

## BUGS found during my MS4 Code Institute Project

The following are some of the issues I had during the creation of my MS4 project. They are not in any order, but I have tried to list them with the most recent first: -

1. ISSUE:

If no user logged in then the 'shop now' button on index.html page would bring a python message error

SOLUTION:

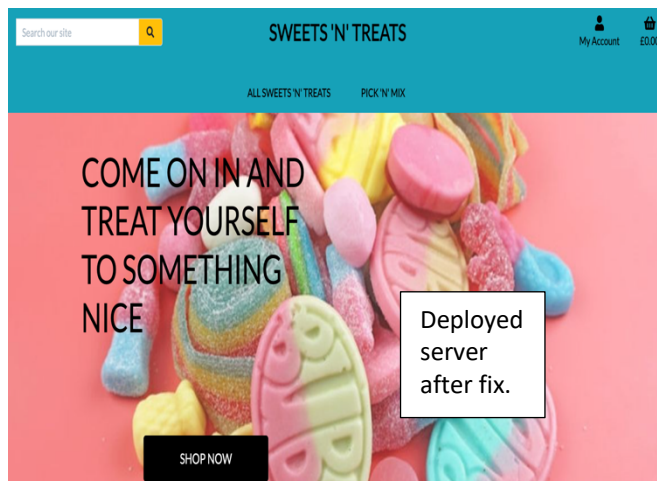
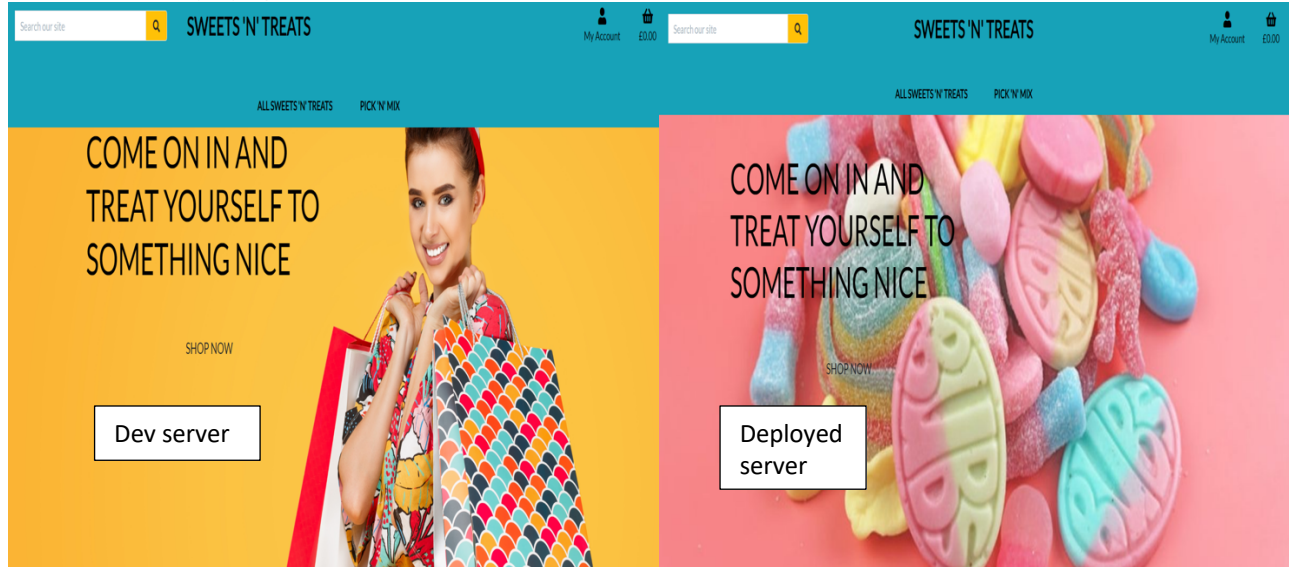
```
def all_products(request):
    """ A view to show all products, including sorting and search queries """

    products = Product.objects.all()
    query = None
    categories = None
    sort = None
    direction = None
    if request.user.is_authenticated: (THIS WAS ADDED TO TEST IF A USER WAS LOGGED IN)
        favourites_search = Favourite.objects.filter(user_profile=request.user)
        favourites = [favourite.product.name for favourite in favourites_search]
    if request.user.is_authenticated: THIS WAS ADDED TO CHECK IF A USER IS LOGGED IN
        context = {
            'products': products,
            'search_term': query,
            'current_categories': categories,
            'current_sorting': current_sorting,
            'favourites': favourites,
        }
        return render(request, 'products/products.html', context)
    else: IF NO USER LOGGED IN THEN THE SITE WILL OPEN FOR A NON USER WITHOUT A FAVOURITE MODEL
        context = {
            'products': products,
            'search_term': query,
            'current_categories': categories,
            'current_sorting': current_sorting,
        }
        return render(request, 'products/products.html', context)
```

The highlighted sections were added to check if a user was logged in to the console. If there is a user then they are able to add an item as a favourite. If the user is not logged in or registered then they can still access the site, make a purchase, etc but are unable to add an item as a favourite.

## 2. ISSUE:

Development server and Deployment servers showing two different versions of project, with out-of-date css (most recent css not displaying)



The main issue seemed to be that the development server wasn't connected properly to the AWS (Amazon Web Service) and the settings in Heroku and in the settings.py of the Gitpod development server were not set up correctly for my Amazon services.

### SOLUTION:

Changed both the AWS settings in the dev server and in Heroku. CSS styled correctly

## 3. ISSUE:

Setting up a model to add, edit and delete reviews that were created by the user

TemplateDoesNotExist at /basket/

basket/product-info.html

```
Request Method: GET
Request URL: http://localhost:8000/basket/
Django Version: 3.2
Exception Type: TemplateDoesNotExist
Exception Value: basket/product-info.html
Exception Location: /workspace/.pip-modules/lib/python3.8/site-packages/django/template/backends/django.py, line 84, in render
Python Executable: /home/gitpod/.pyenv/versions/3.8.11/bin/python3
Python Version: 3.8.11
Python Path: ['/workspace/sweetstreats',
               '/home/gitpod/.pyenv/versions/3.8.11/lib/python3.8.zip',
               '/home/gitpod/.pyenv/versions/3.8.11/lib/python3.8',
               '/home/gitpod/.pyenv/versions/3.8.11/lib/python3.8/site-packages',
               '/workspace/.pip-modules/lib/python3.8/site-packages',
               '/home/gitpod/.pyenv/versions/3.8.11/lib/python3.8/site-packages']
Server time: Fri, 19 Feb 2022 14:45:29 +0000
```

### Template-loader postmortem

Django tried loading these templates, in this order:

- Using engine `django`:
- This engine did not provide a list of tried templates.

### Error during template rendering

In template `/workspace/sweetstreats/templates/base.html`, error at line 31

basket/product-info.html

```
21: {% block corecss %}
22: <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css" integrity="sha384-Vkoo84"
23: <link rel="stylesheet" href="https://fonts.googleapis.com">
24: <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
25: <link rel="stylesheet" href="https://fonts.googleapis.com/css2?family=Lato&display=swap">
26: <!-- favicons -->
27: <link rel="apple-touch-icon" sizes="180x180" href="{% static 'favicon/apple-touch-icon.png' %}">
28: <link rel="icon" type="image/png" sizes="32x32" href="{% static 'favicon/favicon-32x32.png' %}">
29: <link rel="icon" type="image/png" sizes="16x16" href="{% static 'favicon/favicon-16x16.png' %}">
30: <!-- user css -->
31: <link rel="stylesheet" href="{% static 'css/base.css' %}">
32: {% endblock %}
```

```
class Reviews(models.Model):
    class Meta:
        verbose_name_plural = 'Reviews'

    product = models.ForeignKey(
        Product, default=None, on_delete=models.CASCADE,
        related_name='reviews'
    )
    author = models.ForeignKey(
        User, on_delete=models.PROTECT, null=True, blank=True
    )
    review_title = models.TextField(max_length=254)
    review_body = models.TextField(max_length=1000)
    date_added = models.DateTimeField(auto_now_add=True)
    active = models.BooleanField(default=True)

    class Meta:
        ordering = ['-date_added']

    def __str__(self):
        return self.review_title
```

### SOLUTION:

The class to show reviews had errors which I hadn't spotted. I had 'reviews' (plural) in my code and not 'review' (singular). Therefore, this was creating a template error.

Fixing this, I was able to add a review but then had the following bug:

#### 4. ISSUE:

The parameter names in both delete\_review path in urls.py and in the views.py, were not same name

```
NameError at /products/delete_review/test
name 'product' is not defined

Request Method: POST
Request URL: http://localhost:8000/products/delete_review/test
Django Version: 3.2
Exception Type: NameError
Exception Value: name 'product' is not defined
Exception Location: /workspace/sweetstreats/products/views.py, line 196, in delete_review
Python Executable: /home/gitpod/.pyenv/versions/3.8.11/bin/python3
Python Version: 3.8.11
Python Path: ['/workspace/sweetstreats',
              '/home/gitpod/.pyenv/versions/3.8.11/lib/python3.8.zip',
              '/home/gitpod/.pyenv/versions/3.8.11/lib/python3.8',
              '/home/gitpod/.pyenv/versions/3.8.11/lib/python3.8/lib-dynload',
              '/workspace/.pip-modules/lib/python3.8/site-packages',
              '/home/gitpod/.pyenv/versions/3.8.11/lib/python3.8/site-packages']

Server time: Sat, 19 Feb 2022 15:18:27 +0000
```

```
Traceback Switch to copy-and-paste view
/workspace/.pip-modules/lib/python3.8/site-packages/django/core/handlers/exception.py, line 47, in inner
47.         response = get_response(request)
    ► Local vars

/workspace/.pip-modules/lib/python3.8/site-packages/django/core/handlers/base.py, line 181, in _get_response
181.         response = wrapped_callback(request, *callback_args, **callback_kwargs)
    ► Local vars

/workspace/.pip-modules/lib/python3.8/site-packages/django/contrib/auth/decorators.py, line 21, in _wrapped_view
21.         return view_func(request, *args, **kwargs)
    ► Local vars

/workspace/sweetstreats/products/views.py, line 196, in delete_review
196.         reviews = product.reviews.get(Reviews, reviews_title)
    ► Local vars
```

#### SOLUTION:

I changed all paths to 'review\_title' for the parameter names.

However, there was still an issue with the review model

#### 5. ISSUE:

Creating a review was working but I was unable to delete it after it was created.

#### ValueError at /products/delete\_review/test2

too many values to unpack (expected 2)

```
Request Method: POST
Request URL: http://localhost:8000/products/delete_review/test2
Django Version: 3.2
Exception Type: ValueError
Exception Value: too many values to unpack (expected 2)
Exception Location: /workspace/.pip-modules/lib/python3.8/site-packages/django/db/models/sql/query.py, line 1286, in build_filter
Python Executable: /home/gitpod/.pyenv/versions/3.8.11/bin/python3
Python Version: 3.8.11
Python Path: ['/workspace/sweetstreats',
              '/home/gitpod/.pyenv/versions/3.8.11/lib/python3.8.zip',
              '/home/gitpod/.pyenv/versions/3.8.11/lib/python3.8',
              '/home/gitpod/.pyenv/versions/3.8.11/lib/python3.8/lib-dynload',
              '/workspace/.pip-modules/lib/python3.8/site-packages',
              '/home/gitpod/.pyenv/versions/3.8.11/lib/python3.8/site-packages']

Server time: Sat, 19 Feb 2022 16:01:41 +0000
```

#### SOLUTION:

The review was missing a product.id to link to the review and the app was unable to link the review to the product until this was provided.

#### 6. ISSUE:

Images and files not displaying on dev or deployment servers

TemplateDoesNotExist at /basket/

basket/product-info.html

```
Request Method: GET
Request URL: http://localhost:8000/basket/
Django Version: 3.2
Exception Type: TemplateDoesNotExist
Exception Value: basket/product-info.html
Exception Location: /workspace/.pip-modules/lib/python3.8/site-packages/django/template/backends/django.py, line 84, in render
Python Executable: /home/gitpod/.pyenv/versions/3.8.11/bin/python3
Python Version: 3.8.11
Python Path: ['/workspace/sweetstreats',
              '/home/gitpod/.pyenv/versions/3.8.11/lib/python3.8.zip',
              '/home/gitpod/.pyenv/versions/3.8.11/lib/python3.8',
              '/home/gitpod/.pyenv/versions/3.8.11/lib/python3.8/lib-dynload',
              '/workspace/.pip-modules/lib/python3.8/site-packages',
              '/home/gitpod/.pyenv/versions/3.8.11/lib/python3.8/site-packages']

Server time: Fri, 18 Feb 2022 14:45:23 +0000
```

#### Template-loader postmortem

Django tried loading these templates, in this order:

Using engine `django`:

- This engine did not provide a list of tried templates.

#### Error during template rendering

In template `/workspace/sweetstreats/templates/base.html`, error at line 31

```
basket/product-info.html
21.         {% block corecss %}
22.         <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css" integrity="sha384-Vkoo8x0"
23.         <link rel="preconnect" href="https://fonts.googleapis.com">
24.         <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
25.         <link rel="stylesheet" href="https://fonts.googleapis.com/css2?family=Lato&display=swap">
26.         <!-- favicon -->
27.         <link rel="apple-touch-icon" sizes="180x180" href="{% static 'favicon/apple-touch-icon.png' %}">
28.         <link rel="icon" type="image/png" sizes="32x32" href="{% static 'favicon/favicon-32x32.png' %}">
29.         <link rel="icon" type="image/png" sizes="16x16" href="{% static 'favicon/favicon-16x16.png' %}">
30.         <!-- user css -->
31.         <link rel="stylesheet" href="{% static 'css/base.css' %}">
32.         {% endblock %}
--
```

#### SOLUTION:

Migrations needed to be made to Heroku. I logged into Heroku via the terminal with Heroku login -I and entered email address and password.

I then had to change some settings in my dev terminal

In the end I had to dump the information from the sqlite database into a file and edit/format it and delete excess entries.

Smaller bugs on coding were found during the creation of this website and the various models. Some of these errors/bugs were solved very quickly and have not been included in this bug report.

If time allows, more documentation will be included in this document after this message but due to time constraints on submission I have included the issues that created the biggest issues.