ASSIGNMENT 2 FRONT SHEET

Qualification	BTEC Level 5 HND Diploma in Computing		
Unit number and title	10: Website Design & Development		
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Re-submission Date		Date Received 2nd submission	
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Student declaration

I certify that the assignment submission is entirely my own work and I fully understand the consequences of plagiarism. I understand that making a false declaration is a form of malpractice.

	Student's signature	*Hoang Anh Tuan*

Grading grid

P5	P6	P7	M4	M5	D2	D3

✿ Summative Feedback:		✿ Resubmission Feedback:	
Grade:	**Assessor Signature:**		**Date:**
Signature & Date:			

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I. Create design document (P5)

1. Client and user requirement analysis

- Requirements and analysis of user requests for the website:

- Beautiful and eye-catching interface, impressing customers. Use mainly blue and white tones.

- The website should have high image quality and a certain smoothness.

- Do not show advertisements for other services.

- Information about the shop's items is regularly updated on the website.

- Optimize shopping function to make it easy for customers to order, view shopping cart and view detailed product information.

- There are registration, login and logout functions for user.

- Users can easily search for products on the website.

- The site manager can take stock of orders and easily process them.

- The website system can function when there are many visits.

- Users can contact the client.

2. Use case Diagram
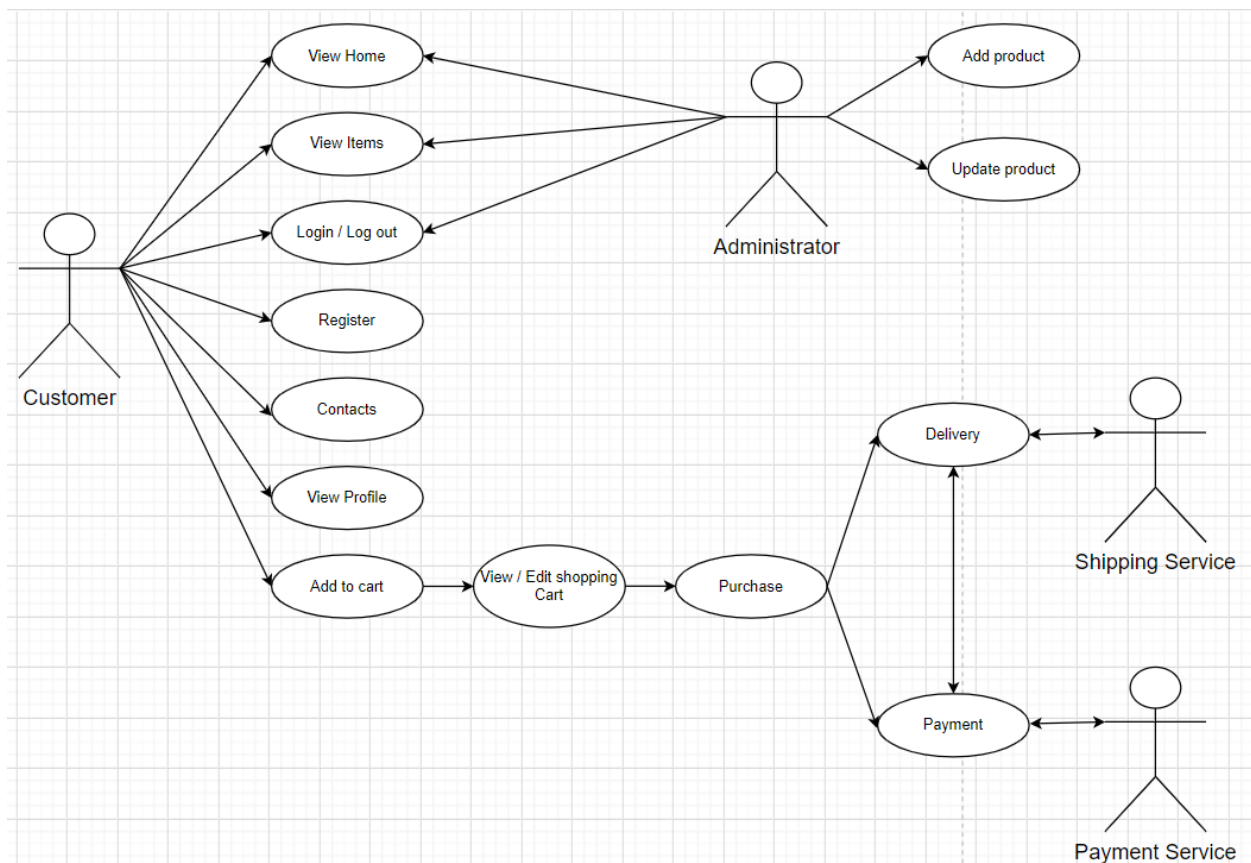
Figure 1. Use Case Diagram

A use case diagram is the most common representation of system/software parameters for an undeveloped software application. The desired action (what) is defined in use cases, not the actual way of achieving it (how). Once established, use cases can be represented both textually and visually (i.e. use case diagram). A core principle in use case modeling is that it assists one in designing a device from the viewpoint of the end user. It's a good way to communicate system behaviour to users in their own words by defining all publicly observable system behavior.

3. Database Diagram
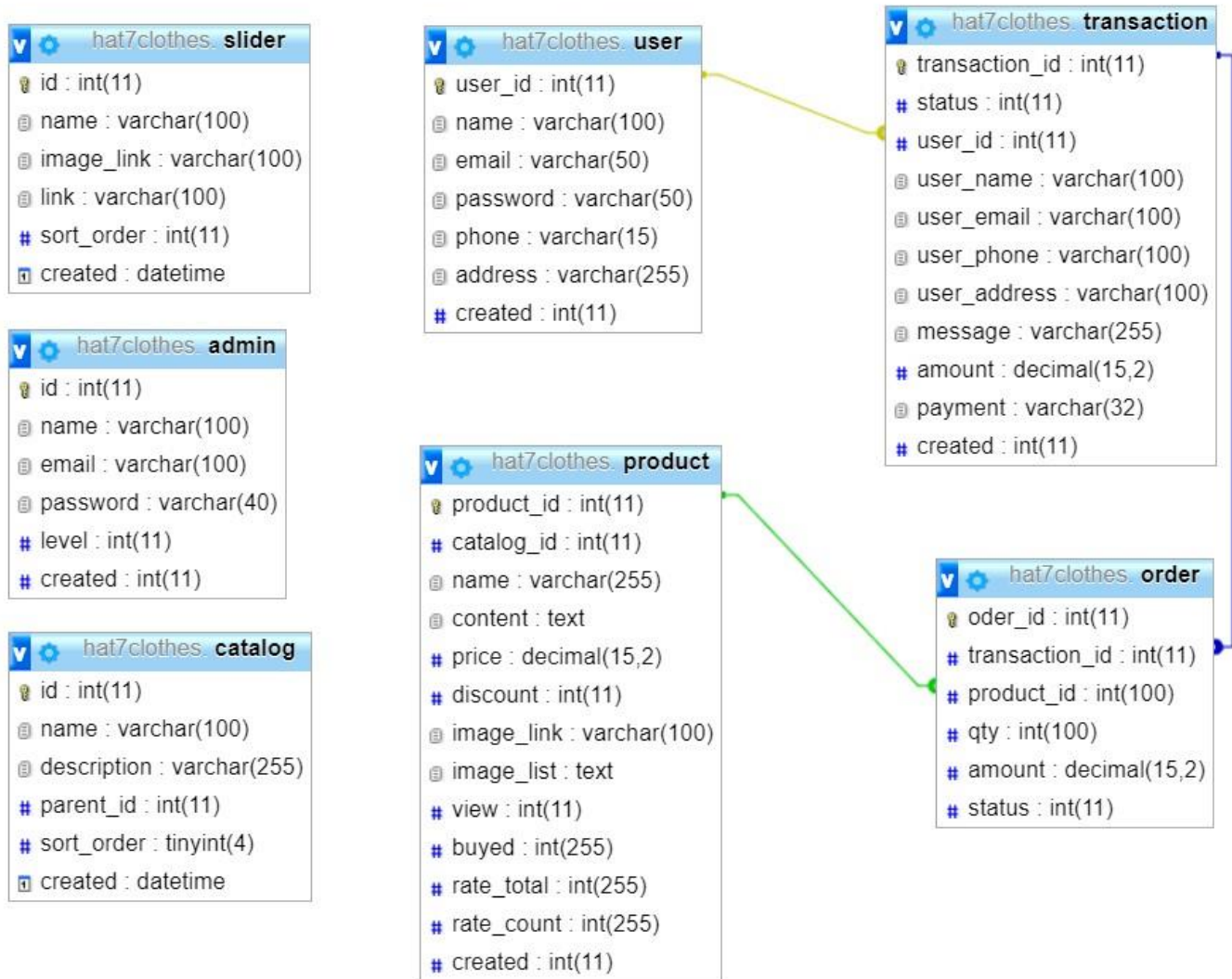
Figure 2. Database Diagram

4. Site Map

A sitemap is a diagrammatic representation of a hierarchical system. It usually depicts the parent-sibling relationship between pages in a website, showing how sub pages might be arranged underneath their parent groupings. This arrangement forms a map of the site.

Figure 3. Site Map

5. Wire frames and specific explanation

Wireframe is a high contrast line drawing that can be utilized in website architecture to give partners a visual portrayal of site page's design just as data engineering. It use various sizes of boxes to show elements of a webpage like header, footer,… It is usually the first step of the proccess.

5.1 Home page

This is the landing page, also known as the homepage of the website. After the user enters the address of the website in the search bar, this will be the first page to appear.
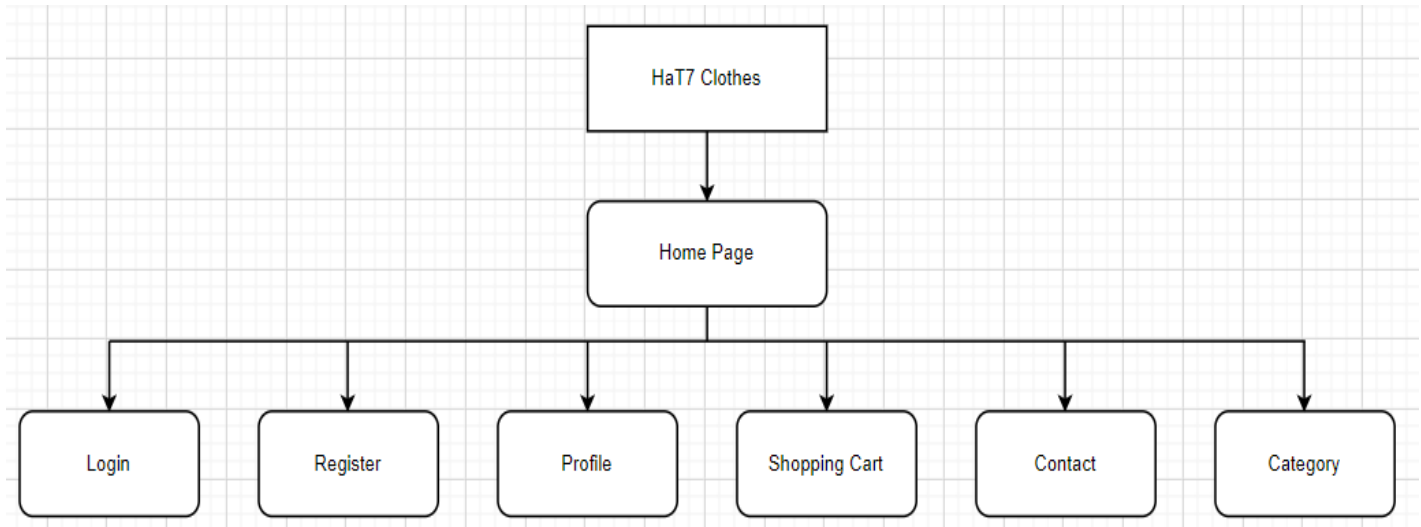
The homepage will consist of three parts:

- **Header:** The first section includes the store logo, menu bar, slider advertising about the store.
- **Body**: the body will be the display of new products, best-selling products, multi-view products of the store, each section will have 4 products, each product will have pictures, price of each product and a button for the user to add products to the cart. There is also a search section to help users search for products.
- **Footer**: The bottom section will be the footer, including some information about the store.

The menu bar contains a collection of links to different pages on the website including information about new products, best-selling products, promotional products, pages for users to contact customers, shopping cart, login (if logged in, it will be a navigation menu to view login or logout account information) and a navigation menu for users to view men's, women's or clothing products. The menu is designed to be easy on the eyes, helping users.

Footer will include information for user support along with customer phone number. There are also some items like us, for buyers, for sellers for the purpose of linking up with other business sources. And finally there will be some basic information such as addresses, phone numbers, social networking sites for users to contact and search about the store.

Figure 4. Home page wireframe

5.2 Login page

Figure 5. Login page wireframe

Login page is where users log in to log in before making purchases. The login page is divided into three parts:

- **Header:** The first section includes the store logo, menu bar.
- **Body:** The body consists of a simple design including a place for users to enter their email and account password to log into the system. If the user does not have an account, there will be a registration button near the login button that will lead the user to the registration page.
- **Footer:** The bottom section will be the footer, including some information about the store.

5.3 Register page

Figure 6. Register page wireframe

Register page is where users log in to log in before making purchases. The login page is divided into three parts:

- **Header:** The first section includes the store logo, menu bar.
- **Body:** The body consists of a simple design that includes a place for the user to enter their email, password, re-enter their password, address and phone number. Then there will be a signup button for users to complete the steps to register an account to purchase on the website.
- **Footer:** The bottom section will be the footer, including some information about the store.

5.4 Contact page

Figure 7. Contact page wireframe

This contact page is intended for users to send their comments and questions directly to customers. This contact page is divided into two parts:

- Users can also easily search for the store's address through a small google map on the left side of the website.
- The right part will be the place for the user to enter their name, last name, phone number, country and what the user wants to send to the customer. At the bottom will be a submit button for users to complete submitting comments and questions to customers. Users can also return to the main page with the Cancel button on the same line as the submit button.

5.5 Profile page
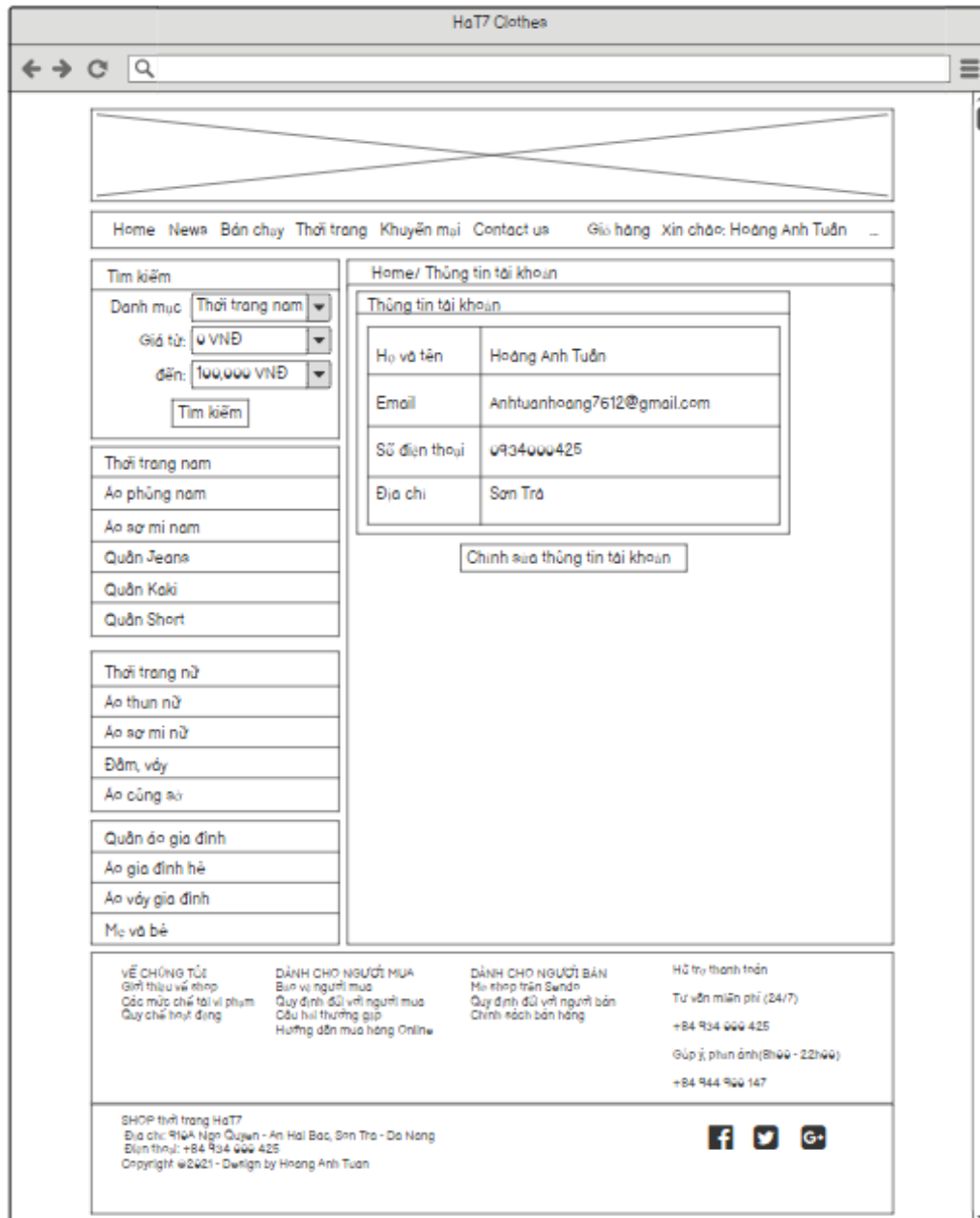
Figure 8. Profile page wireframe

This profile page is for the purpose of the user can view the information of the logged-in account. This profile page has three sections:

- **Header:** The first section includes the store logo, menu bar.
- **Body:** The body consists of information about the logged-in account such as first and last name, email, phone number and address. There is also a search section to help users search for products.
- **Footer:** The bottom section will be the footer, including some information about the store.

5.6 Cart Page

Figure 9. Cart Page writeframe

This shopping cart page is intended for the user to perform shopping operations such as viewing, selecting product quantities, deleting products or placing an order. This profile page has three sections:

- **Header:** The first section includes the store logo, menu bar.
- **Body:** The body consists of a place where users can view the number of selected products, product name, product image, adjust the quantity of the product, the amount corresponding to the number of products. User can delete individual products or delete all selected products. Users can also view the total amount of purchases and orders. There is also a search section to help users search for products.
- **Footer:** The bottom section will be the footer, including some information about the store.

II. Functional screen shot after implementation (P6)

1. Home Page
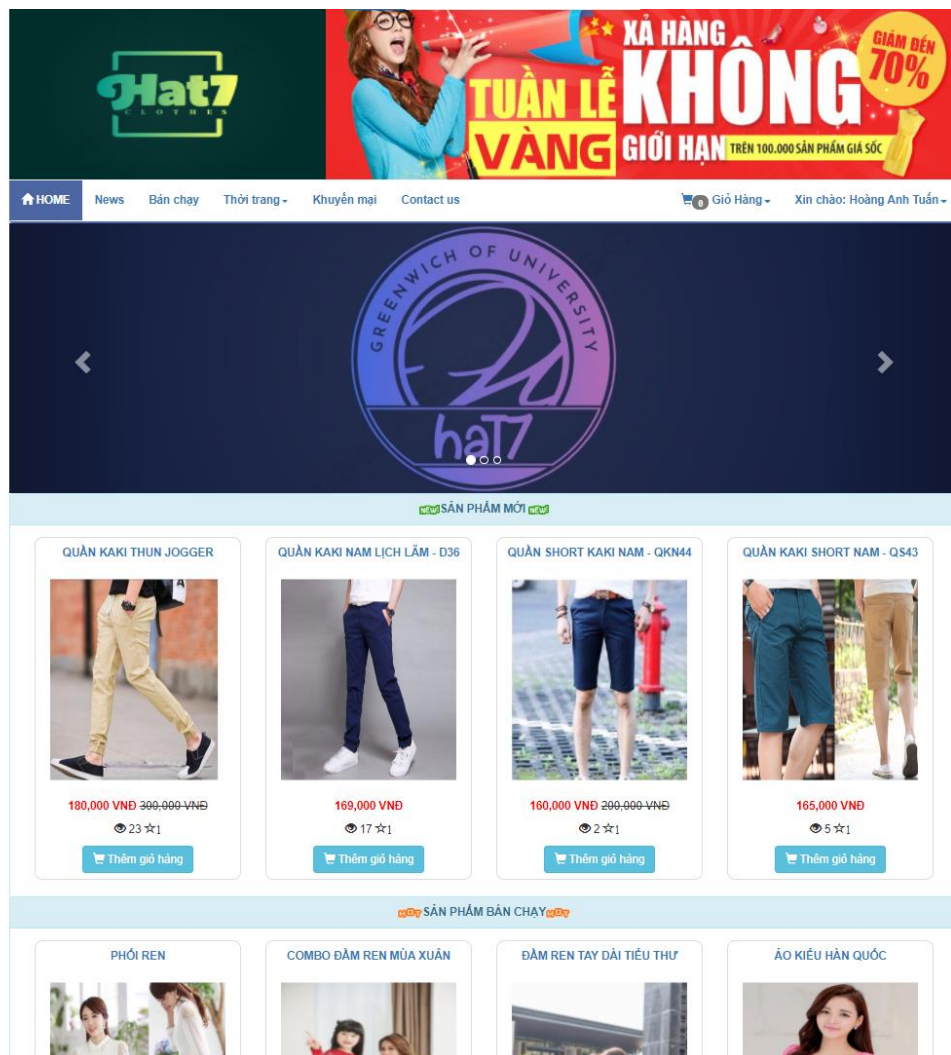
Figure 10. Home page 1
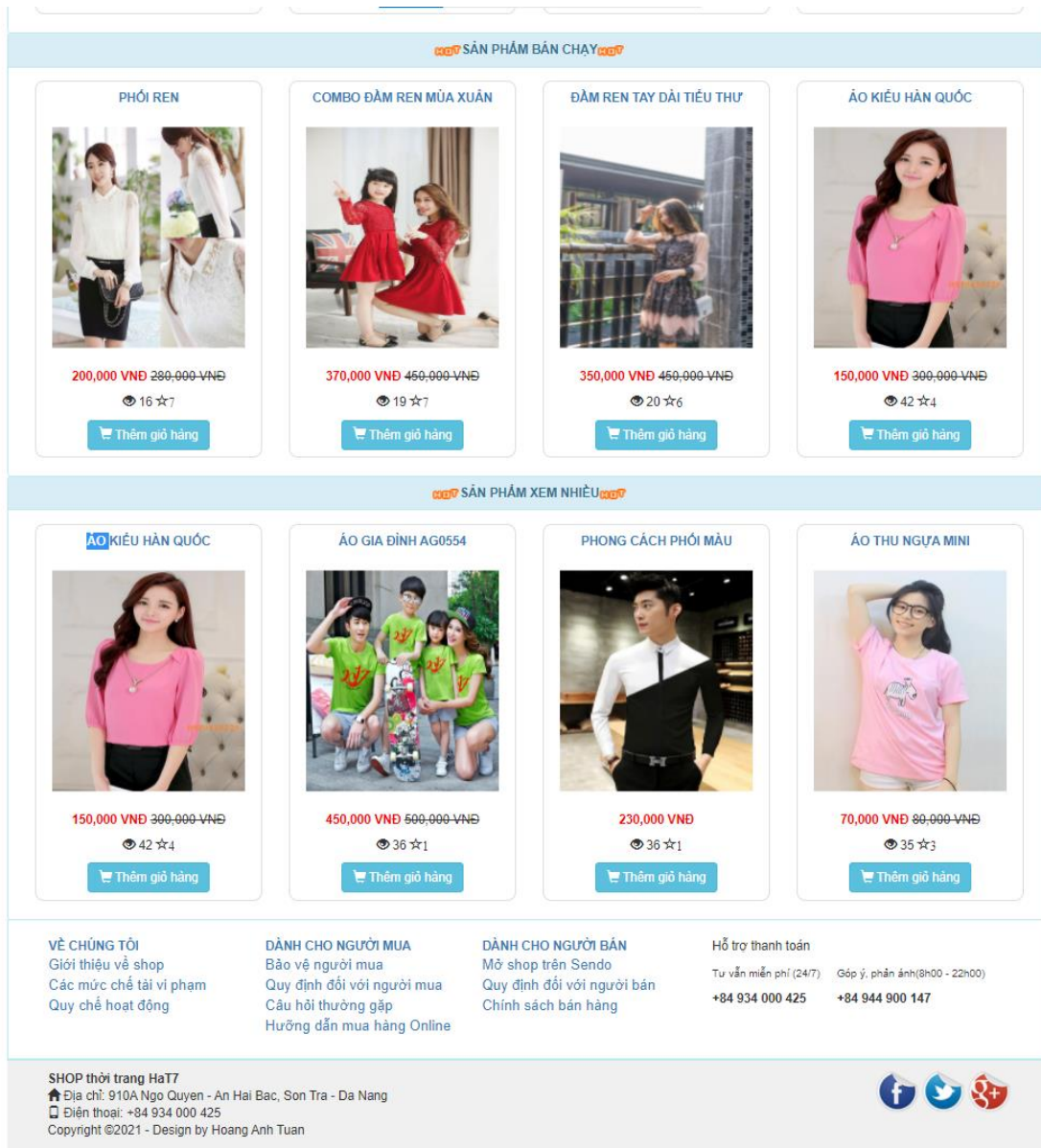
Figure 11. Home page 2

The home page has functions such as adding products to the shopping cart, the menu bar contains a collection of links to different pages on the website and a footer that includes some information about the store. The body of the home page has the function of showing off products.

Under each product, there will be a button so the user can add that product to the shopping cart. The menu bar contains a collection of links to different pages on the website including information about new products, best-selling products, promotional products, pages for users to contact customers, shopping cart, login (if logged in, it will be a navigation menu to view login or logout account information) and a navigation menu for users to view men's, women's or clothing products. The menu is designed to be easy on the eyes, helping users.

Footer will include information for user support along with customer phone number. There are also some items like us, for buyers, for sellers for the purpose of linking up with other business sources. And finally, there will be some basic information such as addresses, phone numbers, social networking sites for users to contact and search about the store.

♦ **Menu functions**

```php
<div class="collapse navbar-collapse re-navbar-collapse" id="bs-example-navbar-collapse-1">
  <ul class="nav navbar-nav">
    <li class="active"><a href="<?php echo base_url(); ?>">
    <span class="glyphicon glyphicon-home" aria-hidden="true"></span> HOME<span class="sr-only">(current)</span></a></li>

    <li><a href="<?php echo base_url('moi'); ?>">News</a></li>
    <li><a href="<?php echo base_url('ban-chay'); ?>">Bán chạy</a></li>
    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown" role="button" aria-haspopup="true" aria-expanded="false">Thời trang
      <span class="caret"></span></a>
      <ul class="dropdown-menu" id="re-dropdown-menu">
      <?php foreach ($catalog as $value)
       {
            $name = covert_vi_to_en($value->name);
            $name = strtolower($name);
       ?>
        <li><a style="color: #337ab7;padding: 10px 20px;" href="<?php echo base_url($name.'-c'.$value->id); ?>">
          <?php echo $value->name; ?></a></li>
      <?php } ?>
      </ul>
    </li>
    <li><a href="<?php echo base_url('khuyen-mai'); ?>">Khuyến mại</a></li>
    <li><a href="Contact.php">Contact us</a></li>
  </ul>
  <ul class="nav navbar-nav navbar-right">
    <?php $this->load->view('site/cart/cart_sh'); ?>
```

Figure 12. Menu functions code 1

```php
    <?php if (!isset($user)) { ?>
        <li><a href="<?php echo base_url('dang-nhap'); ?>">Đăng nhập</a></li>
    <?php }else{ ?>
        <li class="dropdown">
          <a href="#" class="dropdown-toggle" data-toggle="dropdown" role="button" aria-haspopup="true" aria-expanded="false">Xin chào:
           <?php echo $user->name; ?><span class="caret"></span></a>
          <ul class="dropdown-menu">
            <li><a href="<?php echo base_url('user'); ?>">Tài khoản</a></li>
            <li role="separator" class="divider"></li>
            <li><a href="<?php echo base_url('user/logout'); ?>">Đăng xuất</a></li>
          </ul>
        </li>
    <?php } ?>
  </ul>
</div><!-- /.navbar-collapse -->
```

Figure 13. Menu functions code 2

♦ **Show products on page**

```
<div class="row">
    <div class="panel panel-info">
        <div class="panel-heading">
            <h3 class="panel-title text-center"><img src="<?php echo base_url(); ?>upload/icon/new.gif" alt="">
            <a href="<?php echo base_url('product/news'); ?>" class='product_title'>Sản phẩm mới </a><img src="<?php echo base_url(); ?>
            upload/icon/new.gif" alt=""></h3>
        </div>
        <div class="panel-body">
            <div class="col-xs-12 col-sm-12 col-md-12 col-lg-12 clearpadding">
                <?php foreach ($new_product as $value) {
                    $name = covert_vi_to_en($value->name);
                    $name = strtolower($name);
                    ?>
                    <div class="col-xs-12 col-sm-6 col-md-3 col-lg-3">
                        <div class="product_item">
                            <p class="product_name" ><a href="<?php echo base_url($name.'-p'.$value->id); ?>" ><?php echo $value->name; ?></a></p>
                            <div class="product-image">
                                <a href="<?php echo base_url($name.'-p'.$value->id); ?>"><img src="<?php echo base_url(); ?>upload/product/
                                    <?php echo $value->image_link; ?>" alt="" class=""></a>
                            </div>
                            <?php if ($value->discount>0) {
                                $new_price = $value->price - $value->discount; ?>
                                <p><span class='price text-right'><?php echo number_format($new_price); ?> VNĐ</span>
                                    <del class="product-discount"><?php echo number_format($value->price); ?> VNĐ</del></p>
                            <?php }else{ ?>
                                <p><span class='price text-right'><?php echo number_format($value->price); ?> VNĐ</span></p>
                            <?php   } ?>
                            <p><span class="glyphicon glyphicon-eye-open" aria-hidden="true" title="Số lượt xem"></span>
                            <?php echo $value->view; ?> <span class="glyphicon glyphicon-star-empty" aria-hidden="true" title="Số lượng đặt mua">
                            <?php echo $value->buyed; ?></p>
                            <a href="<?php echo base_url('cart/add/'.$value->id); ?>"><button class='btn btn-info'>
                                <span class="glyphicon glyphicon-shopping-cart" aria-hidden="true"></span> Thêm giỏ hàng</button></a>
                        </div>
                    </div>
                <?php } ?>
            </div>
        </div>
    </div>
</div>
```

Figure 14. Show products on page code 1

```
<div class="row">
    <div class="panel panel-info">
        <div class="panel-heading">
            <h3 class="panel-title text-center"><img src="<?php echo base_url(); ?>upload/icon/hot.gif" alt="">
            <a href="<?php echo base_url('ban-chay'); ?>" class='product_title'>Sản phẩm bán chạy</a><img src="<?php echo base_url(); ?>
            upload/icon/hot.gif" alt=""></h3>
        </div>
        <div class="panel-body">
            <div class="col-xs-12 col-sm-12 col-md-12 col-lg-12 clearpadding">
                <?php foreach ($hot_product as $value) {
                    $name = covert_vi_to_en($value->name);
                    $name = strtolower($name);
                    ?>
                    <div class="col-xs-12 col-sm-6 col-md-3 col-lg-3">
                        <div class="product_item">
                            <p class="product_name" ><a href="<?php echo base_url($name.'-p'.$value->id); ?>" ><?php echo $value->name; ?></a></p>
                            <div class="product-image">
                                <a href="<?php echo base_url($name.'-p'.$value->id); ?>"><img src="<?php echo base_url(); ?>upload/product/
                                    <?php echo $value->image_link; ?>" alt="" class=""></a>
                            </div>
                            <?php if ($value->discount>0) {
                                $new_price = $value->price - $value->discount; ?>
                                <p><span class='price text-right'><?php echo number_format($new_price); ?> VNĐ</span>
                                    <del class="product-discount"><?php echo number_format($value->price); ?> VNĐ</del></p>
                            <?php }else{ ?>
                                <p><span class='price text-right'><?php echo number_format($value->price); ?> VNĐ</span></p>
                            <?php   } ?>
                            <p><span class="glyphicon glyphicon-eye-open" aria-hidden="true" title="Số lượt xem"></span>
                            <?php echo $value->view; ?> <span class="glyphicon glyphicon-star-empty" aria-hidden="true" title="Số lượng đặt mua">
                            <?php echo $value->buyed; ?></p>
                            <a href="<?php echo base_url('cart/add/'.$value->id); ?>"><button class='btn btn-info'>
                                <span class="glyphicon glyphicon-shopping-cart" aria-hidden="true"></span> Thêm giỏ hàng</button></a>
                        </div>
                    </div>
                <?php } ?>
            </div>
        </div>
    </div>
</div>
```

Figure 15. Show products on page code 2

```php
<div class="row">
    <div class="panel panel-info">
        <div class="panel-heading">
            <h3 class="panel-title text-center"><img src="<?php echo base_url(); ?>upload/icon/hot.gif" alt="">
            <a href="<?php echo base_url('product/views'); ?>" class='product_title'>Sản phẩm xem nhiều</a><img src="<?php echo base_url(); ?>
            upload/icon/hot.gif" alt=""></h3>
        </div>
        <div class="panel-body">
            <div class="col-xs-12 col-sm-12 col-md-12 col-lg-12 clearpadding">
                <?php foreach ($view_product as $value) {
                    $name = covert_vi_to_en($value->name);
                    $name = strtolower($name);
                ?>
                <div class="col-xs-12 col-sm-6 col-md-3 col-lg-3">
                    <div class="product_item">
                        <p class="product_name" ><a href="<?php echo base_url($name.'-p'.$value->id); ?>" ><?php echo $value->name; ?></a></p>
                        <div class="product-image">
                            <a href="<?php echo base_url($name.'-p'.$value->id); ?>"><img src="<?php echo base_url(); ?>upload/product/
                                <?php echo $value->image_link; ?>" alt="" class=""></a>
                        </div>
                        <?php if ($value->discount>0) {
                            $new_price = $value->price - $value->discount; ?>
                            <p><span class='price text-right'><?php echo number_format($new_price); ?> VNĐ</span>
                            <del class="product-discount"><?php echo number_format($value->price); ?> VNĐ</del></p>
                        <?php }else{ ?>
                            <p><span class='price text-right'><?php echo number_format($value->price); ?> VNĐ</span></p>
                        <?php   } ?>
                        <p><span class="glyphicon glyphicon-eye-open" aria-hidden="true" title="Số lượt xem"></span>
                        <?php echo $value->view; ?> <span class="glyphicon glyphicon-star-empty" aria-hidden="true" title="Số lượng đặt mua">
                        <?php echo $value->buyed; ?></p>
                        <a href="<?php echo base_url('cart/add/'.$value->id); ?>"><button class='btn btn-info'>
                        <span class="glyphicon glyphicon-shopping-cart" aria-hidden="true"></span> Thêm giỏ hàng</button></a>
                    </div>
                </div>
                <?php } ?>
            </div>
        </div>
    </div>
</div>
```

Figure 16. Show products on page code 3

♦ **Footer**

```php
<div class="row" >
    <div class="col-xs-12 col-sm-12 col-md-12 col-lg-12" id="bank">
        <div class="col-xs-12 col-sm-8 col-md-8 col-lg-8 no-padding">
            <div class="footer-info">
                <div class="col-xs-12 col-sm-4 col-md-4 col-lg-4">
                    <a href="" title=""><strong>VỀ CHÚNG TÔI</strong></a>
                    <li> <a href="#" title="">Giới thiệu về shop</a></li>
                    <li> <a href="#" title="">Các mức chế tài vi phạm</a></li>
                    <li> <a href="#" title="">Quy chế hoạt động</a></li>
                </div>
                <div class="col-xs-12 col-sm-4 col-md-4 col-lg-4">
                    <a href="" title=""><strong>DÀNH CHO NGƯỜI MUA</strong></a>
                    <li> <a href="#" title="">Bảo vệ người mua</a></li>
                    <li> <a href="#" title="">Quy định đối với người mua</a></li>
                    <li> <a href="#" title="">Câu hỏi thường gặp</a></li>
                    <li> <a href="#" title="">Hướng dẫn mua hàng Online</a></li>

                </div>
                <div class="col-xs-12 col-sm-4 col-md-4 col-lg-4">
                    <a href="" title=""><strong>DÀNH CHO NGƯỜI BÁN</strong></a>
                    <li> <a href="#" title="">Mở shop trên Sendo</a></li>
                    <li> <a href="#" title="">Quy định đối với người bán</a></li>
                    <li> <a href="#" title="">Chính sách bán hàng</a></li>
                </div>
            </div>
        </div>
        <div class="col-xs-12 col-sm-4 col-md-4 col-lg-4">
            <p>Hỗ trợ thanh toán  <img src="http://localhost/myshop/public/images/pay.png" alt="" style="padding-left: 25px;"> </p>
            <div class="fi-left pull-left">
                <p><small>Tư vấn miễn phí (24/7)</small></p>
                <strong>+84 934 000 425</strong>
            </div>
            <div class="fi-right pull-right">
                <p><small>Góp ý, phản ánh(8h00 - 22h00)</small></p>
                <strong>+84 944 900 147</strong>
            </div>
        </div>
    </div>
</div>
```

Figure 17. Footer code 1

```
<div class="row" id="footer">
    <div class="col-xs-12 col-sm-12 col-md-12 col-lg-12">
        <div class="col-xs-12 col-sm-8 col-md-8 col-lg-8">
            <address>
                <strong>    SHOP thời trang HaT7</strong><br>
                <span class="glyphicon glyphicon-home" aria-hidden="true"></span> Địa chỉ: 910A Ngo Quyen - An Hai Bac, Son Tra - Da Nang
                <span class="glyphicon glyphicon-phone" aria-hidden="true"></span> Điện thoại: +84 934 000 425<br>
                Copyright ©2021 - Design by Hoang Anh Tuan
            </address>
        </div>
        <div class="col-xs-12 col-sm-4 col-md-4 col-lg-4 text-right">
            <a href="#"><img src="<?php echo base_url(); ?>upload/icon/facebook.png" alt=""></a>
            <a href="#"><img src="<?php echo base_url(); ?>upload/icon/twitter.png" alt=""></a>
            <a href="#"><img src="<?php echo base_url(); ?>upload/icon/google.png" alt=""></a>
        </div>
        <div class="clearfix"></div>
    </div>
</div>
```

Figure 18. Footer code 2

♦ **Connect Database**

In the development of the Home page, the displayed products are totally dynamic, based on the data from Database and when chieving this, the function that connects to the Database to the website page was designed in PHP.

```
$db['default'] = array(
    'dsn'    => '',
    'hostname' => 'localhost',
    'username' => 'root',
    'password' => '',
    'database' => 'hat7clothes',
    'dbdriver' => 'mysqli',
    'dbprefix' => '',
    'pconnect' => FALSE,
    'db_debug' => (ENVIRONMENT !== 'production'),
    'cache_on' => FALSE,
    'cachedir' => '',
    'char_set' => 'utf8',
    'dbcollat' => 'utf8_general_ci',
    'swap_pre' => '',
    'encrypt' => FALSE,
    'compress' => FALSE,
    'stricton' => FALSE,
    'failover' => array(),
    'save_queries' => TRUE
);
```

Figure 19. Connect Database code

2. Login page

The login page allows users can log in to HaT7 Clothes. In this case, PHP was used to help the login page connect to the Database after that check the Username and Password. If everything is correct so user can log in to HaT7 Clothes. If the login is wrong, the system will report an error. In addition, the login page also has functions such as menu bar and footer similar to the home page.

Figure 20. Login page

Figure 21. Error message login wrong

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <?php $this->load->view('site/head',$this->data); ?>
</head>
<body>
    <div class="container">
        <?php $this->load->view('site/header',$this->data); ?>

        <div class="row">
            <div class="col-xs-12 col-sm-12 col-md-12 col-lg-12 clearpadding" style="margin-top: 15px;">
                <ol class="breadcrumb">
                    <li><a href="#"><span class="glyphicon glyphicon-home" aria-hidden="true"></span> Home</a></li>
                    <li class="active">Đăng nhập</li>
                </ol>
                <div class="panel panel-info ">
                    <?php if (isset($message_fail) && !empty($message_fail)) { ?>
                        <?php echo $message_fail; ?>
                    <?php } ?>
                    <div class="panel-body">
                        <form class="form-horizontal" method="post" action="<?php echo base_url('user/login'); ?>">
                            <div class="form-group">
                                <h3 style="color: red"><?php echo form_error('login'); ?></h3>
                            </div>
                            <div class="form-group">
                                <label for="inputEmail3" class=" col-sm-offset-2 col-sm-2 control-label">Email</label>
                                <div class="col-sm-4">
                                    <input type="email" class="form-control" id="inputEmail3" placeholder="" name="email" value="
                                    <?php echo set_value('email'); ?>">
                                </div>
```
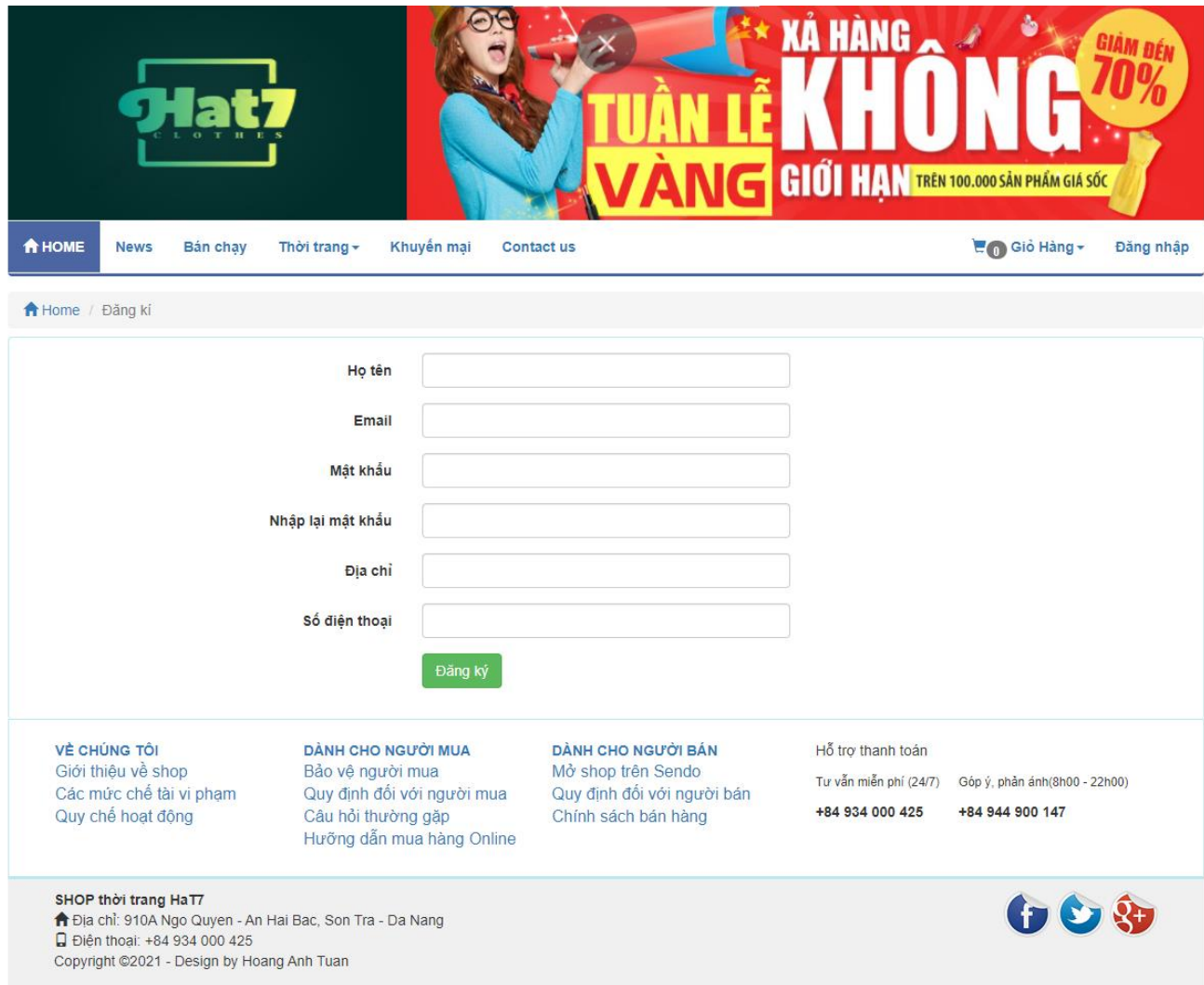
Figure 22. Login page code 1

```html
                                <div class="col-sm-3">
                                    <?php echo form_error('email'); ?>
                                </div>
                            </div>
                            <div class="form-group">
                                <label for="inputEmail3" class="col-sm-offset-2 col-sm-2 control-label">Mật khẩu</label>
                                <div class="col-sm-4">
                                    <input type="password" class="form-control" id="inputEmail3" placeholder="" name="password">
                                </div>
                                <div class="col-sm-3">
                                    <?php echo form_error('password'); ?>
                                </div>
                            </div>
                            <div class="form-group">
                                <div class="col-sm-offset-4 col-sm-2">
                                    <button type="submit" class="btn btn-success">Đăng nhập</button>
                                </div>
                                <div class="col-sm-offset-1 col-sm-2">
                                    <a href="<?php echo base_url('dang-ky'); ?>">Đăng kí</a>
                                </div>
                            </div>
                        </form>
                    </div>

                </div>
            </div>
        </div>
        <?php $this->load->view('site/footer',$this->data); ?>
    </div>
    <script src="<?php echo public_url('site/'); ?>bootstrap/js/bootstrap.min.js"></script>
</body>
</html>
```

Figure 23. Login page code 2

3. Register page

Sign-up page helps users create accounts to log in. Users enter their full name, email, password, and re-enter the password must match the password entered in the above step, followed by the address and phone number. At the end of the steps to enter necessary information to register, users click on the register button to complete the account creation step. If something goes wrong while creating the account, the system will report an error. In addition, the login page also has functions such as menu bar and footer similar to the home page.

Figure 24. Register page

Figure 25. Wrong registration error message

```
<!DOCTYPE html>
<html lang="en">
<head>
    <?php $this->load->view('site/head',$this->data); ?>
</head>
<body>
    <div class="container">
        <?php $this->load->view('site/header',$this->data); ?>

        <div class="row">
            <div class="col-xs-12 col-sm-12 col-md-12 col-lg-12 clearpadding" style="margin-top: 15px;">
                <ol class="breadcrumb">
                    <li><a href="#"><span class="glyphicon glyphicon-home" aria-hidden="true"></span> Home</a></li>
                    <li class="active">Đăng kí</li>
                </ol>
                <div class="panel panel-info ">
```

Figure 26. Register page code 1

```php
        <?php if (isset($message_success) && !empty($message_success)) { ?>
            <h4 style="color:green;text-align: center;margin-top: 30px"><?php echo $message_success; ?></h4>

        <?php } ?>
        <?php if (isset($message_fail) && !empty($message_fail)) { ?>
            <h4 style="color:red;text-align: center;margin-top: 30px"><?php echo $message_fail; ?></h4>
        <?php } ?>
<div class="panel-body">
    <form class="form-horizontal" method="post" action="<?php echo base_url('user/register'); ?>">
        <div class="form-group">
            <label for="inputEmail3" class="col-sm-offset-2 col-sm-2 control-label">Họ tên</label>
            <div class="col-sm-4">
                <input type="text" class="form-control" id="inputEmail3" placeholder="" name="name" value="
                <?php echo set_value('name'); ?>">
            </div>
            <div class="col-sm-3">
                <?php echo form_error('name'); ?>
        </div>
    </div>
        <div class="form-group">
            <label for="inputEmail3" class=" col-sm-offset-2 col-sm-2 control-label">Email</label>
            <div class="col-sm-4">
                <input type="email" class="form-control" id="inputEmail3" placeholder="" name="email" value="
                <?php echo set_value('email'); ?>">
            </div>
            <div class="col-sm-3">
                <?php echo form_error('email'); ?>
        </div>
    </div>
        <div class="form-group">
            <label for="inputEmail3" class="col-sm-offset-2 col-sm-2 control-label">Mật khẩu</label>
            <div class="col-sm-4">
                <input type="password" class="form-control" id="inputEmail3" placeholder="" name="password">
            </div>
            <div class="col-sm-3">
                <?php echo form_error('password'); ?>
    </div>
```

Figure 27. Register page code 2

```php
    </div>
    <div class="form-group">
        <label for="inputEmail3" class=" col-sm-offset-2 col-sm-2 control-label">Nhập lại mật khẩu</label>
        <div class="col-sm-4">
            <input type="password" class="form-control" id="inputEmail3" placeholder="" name="re_password">
        </div>
        <div class="col-sm-3">
        <?php echo form_error('re_password'); ?>
</div>
    </div>
    <div class="form-group">
        <label for="inputEmail3" class="col-sm-offset-2 col-sm-2 control-label">Địa chỉ</label>
        <div class="col-sm-4">
            <input type="text" class="form-control" id="inputEmail3" placeholder="" name="address" value="
            <?php echo set_value('address'); ?>">
        </div>
        <div class="col-sm-3">
        <?php echo form_error('address'); ?>
</div>
    </div>
```

Figure 28. Register page code 3

```
                    <div class="form-group">
                        <label for="inputEmail3" class="col-sm-offset-2 col-sm-2 control-label">Số điện thoại</label>
                        <div class="col-sm-4">
                            <input type="text" class="form-control" id="inputEmail3" placeholder="" name="phone" value="
                            <?php echo set_value('phone'); ?>">
                        </div>
                        <div class="col-sm-3">
                        <?php echo form_error('phone'); ?>
                    </div>
                    </div>
                    <div class="form-group">
                        <div class="col-sm-offset-4 col-sm-7">
                            <button type="submit" class="btn btn-success">Đăng ký</button>
                        </div>
                    </div>
                </form>
            </div>

            </div>
        </div>
    </div>
    <?php $this->load->view('site/footer',$this->data); ?>
</div>
    <script src="<?php echo public_url('site/'); ?>bootstrap/js/bootstrap.min.js"></script>
</body>
</html>
```
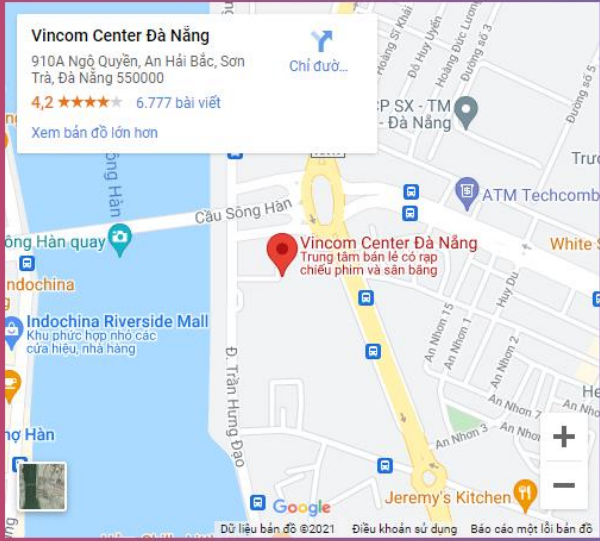
Figure 29. Register page code 4

4. Contact page

Figure 30. Contact page

This contact page is intended for users to submit comments and questions directly to customers. The contact page has two functions:

- Users can also easily search for the store's address through the small google map on the left side of the website.
- The right part will be the place for the user to enter first name, last name, phone number, country and what the user wants to send to the customer. At the bottom will be a submit button for users to complete submitting comments and questions to customers. The user can also return to the main page with the Cancel button on the same line as the submit button.

```php
<?php
?>

<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
</head>
<body>
<div class="container">

  <div style="text-align:center">
    <h2>Contact Us</h2>
  </div>

  <div class="row">

    <div class="column">
      <iframe src="https://www.google.com/maps/embed?pb=!1m18!1m12!1m3!1d3833.8857587149528!2d108.22798091485853!3d16.07141698887962!2m3!1f0!2
        width="500" height="450" style="border:0;" allowfullscreen="" loading="lazy"></iframe><br>
    </div>

    <div class="column">
      <form action="/action_page.php">
        <label for="fname">First Name</label>
        <input type="text" id="fname" name="firstname" placeholder="Your name..">
        <label for="lname">Last Name</label>
        <input type="text" id="lname" name="lastname" placeholder="Your last name..">
        <label for="pn">Phone number</label>
        <input type="text" id="lname" name="phonenumber" placeholder="Your phone number..">
        <label for="country">Country</label>
        <select id="country" name="country">
          <option value="australia">VietNam</option>
          <option value="canada">United Kingdom (UK)</option>
          <option value="usa">USA</option>
          <option value="usa">Chinese</option>
          <option value="usa">Korea</option>
          <option value="usa">Other</option>
        </select>
        <label for="subject">Subject</label>
```

Figure 31. Contact page code 1

```html
        </select>
        <label for="subject">Subject</label>
        <textarea id="subject" name="subject" placeholder="Write something.." style="height:170px"></textarea>
        <input type="submit" value="Submit">

        <button onclick="location.href='index.php'" type="button" class="cancelbtn">Cancel</button>
      </form>
    </div>
  </div>
</div>

</body>
</html>
```

Figure 32. Contact page code 2

5. Profile page

Figure 33. Profile page

This profile page is for the purpose of the user can view the information of the logged-in account. The body consists of information about the logged-in account such as first and last name, email, phone number, and address. There is also a search section to help users search for products. In addition, the login page also has functions such as a menu bar and footer similar to the home page.

```php
<div class="col-xs-12 col-sm-9 col-md-9 col-lg-9 clearpaddingr">
    <div class="col-xs-12 col-sm-12 col-md-12 col-lg-12 clearpadding">
        <ol class="breadcrumb">
            <li><a href="<?php echo base_url(); ?>#"><span class="glyphicon glyphicon-home" aria-hidden="true"></span> Trang chủ</a></li>
            <li class="active">Thông tin tài khoản</li>
        </ol>
        <div class="col-md-6 clearpadding">
        <div style="width: 700px ; height: 250px;" class="panel panel-info">
            <div class="panel-heading">
                <h3 class="panel-title">Thông tin tài khoản</h3>
            </div>
            <div class="panel-body">
                <div style="width: 670px ; height: 150px; font-size: 20px" class="col-xs-12 col-sm-12 col-md-12 col-lg-12 clearpadding">

                    <table class="table table-bordered">
                        <tbody>
                            <tr>
                                <td style="width: 200px">Họ và tên</td>
                                <td><?php echo $user->name; ?></td>
                            </tr>
                            <tr>
                                <td>Email</td>
                                <td><?php echo $user->email; ?></td>
                            </tr>
                            <tr>
                                <td>Số điện thoại</td>
                                <td><?php echo $user->phone; ?></td>
                            </tr>
                            <tr>
                                <td>Địa chỉ</td>
                                <td><?php echo $user->address; ?></td>
                            </tr>
                        </tbody>
                    </table></div>
                </div>
            </div>
        </div>

    </div>
</div>
```

Figure 34. Profile page code

```php
<?php
    $catalog_id = isset($catalog_id)?$catalog_id:NULL;
    $price_from = isset($price_from)?$price_from:NULL;
    $price_to = isset($price_to)?$price_to:NULL;
?>
<div class="col-xs-12 col-sm-3 col-md-3 col-lg-3 clearpaddingl">
    <div class="panel panel-info" style="margin-bottom: 5px;">
        <div class="panel-heading">
            <h3 class="panel-title">Tìm kiếm</h3>
        </div>
        <div class="panel-body">
            <form class="form-horizontal text-center" method="post" action="<?php echo base_url('product/search'); ?>">
                <div class="form-group form-group-sm">
                    <label class="col-sm-5 clearpaddingl control-label" for="formGroupInputSmall">Danh mục</label>
                    <div class="col-sm-7" style="padding-left: 0px">
                        <select class="form-control" name="catalog_id">
                            <?php foreach ($catalog as $value) { ?>
                                <option value="<?php echo $value->id; ?>" style='font-weight: bold'
                                <?php if($value->id==$catalog_id) echo 'selected'; ?>><?php echo $value->name; ?></option>
                                    <?php foreach ($value->sub as $val) { ?>
                                    <option value="<?php echo $val->id; ?>"
                                        <?php if($val->id==$catalog_id) echo 'selected'; ?>>   <?php echo $val->name; ?></option>
                                    <?php } ?>
                                </div>
                            <?php } ?>
                        </select>
```

Figure 35. Search function code 1

```php
                </select>
            </div>
        </div>
        <div class="form-group form-group-sm">
            <label class="col-sm-5 control-label" for="formGroupInputSmall">Giá từ:</label>
            <div class="col-sm-7" style="padding-left: 0px">
                <select class="form-control" name="price_from">
                <?php for ($i=0; $i < 1400000; $i = $i + 100000) { ?>
                    <option value="<?php echo $i ?>" <?php if($i==$price_from) echo 'selected'; ?>>
                    <?php echo number_format($i); ?> VNĐ</option>
                <?php } ?>
                </select>
            </div>
        </div>
        <div class="form-group form-group-sm">
            <label class="col-sm-5 control-label" for="formGroupInputSmall">đến:</label>
            <div class="col-sm-7" style="padding-left: 0px">
                <select class="form-control" name="price_to">
                <?php for ($i=100000; $i < 1500000; $i = $i + 100000) { ?>
                    <option value="<?php echo $i ?>" <?php if($i==$price_to) echo 'selected'; ?>>
                    <?php echo number_format($i); ?> VNĐ</option>
                <?php } ?>
                </select>
            </div>
        </div>
        <button class="btn btn-info" type="submit" name='submit'>Tìm kiếm</button>
    </form>
</div>
<div class="panel panel-info">
  <div class="panel-body" style="padding:0px">
    <div class="list-group">
    <?php foreach ($catalog as $value)
    {
        $name = covert_vi_to_en($value->name);
        $name = strtolower($name);
    ?>
```

Figure 36. Search function code 2

```php
        <div class="list-group">
            <a href="<?php echo base_url($name.'-c'.$value->id); ?>" class="list-group-item active">
            <?php echo $value->name; ?>
            </a>
         <?php foreach ($value->sub as $val) {
            $namesub = covert_vi_to_en($val->name);
            $namesub = strtolower($namesub);
            ?>
            <a href="<?php echo base_url($namesub.'-c'.$val->id); ?>" class="list-group-item"><?php echo $val->name; ?></a>
         <?php } ?>
        </div>
    <?php } ?>
    </div>
  </div>
</div>
<div class="panel panel-info" style="margin-top:10px;margin-bottom:10px;">
  <!-- <div class="panel-body" style="padding:0px">
    <img style="width: 100%" src="<?php echo base_url('upload/qc.gif'); ?>" alt="">
  </div> -->
  </div>
</div>
```

Figure 37. Search function code 3

6. Cart page

Figure 38. Cart page

This shopping cart page has the function to perform shopping operations such as viewing, selecting the product quantity, deleting products, or placing an order. The body consists of where the user can view the number of selected products, product names, product images, adjust the number of products, the quantity corresponding to the number of products. Users can delete individual products or delete all selected products. Users can also view the total amount of purchases and orders. If no products are selected, the website will display a message stating that the shopping cart is empty.

There is also a search section to help users search for products similar to the profile page. In addition, the login page also has functions such as a menu bar and footer similar to the homepage.

Figure 39. The cart is empty

```
<div class="col-xs-12 col-sm-9 col-md-9 col-lg-9 clearpaddingr">
    <div class="col-xs-12 col-sm-12 col-md-12 col-lg-12 clearpadding">
        <ol class="breadcrumb">
            <li><a href="#"><span class="glyphicon glyphicon-home" aria-hidden="true"></span> Trang chủ</a></li>
            <li class="active">Chi tiết giỏ hàng</li>
        </ol>
        <?php if (isset($message) && !empty($message)) { ?>
            <h4 style="color:red;margin-top: 20px"><?php echo $message; ?></h4>
        <?php }
        if ($total_items > 0) { ?>
            <div class="panel panel-info " style="margin-bottom: 15px">
                <div class="panel-heading">
                    <h3 class="panel-title">GIỎ HÀNG ( <?php echo $total_items; ?> sản phẩm )</h3>
                </div>
                <div class="panel-body">
                    <table class="table table-hover">
                        <thead>
                            <th>STT</th>
                            <th>Tên sản phẩm</th>
                            <th>Hình ảnh</th>
                            <th>Số lượng</th>
                            <th>Thành tiền</th>
                            <th>Xóa</th>
                        </thead>
                        <tbody>
                        <?php
                            $i=0;
                            $total_price = 0;
                            foreach ($carts as $items) {
                                $total_price = $total_price + $items['subtotal']; ?>
                            <tr>
                                <td><?php echo $i = $i + 1 ?></td>
                                <td><?php echo $items['name']; ?></td>
                                <td><img src="<?php echo base_url('upload/product/'.$items['image_link']); ?>" class="img-thumbnail"
                                    alt="" style="width: 50px;"></td>
                                <td><a class="cart-sumsub" href="<?php echo base_url('cart/update/'.$items['id'].'/sub'); ?>">-</a>
                                <input type="text" value="<?php echo $items['qty']; ?>" style="width: 30px;text-align: center;">
                                <a class="cart-sumsub" href="<?php echo base_url('cart/update/'.$items['id'].'/sum'); ?>">+</a></td>
                                <td><?php echo number_format($items['subtotal']); ?> VNĐ</td>
                                <td><a  href="<?php echo base_url('cart/del/'.$items['id']); ?>">
```

Figure 40. Cart page code 1

```
                                <span class="glyphicon glyphicon-trash" aria-hidden="true"></span></a></td>
                            </tr>
                        <?php   }
                        ?>
                            <tr>
                                <td colspan="4">Tổng tiền</td>
                                <td style="font-weight: bold;color:green"><?php echo number_format($total_price); ?> VNĐ</td>
                                <td><a style="font-weight: bold;color: red" href="<?php echo base_url('cart/del'); ?>">Xóa toàn bộ</a></td>
                            </tr>
                            <tr>
                                <td colspan="6"><a href="<?php echo base_url('order'); ?>" class="btn btn-success">Đặt mua</a></td>
                            </tr>
                        </tbody>
                    </table>

                </div>
            </div>
        <?php }else{ ?>
            <div class="panel panel-info " style="margin-bottom: 15px">
                <div class="panel-heading">
                    <h3 class="panel-title">GIỎ HÀNG ( 0 sản phẩm )</h3>
                </div>
                <div class="panel-body">
                    <div class="text-center">
                        <img src="<?php echo base_url('upload/cart-empty.png') ?>" alt="">
                        <h4 style="color:red">Không có sản phẩm trong giỏ hàng</h4>
                        <a href="<?php echo base_url('product/hot'); ?>" class="btn btn-success">Mua sắm</a>
                    </div>


                </div>
            </div>

        <?php }
        ?>
    </div>
</div>
```
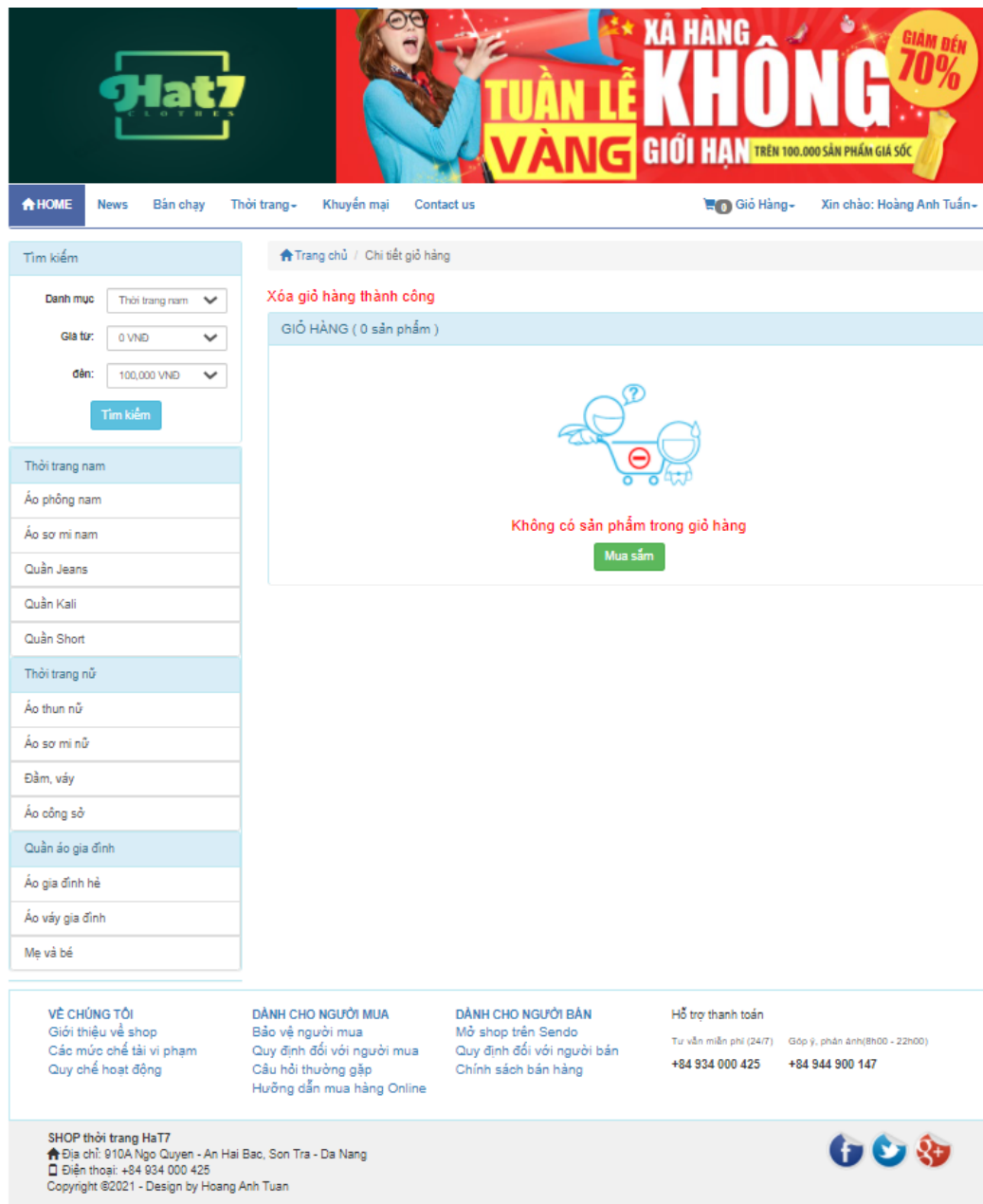
Figure 41. Cart page code 2

III. Create a suitable Test Plan (P7)

No	What's being tested	Expected Result	Date
1	Check the registration function, if successful registration login to see if the result is successful	Can login successfully and use the created account to login successfully to the homepage	26/4/2021
2	Order to see if the data is being stored in the database or not	The order information will be run smoothly and stored in the database	26/4/2021
3	Order to see if products have been added to the cart or not	Items can be inserted and shown in the shopping cart	26/4/2021
4	Cart functions can be customized including adding quantity, removing all, or reducing quantity	Each product can be deleted individually or completely. Successfully add quantity or decrease quantity.	26/4/2021
5	Try entering the wrong password	Entering the wrong password can still access the homepage	26/4/2021
6	Updated information in profile	Successfully updated user information without any errors	26/4/2021

Table 1. Test case

No	What's being tested	Expected output	Actual output	Evaluation	Date
1	Check the registration function, if successful registration login to see if the result is successful	Can login successfully and use the created account to login successfully to the homepage	Can login successfully and use the created account to login successfully to the homepage	**Pass**	26/4/2021
2	Order to see if the data is being stored in the database or not	The order information will be run smoothly and stored in the database	The order information will be run smoothly and stored in the database	**Pass**	26/4/2021
3	Order to see if products have been added to the cart or not	Items can be inserted and shown in the shopping cart	Items can be inserted and shown in the shopping cart	**Pass**	26/4/2021
4	Cart functions can be customized including adding quantity, removing all, or reducing quantity	Each product can be deleted individually or completely. Successfully add quantity or decrease quantity.	Each product can be deleted individually or completely. Successfully add quantity or decrease quantity.	**Pass**	26/4/2021
5	Try entering the wrong password	Entering the wrong password can still access the homepage	Unable to login to the homepage and an error message that cannot be logged in appears (Click here to see)	**Fail**	26/4/2021
6	Updated information in profile	Successfully updated user information without any errors	Successfully updated user information without any errors	**Pass**	26/4/2021

Table 2. Test log

Sai email hoặc mật khẩu

Email	
Mật khẩu	

Đăng nhập　　　　　Đăng kí

Figure 42. System login error notification

References

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