1. The size of the header/logo and navigation is adjusted.
2. The layout of the header and navigation is adjusted.
3. Input validation is added to the contact and sign up page.

```
4.  <!DOCTYPE html>
5.  <html lang="en">
6.
7.  <!-- Here is the head element-->
8.
9.  <head>
10.     <title>Homepage for a Fictional Business</title>
11.     <meta name="author" content="Yiyang Hou">
12.     <meta name="description" content="Homepage for a Fictional Business
   ">
13.     <meta charset="utf-8">
14.     <meta name="viewport" content="width=device-width, initial-
   scale=1, shrink-to-fit=no">
15.     <!-- Latest compiled and minified CSS -->
16.     <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/boo
   tstrap/4.5.0/css/bootstrap.min.css"
17.         integrity="sha384-
   9aIt2nRpC12Uk9gS9baDl411NQApFmC26EwAOH8WgZl5MYYxFfc+NcPb1dKGj7Sk" cross
   origin="anonymous">
18. </head>
19.
20. <body>
21.     <div class="row" style="background-color:goldenrod">
22.         <div class="container">
23.             <div class="col-md-12 text-right font-weight-bold">
24.                 <a class="btn btn-dark" href="Task5-
   3_about_us.html" role="button">About Us</a>    
25.                 <a class="btn btn-dark" href="Task5-
   3_support.html" role="button">Support</a>    
26.                 <a class="btn btn-dark" href="Task5-
   3_contact.html" role="button">Contact</a>   
27.                 <a class="btn btn-dark" href="Task5-
   3_login.html" role="button">Login</a>   
28.             </div>
29.         </div>
30.     </div>
31.     <!-- Header part of the page within jumbotron -->
32.     <div class="jumbotron" style="background-color:goldenrod">
33.         <div class="container">
34.             <div class="row">
35.                 <div class="col-md-3">
36.                     <img src="logo.png" alt="Logo" style="width: 100%;"
   >
37.                 </div>
38.                 <!-- Some navigation options at the top -->
```

```html
39.              <div class="col-md-9 text-center font-weight-bold">
40.                  <form>
41.                      <!-- A search feature -->
42.                      <br>
43.                      <br>
44.                      <div class="form-row container">
45.                          <div class="col-md-10">
46.                              <input type="text" class="form-
    control" name="searchbox" id="searchbox"
47.                                  placeholder="Make a search here">
48.                          </div>
49.                          <div class="col-md-2 font-weight-bold">
50.                              <input type="submit" class="form-
    control btn btn-dark" value="Search">
51.                          </div>
52.                      </div>
53.                  </form>
54.                  <hr style="height: 1em;">
55.                  <!-- Navigation of the site -->
56.                  <nav>
57.                      <div class="row container bg-dark">
58.                          <div class="col-md-4 font-weight-bold text-
    center">
59.                              <a href="Task5-
    3_home.html" role="button" style="color: white;">HOME</a>
60.                          </div>
61.                          <div class="col-md-4 font-weight-bold text-
    center">
62.                              <a href="Task5-
    3_product_cate1.html " role="button" style="color: white;">ANIMAL PRODU
    CTS</a>
63.                          </div>
64.                          <div class="col-md-4 font-weight-bold text-
    center">
65.                              <a href="Task5-
    3_product_cate2.html" role="button" style="color: white;">VEGETABLES</a
    >
66.                          </div>
67.                      </div>
68.                  </nav>
69.              </div>
70.          </div>
71.      </div>
72.  </div>
73.  <div class="container">
74.      <div class="row">
75.          <!-- Social Media Section -->
76.          <div class="col-md-2" style="background-color: khaki;">
```

```html
77.              <h5>Social Media</h5>
78.              <b>Follow us on:</b>
79.              <a href="https://www.facebook.com"><img src="facebook.p
   ng" alt="Facebook Logo" style="width:100%"></a>
80.              <a href="https://www.linkedin.com"><img src="LinkedIn.p
   ng" alt="LinkedIn Logo" style="width:100%;"></a>
81.              <a href="https://www.twitter.com"><img src="Twitter.web
   p" alt="Twitter Logo" style="width:100%;"></a>
82.              <a href="https://www.youtube.com"><img src="YouTube.png
   " alt="YouTube Logo" style="width:100%"></a>
83.          </div>
84.          <div class="col-md-10">
85.              <!-- Homepage Content Section -->
86.              <h2>Highlight of the Week!</h2>
87.              <br>
88.              <div class="container">
89.                  <div id="newCarousel" class="carousel slide" data-
   ride="carousel">
90.                      <!--Indicators-->
91.                      <ol class="carousel-indicators">
92.                          <li data-target="#newCarousel" data-slide-
   to="0" class="active"></li>
93.                          <li data-target="#newCarousel" data-slide-
   to="1"></li>
94.                      </ol>
95.                      <!-- Wrapper for slides -->
96.                      <div class="carousel-inner">
97.                          <div class="carousel-item active">
98.                              <a href="Task5-
   3_product1.html" style="color: black;">
99.                                  <img src="eggs.jpg" alt="Eggs" styl
   e="width:100%;">
100.                                      <div class="carousel-
   caption font-weight-bold">
101.                                          <h5 style="color: black;"
   >
102.                                              Eggs  $10
103.                                          </h5>
104.                                      </div>
105.                                  </a>
106.                              </div>
107.                          <div class="carousel-item">
108.                              <a href="Task5-
   3_product2.html" style="color: black;">
109.                                  <img src="broccoli.jpg" alt="
   Broccoli" style="width:100%;">
110.                                      <div class="carousel-
   caption font-weight-bold">
```

```html
111.                                              <h5>
112.                                                  Broccoli  $
    10
113.                                              </h5>
114.                                          </div>
115.                                      </a>
116.                                  </div>
117.                              </div>
118.                              <!-- Left and right controls -->
119.                              <a class="carousel-control-
    prev" href="#newCarousel" data-slide="prev">
120.                                  <span class="carousel-control-prev-
    icon"></span>
121.                                  <span class="sr-only">Previous</span>
122.                              </a>
123.                              <a class="carousel-control-
    next" href="#newCarousel" data-slide="next">
124.                                  <span class="carousel-control-next-
    icon"></span>
125.                                  <span class="sr-only">Next</span>
126.                              </a>
127.                          </div>
128.                      </div>
129.                  </div>
130.              </div>
131.              <!-- footer -->
132.              <footer>
133.                  <small><i> This website belongs to a fictional compan
    y</i></small>
134.              </footer>
135.          </div>
136.          <!-- Optional JavaScript -->
137.          <!-- jQuery first, then Popper.js, then Bootstrap JS -->
138.          <script src="https://code.jquery.com/jquery-
    3.5.1.slim.min.js"
139.              integrity="sha384-
    DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj"
140.              crossorigin="anonymous"></script>
141.          <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/di
    st/umd/popper.min.js"
142.              integrity="sha384-
    Q6E9RHvbIyZFJoft+2mJbHaEWldlvI9IOYy5n3zV9zzTtmI3UksdQRVvoxMfooAo"
143.              crossorigin="anonymous"></script>
144.          <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5
    .0/js/bootstrap.min.js"
145.              integrity="sha384-
    OgVRvuATP1z7JjHLkuOU7Xw704+h835Lr+6QL9UvYjZE3Ipu6Tp75j7Bh/kR0JKI"
146.              crossorigin="anonymous"></script>
```

```
147.        </body>
148.
149.      </html>
```

```
<!DOCTYPE html>
<html lang="en">

<!-- Here is the head element-->

<head>
    <title>Contact</title>
    <meta name="author" content="Yiyang Hou">
    <meta name="description" content="Contact">
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1, shrink-to-fit=no">
    <!-- Latest compiled and minified CSS -->
    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/
4.5.0/css/bootstrap.min.css"
        integrity="sha384-
9aIt2nRpC12Uk9gS9baDl411NQApFmC26EwAOH8WgZl5MYYxFfc+NcPb1dKGj7Sk" crossorigin=
"anonymous">
    <script>
        function validation() {
            var numbers = /^[0-9]+$/, flag;
            flag = true;
            if (document.getElementById("name").value.length == 0) {
                document.getElementById("nameError").innerHTML = "<span class=
'text-danger'><i>You did not enter your name</i></span>";
                flag = false;
            }
            else {
                document.getElementById("nameError").innerHTML = "";
            }
            if (document.getElementById("email").value.length == 0) {
                document.getElementById("emailError").innerHTML = "<span class
='text-danger'><i>You did not enter your email address</i></span>";
                flag = false;
            }
            else if (document.getElementById("email").value.indexOf("@") < 0)
{
                document.getElementById("emailError").innerHTML = "<span class
='text-danger'><i>Your input is invalid, it does not contain @</i></span>";
                flag = false;
            }
            else {
```

```
                document.getElementById("emailError").innerHTML = "";
        }

        if (document.getElementById("phone").value.length == 0) {
                document.getElementById("phoneError").innerHTML = "<span class
='text-danger'><i>You did not enter your phone number</i></span>";
                flag = false;
        }
        else if (!document.getElementById("phone").value.match(numbers)) {
                document.getElementById("phoneError").innerHTML = "<span class
='text-danger'><i>Your phone number must be an array of numbers</i></span>";
                flag = false;
        }
        else if (document.getElementById("phone").value.length != 10) {
                document.getElementById("phoneError").innerHTML = "<span class
='text-danger'><i>Phone number must be exactly 10 digits</i></span>";
                flag = false;
        }
        else{
                document.getElementById("phoneError").innerHTML = "";
        }
        if (document.getElementById("subject").value.length == 0) {
                document.getElementById("subjectError").innerHTML = "<span cla
ss='text-danger'><i>You must have a subject</i></span>";
                flag = false;
        }
        else {
                document.getElementById("subjectError").innerHTML = "";
        }
        return flag;
    }
    </script>
</head>

<body>
    <div class="row" style="background-color:goldenrod">
        <div class="container">
            <div class="col-md-12 text-right font-weight-bold">
                <a class="btn btn-dark" href="Task5-
3_about_us.html" role="button">About Us</a>    
                <a class="btn btn-dark" href="Task5-
3_support.html" role="button">Support</a>    
                <a class="btn btn-dark" href="Task5-
3_contact.html" role="button">Contact</a>   
                <a class="btn btn-dark" href="Task5-
3_login.html" role="button">Login</a>   
            </div>
        </div>
    </div>
```

```html
        </div>
    <!-- Header part of the page within jumbotron -->
    <div class="jumbotron" style="background-color:goldenrod">
        <div class="container">
            <div class="row">
                <div class="col-md-3">
                    <img src="logo.png" alt="Logo" style="width: 100%;">
                </div>
                <!-- Some navigation options at the top -->
                <div class="col-md-9 text-center font-weight-bold">
                    <form>
                        <!-- A search feature -->
                        <br>
                        <br>
                        <div class="form-row container">
                            <div class="col-md-10">
                                <input type="text" class="form-
control" name="searchbox" id="searchbox"
                                    placeholder="Make a search here">
                            </div>
                            <div class="col-md-2 font-weight-bold">
                                <input type="submit" class="form-
control btn btn-dark" value="Search">
                            </div>
                        </div>
                    </form>
                    <hr style="height: 1em;">
                    <!-- Navigation of the site -->
                    <nav>
                        <div class="row container bg-dark">
                            <div class="col-md-4 font-weight-bold text-
center">
                                <a href="Task5-
3_home.html" role="button" style="color: white;">HOME</a>
                            </div>
                            <div class="col-md-4 font-weight-bold text-
center">
                                <a href="Task5-
3_product_cate1.html " role="button" style="color: white;">ANIMAL
                                    PRODUCTS</a>
                            </div>
                            <div class="col-md-4 font-weight-bold text-
center">
                                <a href="Task5-
3_product_cate2.html" role="button" style="color: white;">VEGETABLES</a>
                            </div>
                        </div>
                    </nav>
```

```html
                </div>
            </div>
        </div>
    </div>
    <div class="container">
        <div class="container">
            <h2>Contact</h2>
            <p>
                Company contact details are placed here.<br><br><br><br><br><br><br><br>
            </p>
            <!-- Contact Form-->
            <h3>Please fill out the form to send us a messgae:</h3>
            <br>
            <form onsubmit="return validation()">
                <div class="form-group row">
                    <label class="col-form-label col-md-3 col-4 text-right font-weight-bold" for="name">Name:</label>
                    <div class="col-md-6 col-5">
                        <input type="text" class="form-control" name="name" id="name" placeholder="Your Name">
                    </div>
                    <span class="col-md-3 col-3" id="nameError">
                    </span>
                </div>
                <div class="form-group row">
                    <label class="col-form-label col-md-3 col-4 text-right font-weight-bold" for="email">Email:</label>
                    <div class="col-md-6 col-5">
                        <input type="text" class="form-control" name="email" id="email" placeholder="Enter Email">
                    </div>
                    <span class="col-md-3 col-3" id="emailError">
                    </span>
                </div>
                <div class="form-group row">
                    <label class="col-form-label col-md-3 col-4 text-right font-weight-bold" for="phone">Phone:</label>
                    <div class="col-md-6 col-5">
                        <input type="text" class="form-control" name="phone" id="phone"
                               placeholder="Enter Phone Number">
                    </div>
                    <span class="col-md-3 col-3" id="phoneError">
                    </span>
                </div>
                <div class="form-group row">
```

```html
                        <label class="col-form-label col-md-3 col-4 text-
right font-weight-bold"
                            for="subject">Subject:</label>
                        <div class="col-md-6 col-5">
                            <input type="text" class="form-
control" name="subject" id="subject"
                                placeholder="Subject of the Message">
                        </div>
                        <span class="col-md-3 col-3" id="subjectError">
                        </span>
                    </div>
                    <div class="form-group row">
                        <label class="col-form-label col-md-3 col-4 text-
right font-weight-bold"
                            for="message">Message:</label>
                        <div class="col-md-9 col-8">
                            <textarea class="form-
control" name="message" id="message" rows="5">
                            </textarea>
                        </div>
                    </div>
                    <div class="form-group row col-md-9 offset-md-3 col-9 offset-
3">
                        <div>
                            <input type="submit" value="Submit">
                        </div>
                         
                        <div>
                            <input type="reset" value="Reset">
                        </div>
                    </div>
                </form>
        </div>
        <footer>
            <small><i> This website belongs to a fictional company</i></small>
        </footer>
    </div>

    <!-- Optional JavaScript -->
    <!-- jQuery first, then Popper.js, then Bootstrap JS -->
    <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"
        integrity="sha384-
DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj"
        crossorigin="anonymous"></script>
    <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper
.min.js"
        integrity="sha384-
Q6E9RHvbIyZFJoft+2mJbHaEWldlvI9IOYy5n3zV9zzTtmI3UksdQRVvoxMfooAo"
```

```
            crossorigin="anonymous"></script>
    <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/js/bootstr
ap.min.js"
        integrity="sha384-
OgVRvuATP1z7JjHLkuOU7Xw704+h835Lr+6QL9UvYjZE3Ipu6Tp75j7Bh/kR0JKI"
        crossorigin="anonymous"></script>
</body>

</html>
```

```
<!DOCTYPE html>
<html lang="en">

<!-- Here is the head element-->

<head>
    <title>Sign Up</title>
    <meta name="author" content="Yiyang Hou">
    <meta name="description" content="Sign up">
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1, shrink-to-fit=no">
    <!-- Latest compiled and minified CSS -->
    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/
4.5.0/css/bootstrap.min.css"
        integrity="sha384-
9aIt2nRpC12Uk9gS9baDl411NQApFmC26EwAOH8WgZl5MYYxFfc+NcPb1dKGj7Sk" crossorigin=
"anonymous">
        <script>
            function validation(){
            var flag;
            flag = true;
            if (document.getElementById("username").value.length == 0) {
                document.getElementById("usernameError").innerHTML = "<span cl
ass='text-danger'><i>You did not enter your username</i></span>";
                flag = false;
            }
            else {
                document.getElementById("usernameError").innerHTML = "";
            }

            if (document.getElementById("password").value.length == 0) {
                document.getElementById("passwordError").innerHTML = "<span cl
ass='text-danger'><i>You did not enter your password</i></span>";
                flag = false;
            }
```

```
        else {
            document.getElementById("passwordError").innerHTML = "";
        }
        if (document.getElementById("password2").value != document.getElem
entById("password").value) {
            document.getElementById("password2Error").innerHTML = "<span c
lass='text-danger'><i>Your input is different to your password</i></span>";
            flag = false;
        }
        else {
            document.getElementById("password2Error").innerHTML = "";
        }
        if (document.getElementById("email").value.length == 0) {
            document.getElementById("emailError").innerHTML = "<span class
='text-danger'><i>You did not enter your email address</i></span>";
            flag = false;
        }
        else if (document.getElementById("email").value.indexOf("@") < 0)
{
            document.getElementById("emailError").innerHTML = "<span class
='text-danger'><i>Your input is invalid, it does not contain @</i></span>";
            flag = false;
        }
        else {
            document.getElementById("emailError").innerHTML = "";
        }
        return flag;
        }
    </script>
</head>

<body>
    <div class="row" style="background-color:goldenrod">
        <div class="container">
            <div class="col-md-12 text-right font-weight-bold">
                <a class="btn btn-dark" href="Task5-
3_about_us.html" role="button">About Us</a>    
                <a class="btn btn-dark" href="Task5-
3_support.html" role="button">Support</a>    
                <a class="btn btn-dark" href="Task5-
3_contact.html" role="button">Contact</a>   
                <a class="btn btn-dark" href="Task5-
3_login.html" role="button">Login</a>   
            </div>
        </div>
    </div>
    <!-- Header part of the page within jumbotron -->
    <div class="jumbotron" style="background-color:goldenrod">
```

```html
<div class="container">
    <div class="row">
        <div class="col-md-3">
            <img src="logo.png" alt="Logo" style="width: 100%;">
        </div>
        <!-- Some navigation options at the top -->
        <div class="col-md-9 text-center font-weight-bold">
            <form>
                <!-- A search feature -->
                <br>
                <br>
                <div class="form-row container">
                    <div class="col-md-10">
                        <input type="text" class="form-control" name="searchbox" id="searchbox"
                            placeholder="Make a search here">
                    </div>
                    <div class="col-md-2 font-weight-bold">
                        <input type="submit" class="form-control btn btn-dark" value="Search">
                    </div>
                </div>
            </form>
            <hr style="height: 1em;">
            <!-- Navigation of the site -->
            <nav>
                <div class="row container bg-dark">
                    <div class="col-md-4 font-weight-bold text-center">
                        <a href="Task5-3_home.html" role="button" style="color: white;">HOME</a>
                    </div>
                    <div class="col-md-4 font-weight-bold text-center">
                        <a href="Task5-3_product_cate1.html " role="button" style="color: white;">ANIMAL
                            PRODUCTS</a>
                    </div>
                    <div class="col-md-4 font-weight-bold text-center">
                        <a href="Task5-3_product_cate2.html" role="button" style="color: white;">VEGETABLES</a>
                    </div>
                </div>
            </nav>
        </div>
    </div>
</div>
```

```html
            </div>
    <div class="container">
        <div class="container">
            <!-- Sign Up -->
            <h2>Sign up</h2>
            <form onsubmit="return validation()">
                <div class="form-group row">
                    <label class="col-form-label col-md-3 col-4 text-right font-weight-bold"
                        for="username">Username:</label>
                    <div class="col-md-6 col-5">
                        <input type="text" class="form-control" name="username" id="username">
                    </div>
                    <span class="col-md-3 col-3" id="usernameError">
                    </span>
                </div>
                <div class="form-group row">
                    <label class="col-form-label col-md-3 col-4 text-right font-weight-bold"
                        for="password">Password:</label>
                    <div class="col-md-6 col-5">
                        <input type="password" class="form-control" name="password" id="password">
                    </div>
                    <span class="col-md-3 col-3" id="passwordError">
                    </span>
                </div>
                <div class="form-group row">
                    <label class="col-form-label col-md-3 col-4 text-right font-weight-bold"
                        for="password2">Repeat Your Password:</label>
                    <div class="col-md-6 col-5">
                        <input type="password" class="form-control" name="password2" id="password2"
                            placeholder="Please Repeat Your Password">
                    </div>
                    <span class="col-md-3 col-3" id="password2Error">
                    </span>
                </div>
                <div class="form-group row">
                    <label class="col-form-label col-md-3 col-4 text-right font-weight-bold" for="email">Email:</label>
                    <div class="col-md-6 col-5">
                        <input type="text" class="form-control" name="email" id="email">
                    </div>
                    <span class="col-md-3 col-3" id="emailError">
```

```html
            </span>
          </div>
          <div class="form-group row col-md-9 offset-md-3 col-9 offset-
3">
              <div>
                  <input type="submit" value="Sign Up">
              </div>
               
              <div>
                  <input type="reset" value="Reset">
              </div>
          </div>
      </form>
    </div>
    <footer>
        <small><i> This website belongs to a fictional company</i></small>
    </footer>
  </div>

  <!-- Optional JavaScript -->
  <!-- jQuery first, then Popper.js, then Bootstrap JS -->
  <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"
      integrity="sha384-
DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj"
      crossorigin="anonymous"></script>
  <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper
.min.js"
      integrity="sha384-
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      crossorigin="anonymous"></script>
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