Full code:
https://drive.google.com/file/d/15NanVLml4oNaFXsqqWXql-_MpshEoZVf/view?usp=sharing

Live demo of web page: http://54.252.248.5:8000/

-- DO NOT DELETE ANYTHING ABOVE THIS--

Brief:

Canning Garbage Dump is a great website to sell Canning Garbage Dump's services, including garbage disposal. There are a range of services offered and even order functionality where you are able to place an order and contact Canning Garbage Dump if you have an enquiry, which they can promptly respond to. You are able to leave your e-mail and then Canning Garbage Dump while they get back to you, and are able to confirm package per kg of rubbish you want to dispose.

Task: Convert all the code in here to English, in accordance with the contents below:

**Table of contents**

1.1.1.

return render_template('/index.html', msg=None)

- This sends the index.html file to the user with no message.

1.1.2

About page

```
    <h3 class="w3-center">ABOUT US</h3>
    <p class="w3-center"></p>
```

> this is the main title for our about page. This is under the class of “w3-center” so the text will have a predetermined font and css.
> the tag <h3> is used which is the third largest tag.

```
<p class="w3-center">Cannington and its surrounds have been plagued by endless piles of rubbish, scattered everywhere.</p>
    <p class="w3-center">Canning Garbage Dump attempts to change that. We now accept all your rubbish you've piled up over the years.</p>
    <p class="w3-center">All this done at a <em>very</em> reasonable price - with special bulk discounts.</p>
```

> this is the main content for our about page.
> all of this is under the “w3-center” class. Which contains predetermined css.

```
<article>
  <div class="w3-row w3-center w3-dark-grey w3-padding-16">
    <div class="w3-quarter w3-section"></div>
    <div class="w3-quarter w3-section">
      <center>
        <aside>
          <span class="w3-xlarge">8.3+</span><br>
          million animals saved
        </aside>
      </center>
    </div>
    <div class="w3-quarter w3-section">
      <center>
        <span class="w3-xlarge">15.5+</span><br>
        tonnes of rubbish dumped
      </center>
    </div>
    <div class="w3-quarter w3-section"></div>
  </div>
```

> this contains the basic statistics of our company.
> these are under the class of “w3-quarter w3 section” and “w3-xlarge”
> all these tags are centered, indicated by the  tag.

1.1.3.

```
<div class="w3-content w3-container w3-padding-64" id="about">
     <h3 class="w3-center">ABOUT US</h3>
     <p class="w3-center"></p>
     <center>
       <h3><em>Cannington's best garbage dump</em></h3>
     </center>
     <p class="w3-center">Cannington and its surrounds have been plagued by endless piles of rubbish, scattered everywhere.</p>
     <p class="w3-center">Canning Garbage Dump attempts to change that. We now accept all your rubbish you've piled up over the years.</p>
     <p class="w3-center">All this done at a <em>very</em> reasonable price - with special bulk discounts.</p>
     <p class="w3-center"></p>
     <aside>
       Scroll down below to see pricing for <em>Canning Garbage Dump</em> - but if you contact us we're able to offer bulk pricing and for a small $5 extra fee, we can offer garbage collection straight from your house in Perth Metro areas.
     </aside>
   </div>
```

- This page shows us the pricing for our products
- This allows us to add or remove items from our cart
- We can then click the check out page.

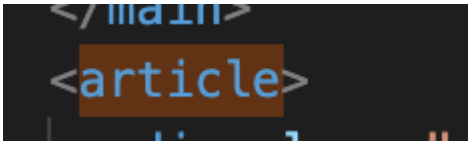
1.1.4.

```
      <span class="w3-xxlarge w3-text-white w3-wide">CONTACT</span>
    </div>
  </div>
</section>
<summary>
  <!-- Container (Contact Section) -->
</summary>
<div class="w3-content w3-container w3-padding-64" id="contact">
  <h3 class="w3-center">COME AND FIND US</h3>
  <p class="w3-center"><em>We'd love to hear from you!.</em></p>
  <div class="w3-row w3-padding-32 w3-section">
    <div class="w3-col m4 w3-container"><img src="map.png" style="width:100%" alt="map"></div>
    <div class="w3-col m8 w3-panel">
      <div class="w3-large w3-margin-bottom">
        Canning Vale, Western Australia<br>
        Phone: +61475822938<br>
        Email: garbagecollection@canning.gov.au<br>
      </div>
      <p>Have a large order? Fill the form out below and we will endeavour to answer your question as soon as possible.</p>
```

This piece of code basically tells the clients how to contact the owner of the product, by phone number or email, and tells them the location of the store in case the clients want to go there physically.

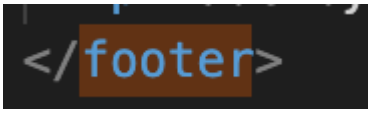
1.1.5.
The tags that are used:

Article

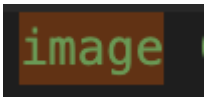



head


Footer




Image




Href


Div


Form


These tags help the website to be more readable and allows for easy organisation.
These tags are in HTML format.

1.1.6.

1.2.

The checkout system operates much like a REST API system, with the browser's cookies being modified upon being navigated to a page which either adds or removes an item to or from the cart.

```
@app.route('/add_cart_1')
def add_cart_1():
    resp = make_response(render_template('/index.html', msg="1-5kg of rubbish added to cart!"))
    resp.set_cookie('qty1', str(safe_get_cookies('qty1') + 1))
    return resp
```

What this code does is re-render the index.html page with the pop-up message. It then sets the cookie for the cart item in question to its value plus one.

```
@app.route('/rem_cart_1')
def rem_cart_1():
    resp = make_response(render_template('/cart.html',
    qty1=safe_get_cookies('qty1'),
    qty2=safe_get_cookies('qty2'),
    qty3=safe_get_cookies('qty3'),
    qty4=safe_get_cookies('qty4'),
    ))
    resp.set_cookie('qty1', str(max(safe_get_cookies('qty1') - 1, 0)))
    return resp
```

Removal of cart items is somewhat more complex. In this case, we have to re-render the cart page, and set the quantities for each product based on what has been retrieved from the cookies. This can also be done through JavaScript, but this method is using server-side rendering and thus requires an implementation in Python.

```python
@app.route('/checkout', methods=['POST'])
def do_login():
    email = request.form['email']
    qty1 = safe_get_cookies("qty1")
    qty2 = safe_get_cookies("qty2")
    qty3 = safe_get_cookies("qty3")
    qty4 = safe_get_cookies("qty4")
    e = "ee"
    # add to db
    no = str(random.randint(1, 99999))
    params = (no, email, qty1, qty2, qty3, qty4)
    c.execute("INSERT INTO orders VALUES (?, ?, ?, ?, ?, ?)", params)

    # Gen PDF

    pdf = FPDF(orientation = 'P', unit = 'mm', format = 'A4')
    pdf.add_page()
    pdf.set_font('Arial', 'B', 24)
    pdf.cell(0, ln=1, h=20, txt='Receipt from Canning Garbage Dump')
    pdf.set_font('Arial', 'BI', 20)
    pdf.cell(w=20, ln=1, h=20, txt='Thank you for your purchase, we will be in contact shortly.')
    pdf.set_font('Arial', '', 18)
```

Finally, a function which generates a PDF based on the info given to it.

1.3.

The main server, srv.py, serves webpages when they are requested by the client with additional local cookie information fetched from local storage.

```
@app.route('/')
def serve_index():
    return render_template('/index.html', msg=None)

@app.route('/cart')
def serve_cart():
    return render_template('/cart.html',
    qty1=safe_get_cookies('qty1'),
    qty2=safe_get_cookies('qty2'),
    qty3=safe_get_cookies('qty3'),
    qty4=safe_get_cookies('qty4'),
    )

@app.route('/<path:path>')
def send_js(path):
    return send_from_directory("work", path)
```

The function send_js sends files requested from the work directory.

The serve_cart() function sends the cart.html with additional parameters - in this case, this excludes the quantity for each product on the page. The cookies are “safely” retrieved (0 is the minimum, no negative values allowed) before being displayed.

The index serving function renders the file, index.html, with no message on the pop-up modal, so a pop-up message will not be rendered.