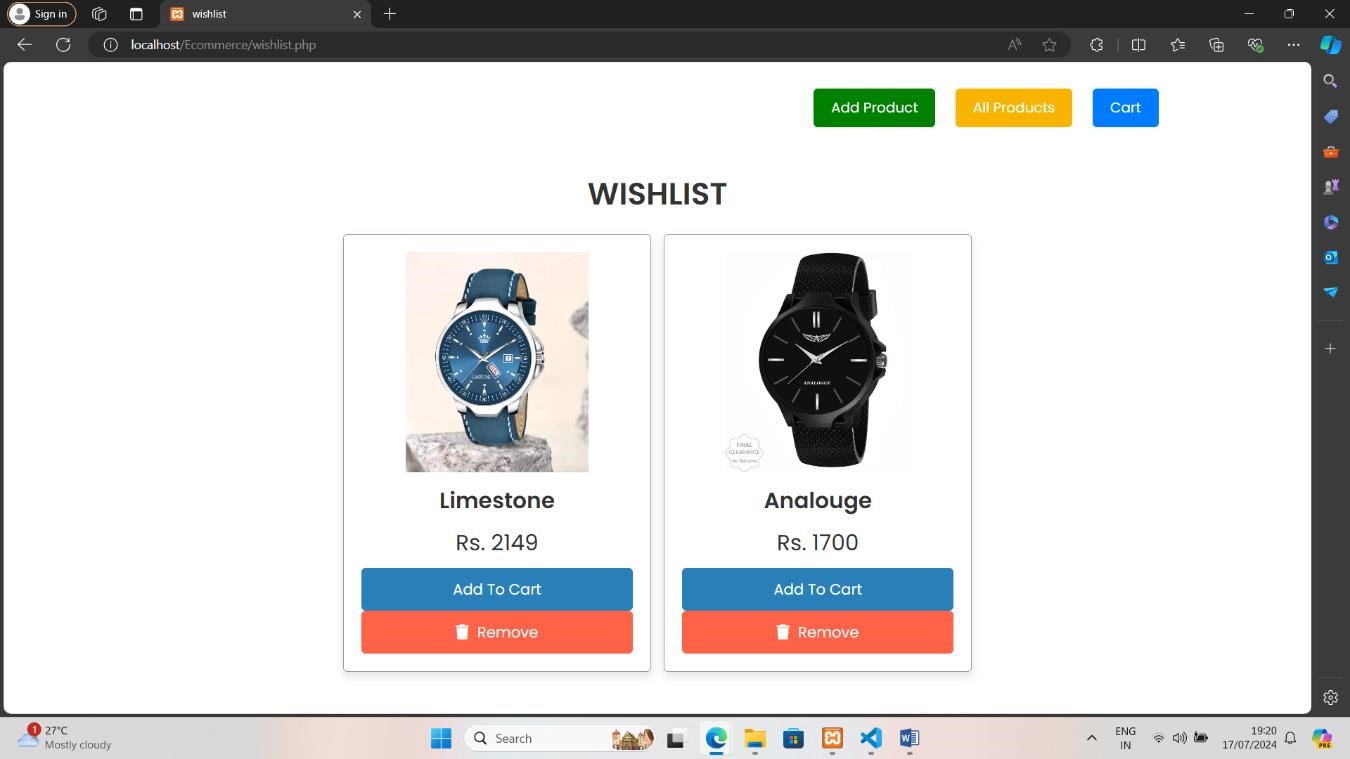
* When users click on a View Product, they're directed to the product listing page.



* It shows the products available on the website.
* It allows to add the products to cart and wishlist.

**iii. Wishlist Page**

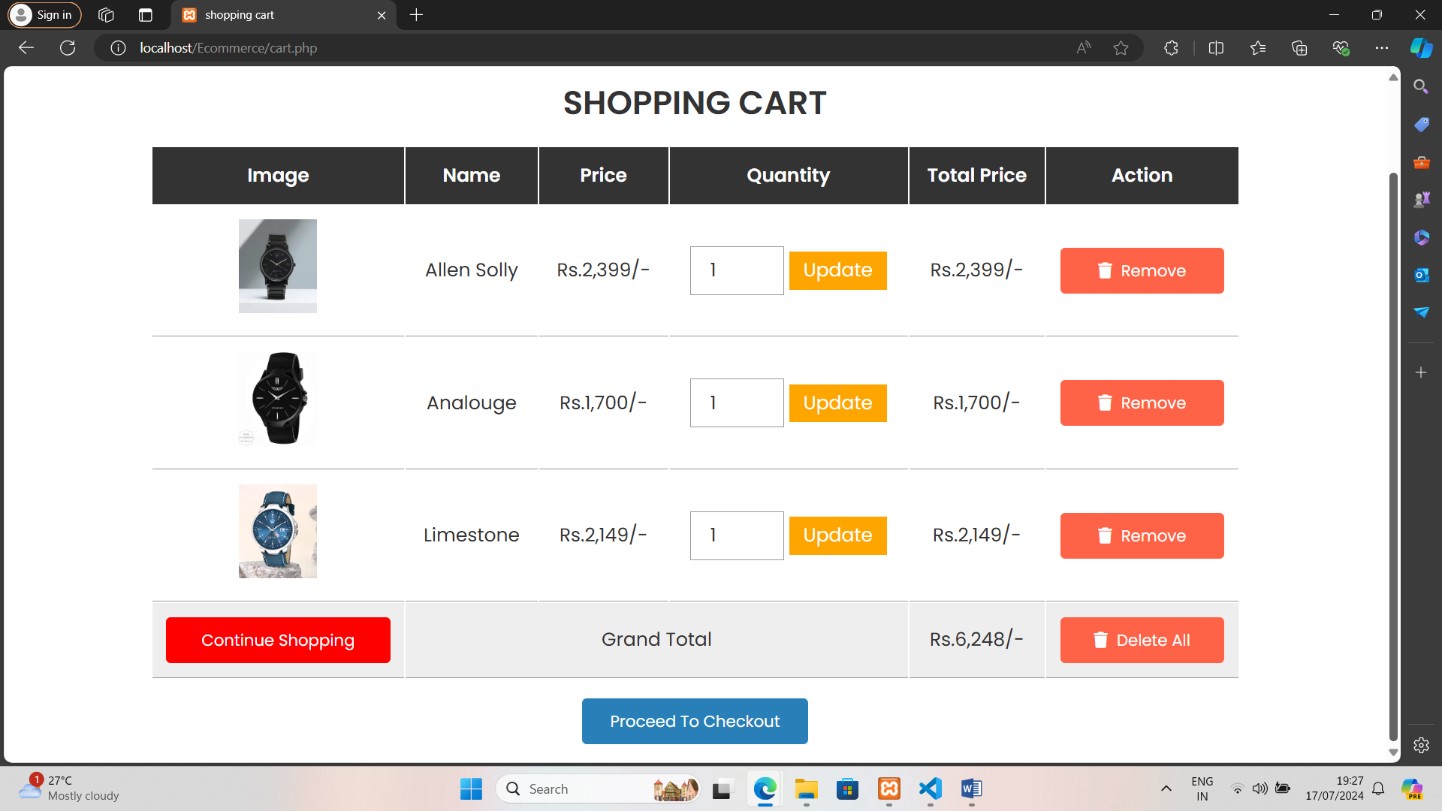
* Clicking on a wishlist button takes users to the wishlist page. This page provides comprehensive information about the selected product.



* Products can be added to cart or removed from this page.

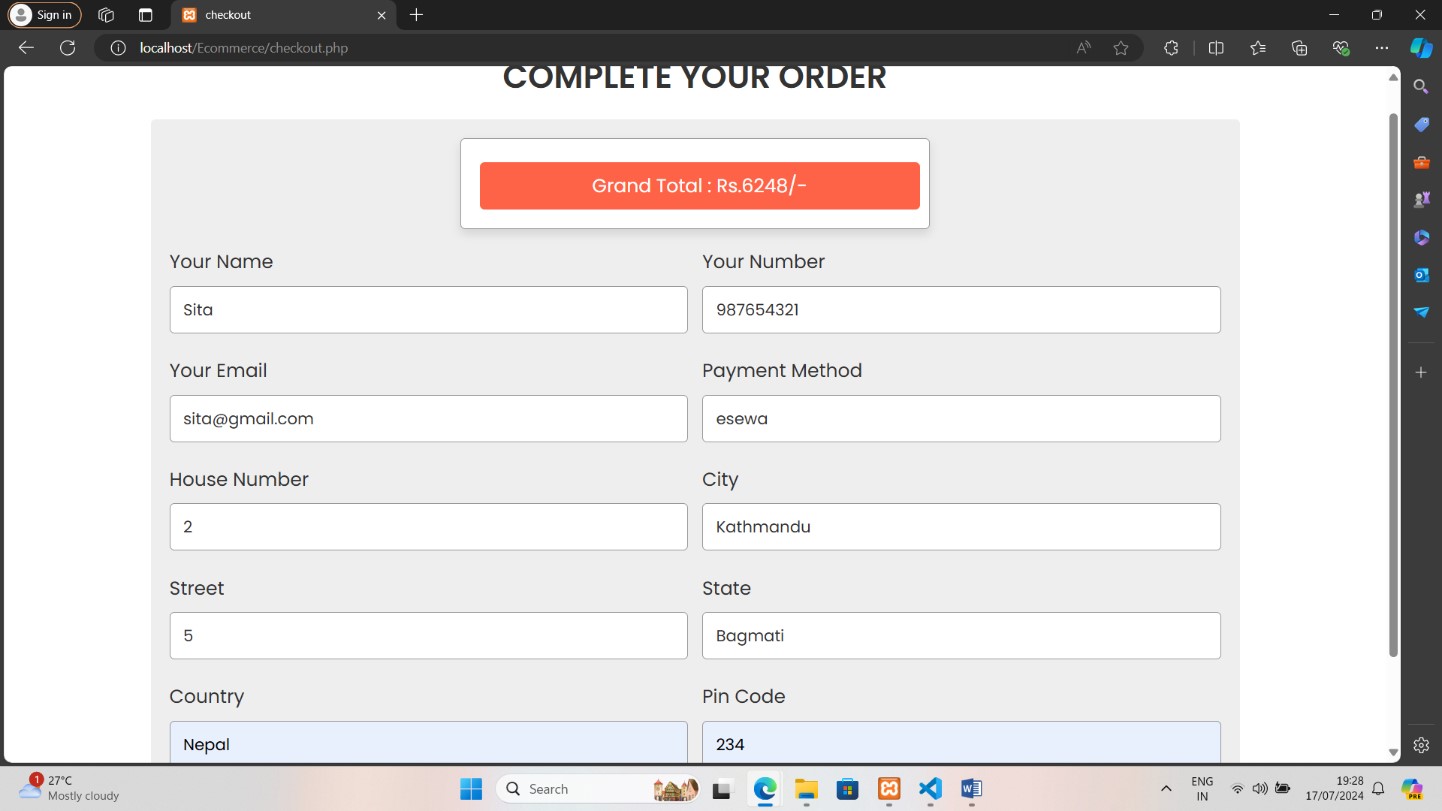
# iv. Cart Page

• The cart page has a minimalist design, focusing on clarity and ease of use. It displays a list of items added to the cart.



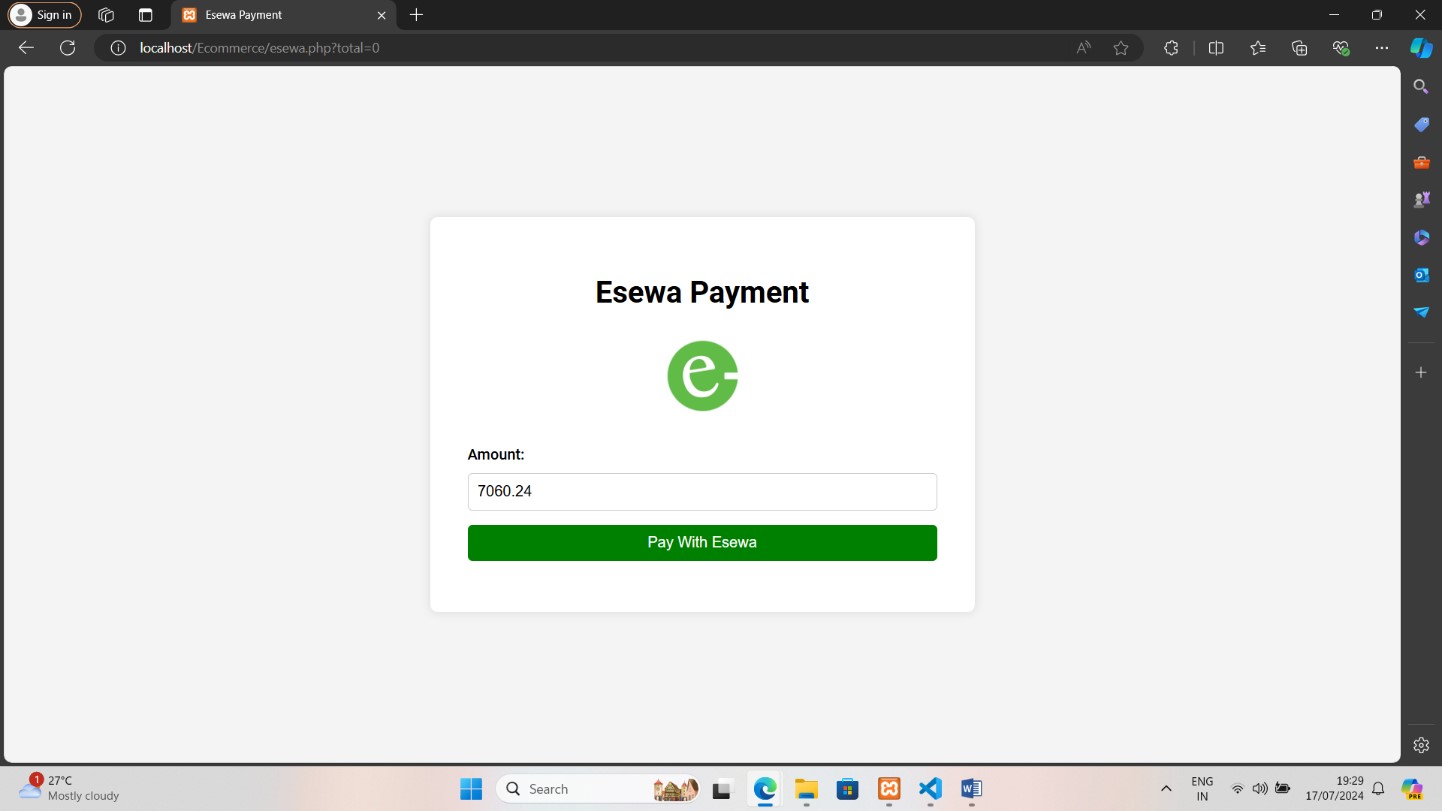
# v. Checkout Page

* This Checkout page contains the details of the users to make the payment.
* Payment method is through esewa.



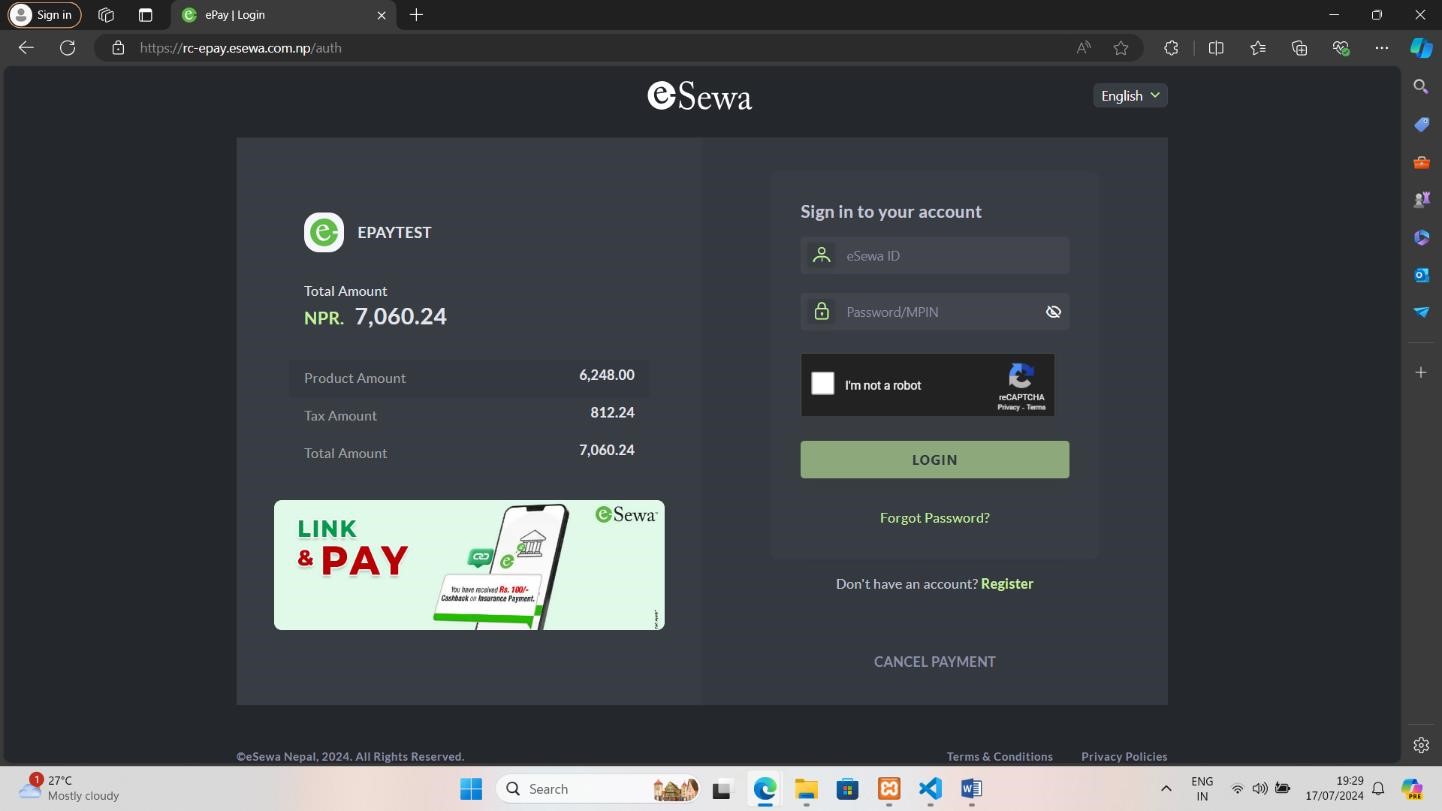
# vi. Esewa Payment Page

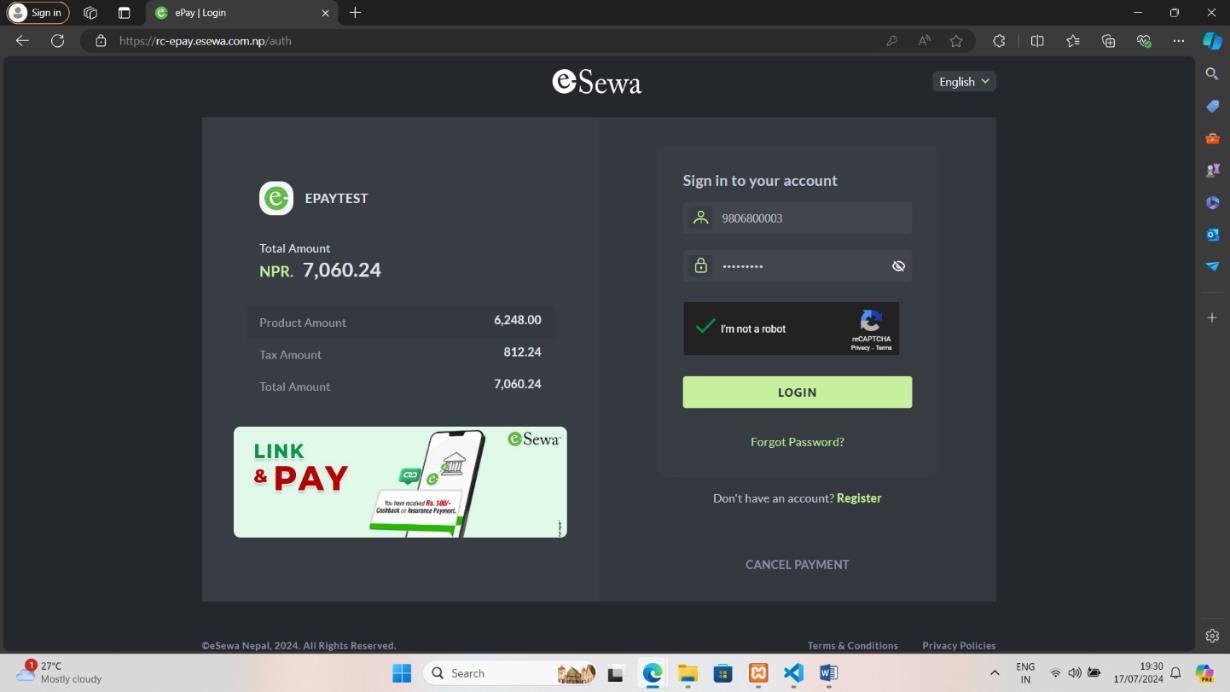
• This page provides the total amount including 13% VAT and an option to pay with Esewa.

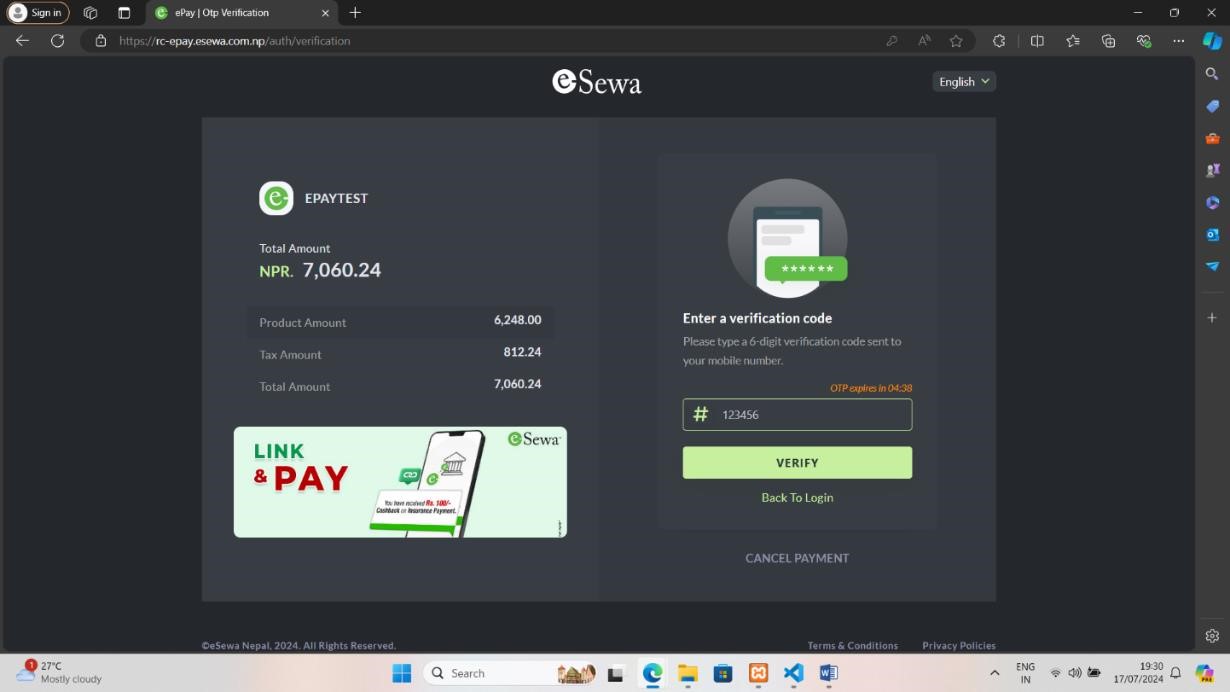


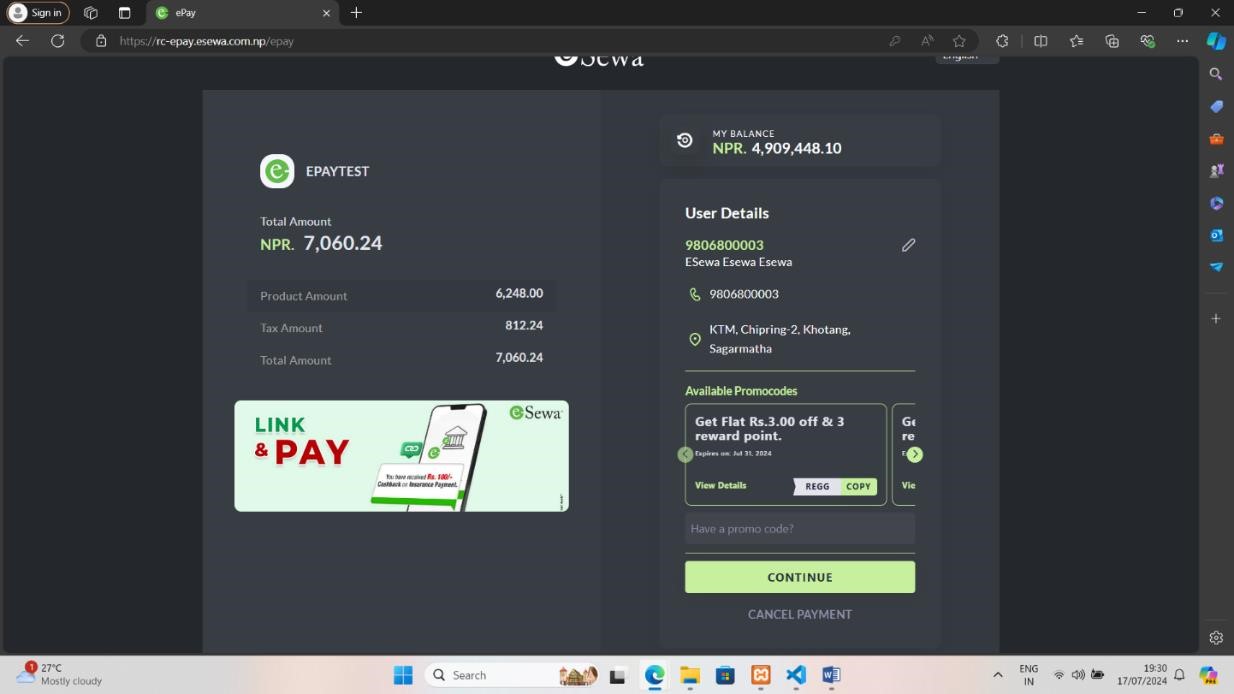
# vii. Esewa Integration Page

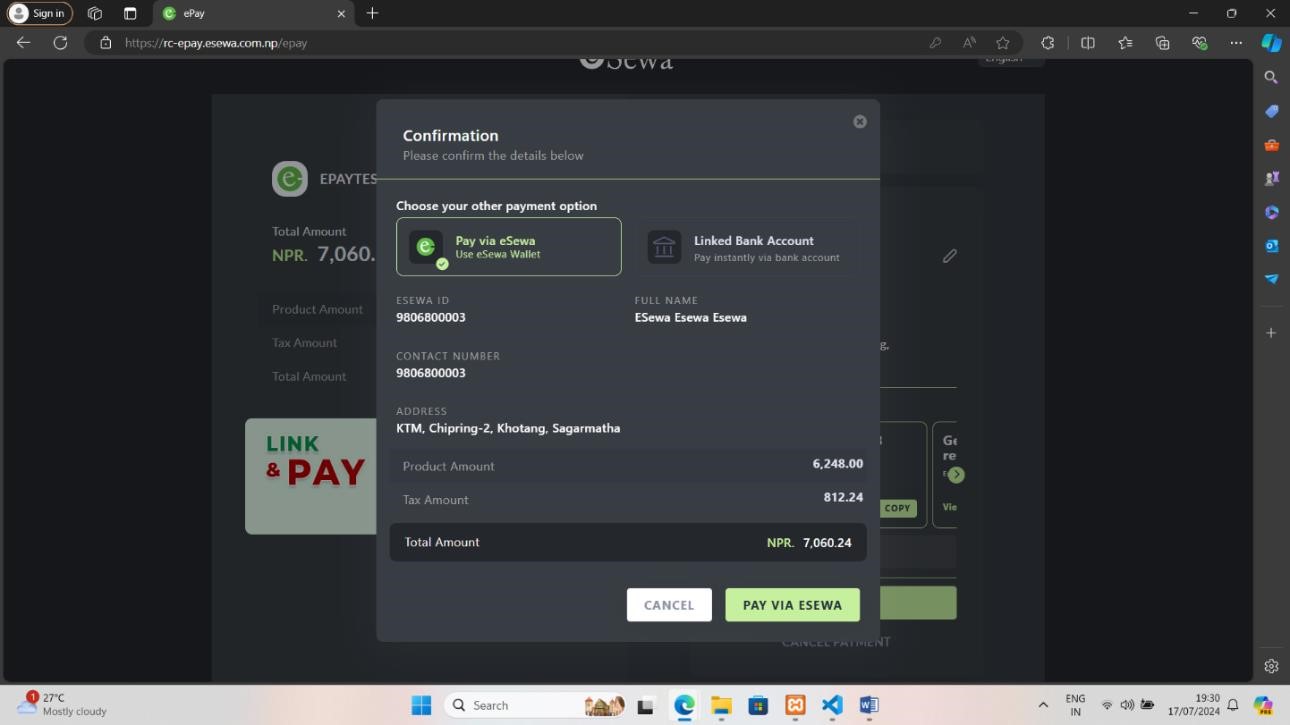
• This page allows to sign in to the esewa account to make the payment.











# viii. Payment Success Page

• This shows the completion of payment of products via esewa.

