

UNIVERSITI KUALA LUMPUR KAMPUS KOTA MALAYSIAN INSTITUTE OF INFORMATION TECHNOLOGY

COURSE DETAILS				
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COURSE NAME	PHP WEB PROGRAMMING			
COURSE CODE	ITD 31303			
LECTURER	SIR HAZMAN BIN BADRUNSHAM			

ASSESSMENT DETAILS				
TITLE/NAME	ASSIGNMENT			
WEIGHT	15%			
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COURSE OUTCOME	CLO1: Builds knowledge of the PHP language to create a dynamic web page			

STUDENT DETAILS				
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CLASS	L03 – B01			

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INTRODUCTION

For this assignment, I am required to develop an e-commerce application such as Shopee, Lazada, and etc. The app requirements are as follows:

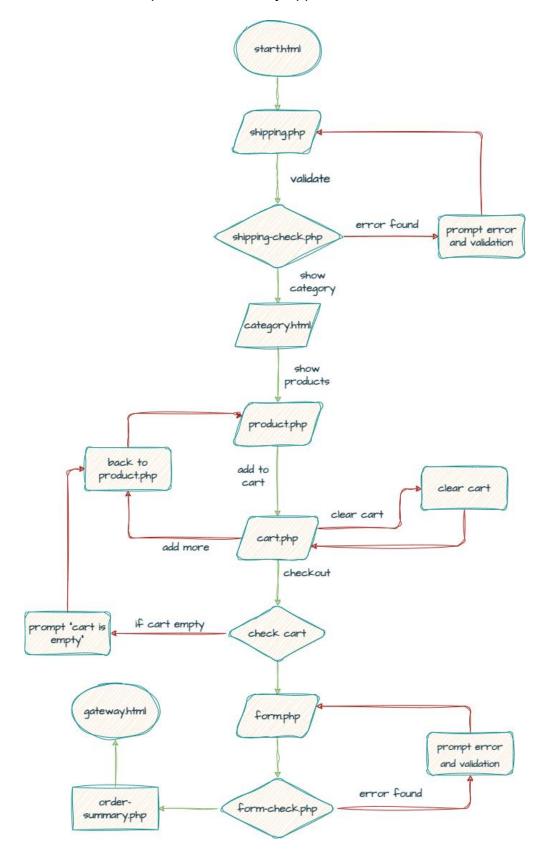
- 1. Buyers are required to choose their home destination. (address of buyers)
- 2. Buyes are required to to buy what they want
 - Show list Of categories. 2.1.
 - 2.2. Show list of products for that type of category. (at least 3 products)
- 3. Buyers are required to choose type of payments.
 - 3.1. Show list of payments. (at least 3 type of payments)
- 4. Buyers are required to fill form details as buyer. (Full name, phone, notes)
- 5. Show home destination, total products, quantity, and total payment for the buyer.

I have decided to create an online watches shop application named NtahTime, taking inspiration from watatime.com and solartime.com websites. NtahTime is a basic user-friendly online store where you can buy watches, wall clocks and accessories. It is a third-party app and does not control the brand of any products. Apart from that, every product is broken down into a variety of categories, such men watches and women watches, to ease users to find what what they're looking for. It has a good UI with good choice of colours making users able to use the app comfortably. Furthermore, this app has the ability to let users put items to cart to make browsing and picking easier. There are also navigation on the left side of the product page so users can move among categories effortlessly. Other than that, NtahTime provides an informative straightforward feedback in a form of validation and errors so the users can solve the problem without frustration.

NtahTime is fully built by using HTML, CSS, and PHP languages and without the use of Javascript, SQL or any other language. This app has a total of 10 pages, excluding 1 stylesheet. The value from the filled form are sent using the post method, which then are stored using session. With session, the code can be written without any complexities as there is no need to repeatedly using post/get method on every page to pass values across pages. Session can store form values on one page, retrieved from on other page. As the app has many pages, it is ideal to use session to store value, including a multidimensional array.

PROJECT FLOW

Flowchart below is a representation of my app's flow:



As mentioned earlier, the app has total of 10 pages. Those pages are;

- > start.html
- > shipping.php
- > shiping-check.php
- category.html
- > product.php
- > cart.php
- > form.php
- > form-check.php
- > order-summary.php
- > gateway.html

START.HTML

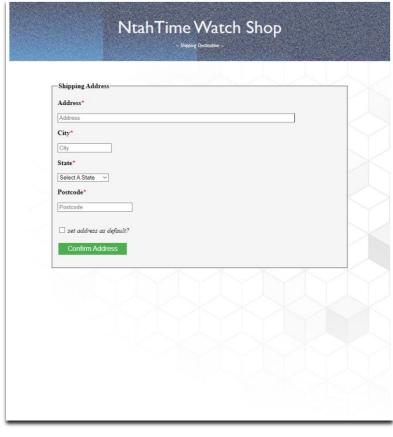


this page only has a clickable app title at the center of the page that will direct users to the next page which is shipping.php

```
    start.html > 
    html
    html
    start.html > 
    start.html >
           <link rel="stylesheet" href="stylesheet.css">
           <title>NtahTime</title>
             <a href="shipping.php" style="text-decoration: none;">
                  <b>NtahTime<br />Watch Shop</b>
```

SHIPPING.PHP & SHIPPING-CHECK.PHP

shipping.php page contains a shipping form for users to enter their home destination. The form will be requesting users' address, city, state, and postcode of their house. The page includes script from shipping-check.php so that the filled value can be validate. With this, the code can be more organised as two of this code can be executed at the same time.



```
shipping.php > 쉾 html > 🛠 head
<?php require("shipping-check.php") ?>
           <title>Shipping Address</title>
<link rel="stylesheet" href="stylesheet.css">
                                                                                         if($address_err != null){
                                                                                                        Address<b style="color:red;">*</input type="text" name="shipping_address" placeholder="Address" size="75" value="<?php echo $shipping_address ?>"></php echo $address_err ?></php echo $address_err ?>
                  ?> <style>.addressErr{display: block}</style>
            if($city_err != null){
                  ?> <style>.cityErr{display: block}</style> <?|</pre>
                                                                                                        <bcity</b><b style="color:red;">*</b>
<input type="text" name="shipping_city" placeholder="City" size="13" value="<?php echo $shipping_city ?>">
           if($state_err != null){
                                                                                                        ?> <style>.stateErr{display: block}</style> <</pre>
           if($postcode err != null){
                  ?> <style>.postcodeErr{display: block}</style:</pre>
                                                                                                         <select name="shipping_state">
<option value="null">Select A State</option>
                                                                                                         <option value="Johor">Johor</option
<option value="Kedah">Kedah</option</pre>
                                                                                                          <option value="Kelantan">Kelantan
                                                                                                         <option value="Kelantan">Kelantan
option value="Melaka">Melaka
option value="Negeri Sembilan">Negeri Sembilan
coption value="Pahang">Pahang
option value="Pahang">Pahang
option value="Pahang">Pahang

                                                                                                         <option value="Perlis">Perlis'>Perlis'</option>
<option value="Pulau Pinang">Pulau Pinang</option>
<option value="Sabah">Sabah</option>
                                                                                                          <coption value="Sarawak">Sarawak

<option value="Selangor">Selangor

<option value="Selangor">Selangor

                                                                                                          <option value="Terengganu">Terengganu</option>
<option value="Kuala Lumpur">Kuala Lumpur</option>
                                                                                                     <?php echo $state_err ?>
                                                                                                        <br/>try<input type="checkbox" name="default"> <i>set address as default?</i><br/>tputton type="submit" class="button" name="confirmed">Confirm Address</button>
```



The page will then prompt all filled value from the shipping from before once all input has passed the validation. This will let users to double check and edit the information they have submitted. If user want to make adjustments, they can click the EDIT button to be redirected back to shipping.php. If user want to proceed, the NEXT button will direct them to the next page.

The code behind shipping-check.php contains script that sends error message to shipping.php if any field were field incorrectly. This validation process will later be briefly explained on the validation implementation. If no error found, each one values will be stored into each one session.

```
$shipping_address = null;
$address_err = null;
$shipping_city = null;
$city_err = null;
$shipping_state = null;
$state_err = null;
$shipping_postcode = null;
$postcode_err = null;
if(isset($_POST['confirmed'])) {
    $shipping_address = $_POST['shipping_address'];
     $shipping_city = $_POST['shipping_city'];
$shipping_state = $_POST['shipping_state'];
     $shipping_postcode = $_POST['shipping_postcode'];
     if(empty(trim($shipping_address))){
    return $address_err = "Address field is empty";
          if(empty(trim($shipping_city))){
               return $city_err = "City field is empty";
                if(!preg\_match("/^[a-zA-Z\s]+\$/", \$shipping\_city))\{
                     return $city_err = "City can only contain letters";
               } else {
                     if($shipping_state=='null'){
                          return $state_err = "Select your state";
                          if(empty(trim($shipping_postcode))){
                          return $postcode_err= "Postcode field is empty";
}else if (!preg_match('/^\d{5}$/', $shipping_postcode)) {
    return $postcode_err = "Postcode should be a 5-digit number";
                         if(empty($address_err) && empty($city_err) && empty($state_err) && empty($postcode_err)) {
                          session_start();
                          $_SESSION['shipping_address'] = $shipping_address;
                          $_SESSION['shipping_city'] = $shipping_city;
$_SESSION['shipping_state'] = $shipping_state;
$_SESSION['shipping_postcode'] = $shipping_postcode;
```

```
💏 shipping-check.php 🛛 🗙
roject > 🤲 shipping-check.php > ...
      <div id="bg">
           <div id="header2">NtahTime Watch Shop</div>
                                    Shipping Destination:<br /><br />
                                   <b><?php echo $shipping address . ',' ?><
cp><b><?php echo $shipping_city . ', ' . $shipping_state . ',' ?></b>
<b><?php echo $shipping_postcode ?></b><br/>/>
```

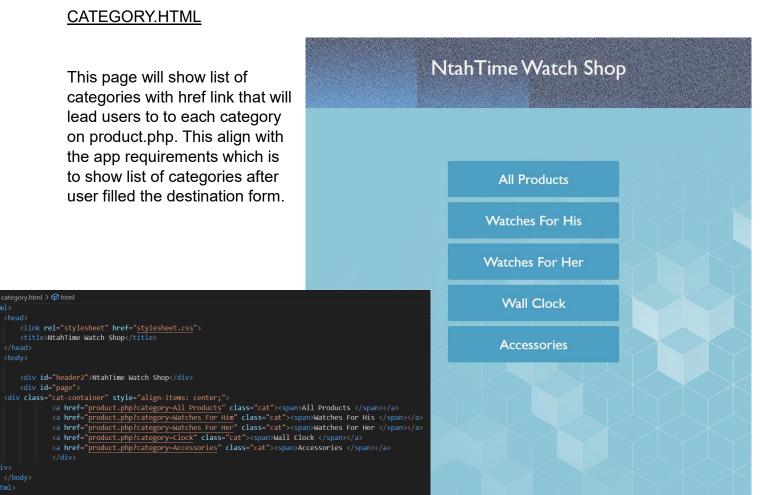
Once there are no errors, the code above will be executed, showing the filled data to the users.

CATEGORY.HTML

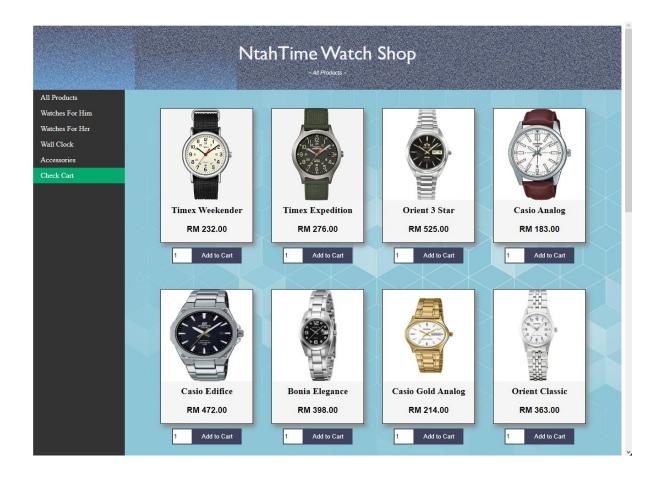
<title>NtahTime Watch Shop</title>

<div id="header2">NtahTime Watch Shop</div>

This page will show list of categories with href link that will lead users to to each category on product.php. This align with the app requirements which is to show list of categories after user filled the destination form.



PRODUCT.PHP



This page will show list of product for user to browse and pick item. It has an add to cart button along with quantity box under each item so users can easily add item and how many they wanted into cart. The quantity box is set as type=number, avoiding conflicts with any accidental typo. It is also being set to only accept 1 to 30, wont allow any lower than 1 and higher than 30. With these, there will be no need for validation in this part. Navigation menu are provided at the left side of the page to ease user navigating among categories, also checking cart. The category's name will be shown below the title on header so the user knows which section is they're on. Once user clicked the add to cart button, all information of the chosen item will be send using method post to cart.php, as well as user will be directed to cart.php. User may come back to this page to add more product into cart. User can also add item from different categories into the same cart.

All product information such as name, image, and price are declared in multidimensional array to be broken down into variety of categories.

The function below are using foreach to show list of product for each category along with add to cart button and quantity box.

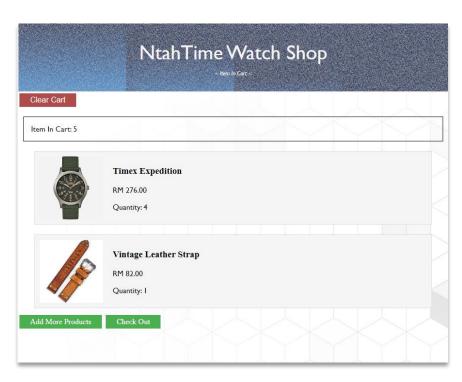
```
Sreferences
function displayProducts($category, $products) {
    foreach($products[$category] as $product) {
        echo '<div class="product">';
        echo '<div class="product["picture"].'" alt="'.$product["name"].'">';
        echo '<ha>'<ha>',$product["name"].'<ha>';
        echo '<ha>',$product["name"].'<ha>';
        echo '<anput type="hidden" name="product_name" value="'. $product['name'].'">';
        echo '<anput type="hidden" name="product_price" value="'. $product['picture'].'">;
        echo '<anput type="hidden" name="product_price" value="'. $product['picture'].'">;
        echo '<anput type="number" name="product_quantity" value="1" min="1" max="30" class="quantity80x"><button type="submit" name="add-to-cart">Add to Cart</button>';
        echo '<alput type="number" name="product_quantity" value="1" min="1" max="30" class="quantity80x"><button type="submit" name="add-to-cart">Add to Cart</button>';
        echo '<alput type="number" name="product_quantity" value="1" min="1" max="30" class="quantity80x"><button type="submit" name="add-to-cart">Add to Cart</button>';
        echo '<alput type="number" name="add-to-cart">Add to Cart</a>
Sategory = isset($_GET['category']) ? $_GET['category'] : 'All Products';

}
```

This code will use displayProducts() to show the products depending on categories.

CART.PHP

This page will show a list of chosen item and total item in cart. The button Add More Products can redirect users back to product.php to add more items into cart. The values posted from product.php are now being stored into cart multidimensional array. It is then being stored into session[cart] so that when user navigate back to product, the value in cart wont be lost due to the page reloads. User can easily clear cart with the intended button.



```
if(isset($_POST["clear_cart"])){
    $cart = array();
    unset($_SESSION["cart"]);
    header("Location: cart.php");
    exit;
}
```

Code for clearing cart array once the clear_cart button were clicked

The checkout button would direct user to the form.php page. However, if user were to checkout with an empty cart, a message will be prompted telling user the cart is empty. Also provides button for user to browse back to product.php

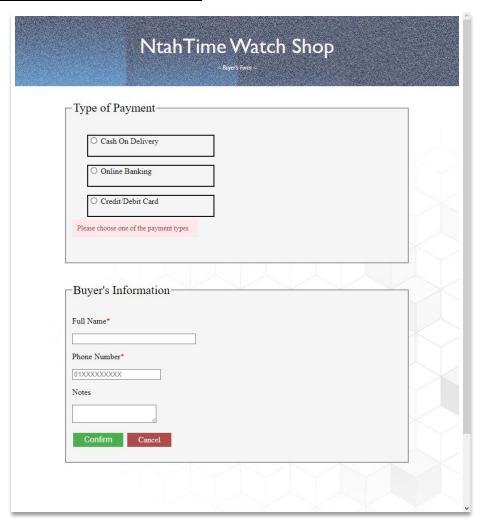


This code is to avoid any duplication happens when user added the same product at the different time. If the existed item were added, it should only add up the quantity of the item. With this, cart preview wont be messy with a bunch of unnecessary item duplication.

The posted product information from product.php will be stored into array session[cart]. Also same as the product.php, this page will also use foreach to show list of chosen products.

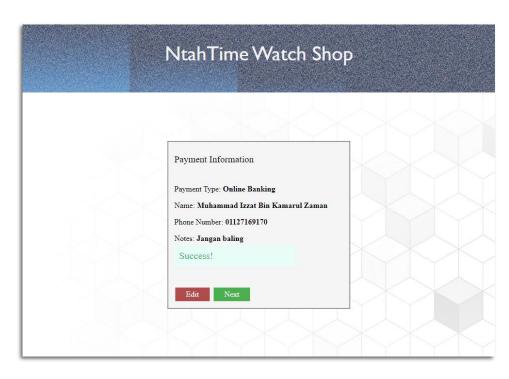
```
session_start();
if(isset($_SESSION["cart"])) {
    $cart = $_SESSION["cart"];
} else {
    $cart = array();
if(isset($ POST["add-to-cart"])){
    $product name = $ POST["product name"];
    $product_price = $_POST["product_price"];
    $product_picture = $ POST["product_picture"];
    $product quantity = $ POST["product quantity"];
    $cart item = array(
        "product name" => $product name,
        "product price" => $product price,
        "product picture" => $product_picture,
        "product_quantity" => $product_quantity,
    );
```

FORM.PHP & FORM-CHECK.PHP



form.php is a page with buyer's form. The page will requires user to choose a payment type, enter their full name, phone number, and notes. Similar to shipping.php, this page is alos sharing script with form-check.php for validation and errors detection. User can navigate back to cart.php with the Cancel button. Otherwise, user can proceed.

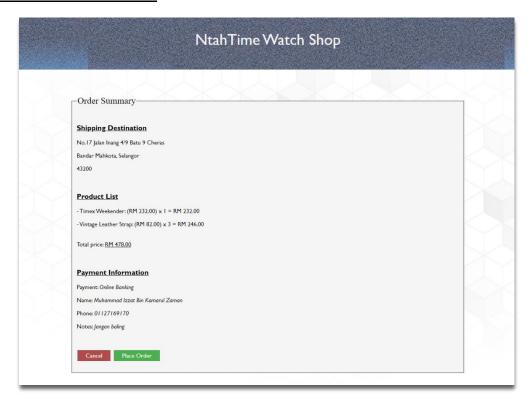
The page will then prompt back the submitted value for users to make changes and double check. Users can then proceed to next page which is ordersummary.php



All posted values will then be stored into each session once there are no error found.

```
if(empty($paymentType err) && empty($buyerName err) && empty($phone err)) {
   $ SESSION['paymentType'] = $paymentType;
   $_SESSION['buyerName'] = $buyerName;
   $_SESSION['phone'] = $phone;
   $_SESSION['notes'] = $notes;
```

ORDER-SUMMARY.PHP



This page will view the summary of all submitted information to users before placing orders. Users may cancel and will be redirected back to cart.php. If everything is good, users may place order and be directed to gateway.php.

```
session_start();
if(isset($_SESSION["cart"])) {
   $cart = $_SESSION["cart"];
    $cart = array();
$shipping_address = $_SESSION["shipping_address"] ?? "";
$shipping_city = $_SESSION["shipping_city"] ?? "
$shipping_state = $_SESSION["shipping_state"] ?? "";
$shipping_postcode = $_SESSION["shipping_postcode"] ?? "";
$paymentType = $_SESSION["paymentType"] ?? "";
$buyerName = $_SESSION["buyerName"] ?? "";
$phone = $_SESSION["phone"] ?? "";
$notes = $_SESSION["notes"] ?? "";
$cart = $_SESSION["cart"] ?? [];
$total_price = 0;
foreach ($cart["product_price"] ?? [] as $pricekey => $price) {
    $total_price += $price * ($cart["product_quantity"][$pricekey] ?? 0);
```

This page will retrieve all information from stored session. Those informations are shipping destination, cart with product array, and payments information. It would also calculate the total price of all product to tell user the amount to pay.

GATEWAY.HTML

Finally, this page will just show a text as there are no payment gateway integrated to this application. Also providing href button to Rollback From Start on start.html

PAYMENT GATEWAY IN PROCESS

End of Coding

author -- izzat kz

Rollback From Start

```
<html>
<link rel="stylesheet" href="stylesheet.css">
<title>Gateway PROCESS</title>
<div id="bg">
<b>PAYMENT GATEWAY<br />IN PROCESS</b>
 <b>End of Coding</b>
 <i>author -- izzat kz</i>
 </div>
 <div id="centered-title2">
 <a href="start.html" class="buttonRed">Rollback From Start</a>
</div></div>
/body>
/html>
```

IMPLEMENTATION

The assignment has also requested a few required implementations as follows;

- 1) Input validation
- 2) Requirement logic;
 - Switch-case / if-else
 - Calculation
 - Function with a return value
- 3) Multiple files
- 4) Redux
- 5) Sticky form

INPUT VALIDATION

The page that applying the input validation are shipping destination form (shipping.php & shipping-check.php) and buyer's form (form.php & form-check.php). The two in two of these are sharing script. As below, shipping.php sharing script with shipping-check.php to send the field value so that shipping-check can validate and sending back error message.

shipping.php ↓

```
cform action="shipping.php" method="post" autocomplete="off">
t class="fieldAdd">class="fieldAdd">class="fieldAdd">class="fieldAdd">class="fieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAdd">class="rieldAddress"}class="rieldAddress">class="rieldAddress">class="rieldAddress">class="rieldAddress">class="rieldAddress">class="rieldAddress">class="rieldAddress">class="rieldAddress">class="rieldAddress">class="rieldAddress">class="rieldAddress">class="rieldAddress">class="rieldAddress">class="rieldAddress">class="rieldAddress">class="rieldAddress">class="rieldAddress">class="rieldAddress">class="rieldAddress">class="rieldAddress">class="rieldAddress">class="rieldAddress">class="rieldAddress">class="rieldAddress">class="rieldAddress">class="rieldAddress">class="rieldAddress">class="rieldAddress">class="rieldAddress">class="rieldAddress">class="rieldAddress">class="rieldAddress">class="rieldAddress">class="rieldAddress">class="rieldAddress">class="rieldAddress">class="rieldAddress">class="rieldAddress">class="rieldAddress
```

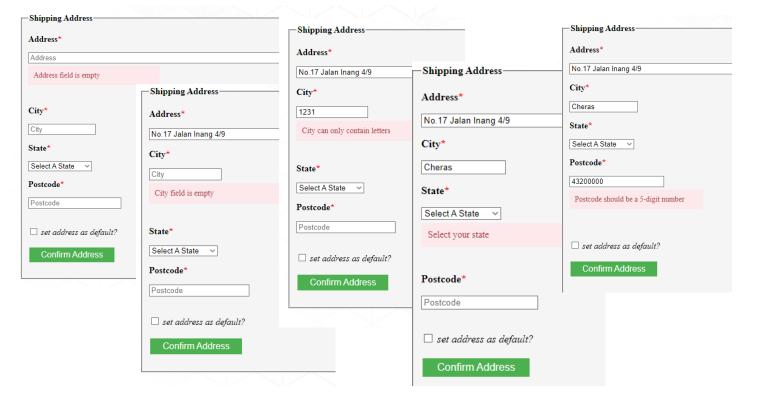
As you can see in above, the error message are echoed under every field. Each error message will executes each own validation. If there are no validation made yet, it wont show the message. Notice that the form action are directing to itself as the script from shipping.php and shipping-check.php can be executed at the same time. The shipping.php will contain the form and the shipping-check.php will contain all handling script for the form. It can be made into one page but with this, code may be organized and easy to maintenance.

```
$shipping_address = null;
$shipping_city = null;
$city_err = null;
 $shipping_state = null;
$state err = null;
 $shipping_postcode = null;
       $shipping_address = $_POST['shipping_address'];
       $shipping_city = $_POST['shipping_city'];
$shipping_state = $_POST['shipping_state']
      $shipping postcode = $ POST['shipping postcode'];
       if(empty(trim($shipping_address))){
    return $address_err = "Address field is empty";
             if(empty(trim($shipping_city))){
    return $city_err = "City field is empty";
                   if(!preg_match("/^[a-zA-Z\s]+$/", $shipping_city)){
    return $city_err = "City can only contain letters";
                          if($shipping_state=='null'){
                                return $state_err = "Select your state";
                                if(empty(trim($shipping_postcode))){
    return $postcode_err= "Postcode field is empty";
                                return $postcode_err= "Postcode field is empty";
}else if (!preg_match('/^\d{5}$/', $shipping_postcode)) {
   return $postcode_err = "Postcode should be a 5-digit number";
                              if(empty($address_err) && empty($city_err) && empty($state_err) && empty($postcode_err)) {
                                session start();
                                $_SESSION['shipping_address'] = $shipping_address;
$_SESSION['shipping_city'] = $shipping_city;
$_SESSION['shipping_state'] = $shipping_state;
$_SESSION['shipping_postcode'] = $shipping_postcode;
                                       echo '';
```

← shipping-check.php

This page would initialized all field and error variables. Using if(isset), the each variable will be fill with the value posted earlier. Next, it will use if else statement to validate the field. The process should go through one by one to make the form looks neat even with error. The if(empty) were used to check if the field were empty, returning error message. The if(!preg match) are then used to check if the value field has any errors or not following the format for the field, also returning error message. If everything is alright, all field values will be stored into each session.

These are the preview when the validation process are executed every click.

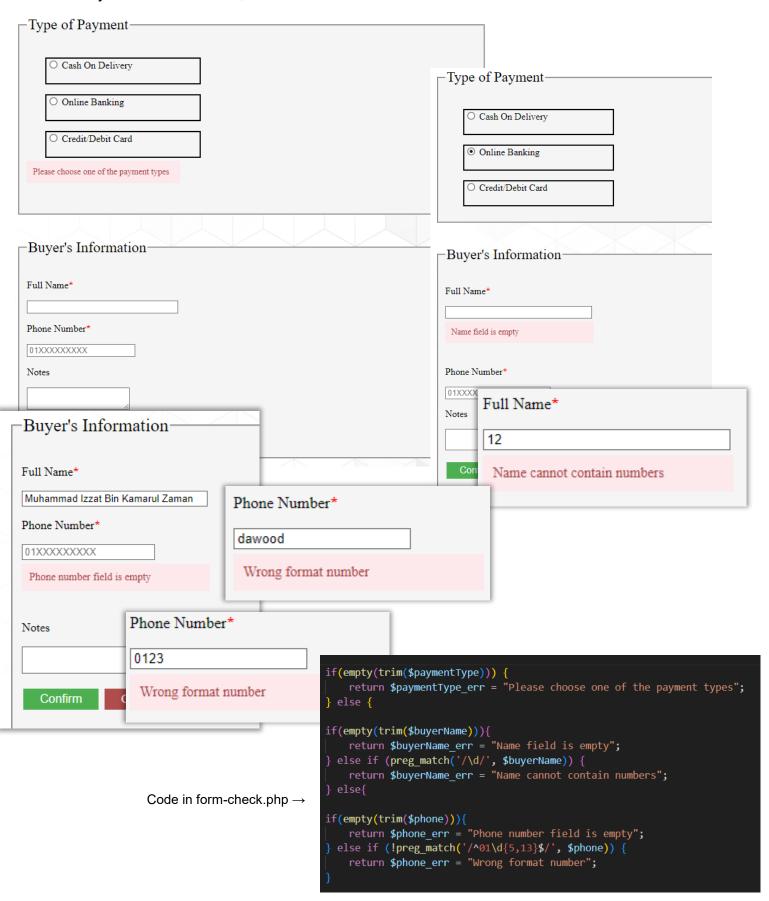


↑ shipping-check.php

Once all field has passed the validation and stored into session, a success message will show up along with the filled value to the user.

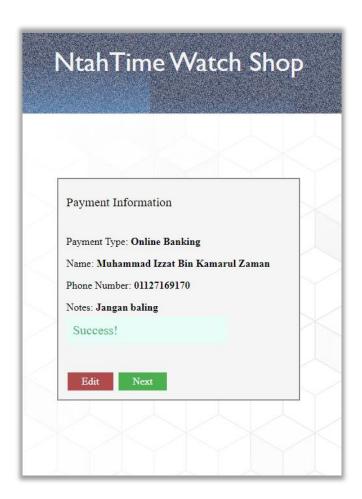


The process are similar to form.php and form-check.php, these are the previews for buyer's form validation;



form.php \rightarrow

Once all field passed the validation, the success message will show up along with submitted information for user to double check



REQUIREMENT LOGIC

a) If-else statement

As shown in input validation, if-else were implemented in shipping-check.php and form-check.php to check the value form field value to validate and returning error message. Apart from that, if-else are also used in cart.php to declare cart array and to check item in cart for duplication. It is also exist in order-summary.php to recall the cart array from session. Apart from that, also implemented in product.php

```
if(isset($_SESSION["cart"])) {
    $cart = $_SESSION["cart"];
} else {
    $cart = array();
}
```

← cart.php & order-summary.php (declaring cart array in session)

cart.php →
(checking cart to avoid any item duplication in cart)

```
/ Check if item already exists in the cart
$item_index = -1;
foreach($cart as $index => $item) {
    if($item["product_name"] == $product_name) {
        $item_index = $index;
        break;
    }
}

// If item exists, update its quantity
if($item_index != -1) {
        $cart[$item_index]["product_quantity"] += $product_quantity;
} else {
    // If item does not exist, add it to the cart
    array_push($cart, $cart_item);
}

$_SESSION["cart"] = $cart;
```

```
if($category == 'All Products') {
        echo '<div id="content">';
        displayProducts('Watches For Him', $products);
        displayProducts('Watches For Her', $products);
        displayProducts('Accessories', $products);
        displayProducts('Clock', $products);
        echo '</div>';
    } else {
        echo '<div id="content">';
        displayProducts($category, $products);
        echo '</div>';
    }
}
```

← product.php (displaying products for each different category)

b) Calculation

product of all items)

\$total quantity = 0;

The calculation implemented on this application is just on cart.php to calculate the total item quantity in cart, and in order-summary.php to calculate the total price of an item and total price for all subtotal.

c) Function with a return value

Function has been implemented in product.php to display product list array depending on category.

product.php →

(function to display different products from array for different categories)

```
function
displayProducts($category, $products) {
    foreach($products[$category] as $product) {
        echo '<form method="post" action="cart.php">';
        echo '<div class="product">';
        echo '<div class="box">';
        echo '<img src="image/'.$product["picture"].'" alt="'.$product["name"].'">';
        echo '<h3>'.$product["name"].'</h3>';
        echo 'RM '.$product["price"].'';
        echo '<input type="hidden" name="product_name" value="'. $product['name'].'">';
        echo '<input type="hidden" name="product_price" value="'. $product['price'].'">';
        echo '<input type="hidden" name="product_pricture" value="'. $product['picture'].'">';
        echo '<input type="hidden" name="product_quantity" value="1" min="1" max="30" class="quantity" value="1" min="1" max="1" max=
```

```
if($category == 'All Products') {
    echo '<div id="content">';
    displayProducts('Watches For Him', $products);
    displayProducts('Watches For Her', $products);
    displayProducts('Accessories', $products);
    displayProducts('Clock', $products);
    echo '</div>';
} else {
    echo '<div id="content">';
    displayProducts($category, $products);
    echo '</div>';
} echo '</div>';
}
```

← product.php (function called for displaying products for each different category)

MULTIPLE PAGE

This application has a total of 10 pages, excluding stylesheet.css

```
✓ project
> image
☆ cart.php
◇ category.html
☆ form-check.php
❖ form.php
◇ gateway.html
❖ order-summary.php
❖ product.php
❖ shipping-check.php
❖ shipping.php
❖ start.html
# stylesheet.css
```

REDUX

Redux occurs a lot in three pages which is cart.php, shipping-check.php, and in form-check.php. Occasionally exist when button were clicked for intended purposes. These are some of the examples;

```
if(isset($ POST["add-to-cart"])){
    $product_name = $_POST["product_name"];
   $product_price = $_POST["product_price"];
   $product_picture = $_POST["product_picture"];
   $product_quantity = $_POST["product_quantity"];
   $cart_item = array(
        "product_name" => $product_name,
        "product price" => $product price,
       "product_picture" => $product_picture,
        "product_quantity" => $product_quantity,
```

```
← cart.php
```

(add to cart button clicked for retrieving the product's information from product.php)

```
if(isset($ POST["clear cart"])){
   $cart = array();
   unset($_SESSION["cart"]);
   header("Location: cart.php");
```

← cart.php

(clear cart button clicked for clearing cart and resetting cart array to zero)

STICKY FORM

This implementation is used on both form in shipping.php and form.php

form.php ↓

NtahTime \	Watches	Shop	Applia	cation
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THANK YOU

I've took time and enjoyed a lot during the development of this application.