

## 部署Django项目

这是一个没有部署手册，也没有requirements.txt依赖文件，乍看无从下手部署的三无产品；当你进入根路径执行python manage.py就会直接报错项目缺少某某第三方库。

所以解决这个问题的第一步是先创建虚拟环境或先安装pipreqs库并执行生成requirements.txt依赖文件后，再接着往下部署：`pip install -r requirements.txt`

## 配置数据库地址

根据以往部署Django项目的经验来看，不能直接就python manage.py执行主程序，而是先去修改settings的数据库配置，如果它还应用了其他服务也需要一并修改

```
1 DATABASES = {
2     'default': {
3         'ENGINE': 'django.db.backends.mysql', # 默认
4         'NAME': 'foodforshare1', # 连接的数据库
5         'HOST': '127.0.0.1', # mysql的ip地址
6         'PORT': 3306, # mysql的端口
7         'USER': 'root', # mysql的用户名
8         'PASSWORD': 'arvind0508' # mysql的密码
9     }
10 }
```

tips: 执行本地sql脚本的时候，有些table有指定字符集，因为mysql版本问题，它不支持，所以需要替换一下：`utf8_general_ci --> utf8_general_ci`

## 启动服务

参考以往部署Django的项目，都有什么前后台服务、还有数据库迁移等等操作，因为这里没有部署文档，只有sql脚本，于是先修改settings中的mysql配置之后，就开始执行，哪里报错修哪里。

```
1 # 默认打开是本地127.0.0.1:8000 后面可以指定ip地址及端口
2 python manage.py runserver
```

## 问题来了

### 问题一：

安装pipreqs报错，这是常见的问题，修改源码即可

```
1 (myDjango) D:\javaworkspace\SpareFoodShare>pipreqs .
2 Traceback (most recent call last):
3   File "d:\anaconda3\envs\mydjango\lib\runpy.py", line 192, in _run_module
    _as_main
4   return _run_code(code, main_globals, None,
5   File "d:\anaconda3\envs\mydjango\lib\runpy.py", line 85, in _run_code
6   exec(code, run_globals)
```

```

7 File "D:\anaconda3\envs\myDjango\Scripts\pipreqs.exe\__main__.py", line
7, in <module>
8 File "d:\anaconda3\envs\mydjango\lib\site-packages\pipreqs\pipreqs.py",
line 488, in main
9 init(args)
10 File "d:\anaconda3\envs\mydjango\lib\site-packages\pipreqs\pipreqs.py",
line 415, in init
11 candidates = get_all_imports(input_path,
12 File "d:\anaconda3\envs\mydjango\lib\site-packages\pipreqs\pipreqs.py",
line 115, in get_all_imports
13 contents = f.read()
14 UnicodeDecodeError: 'gbk' codec can't decode byte 0xa2 in position 1002:
illegal multibyte sequence

```

### 解决办法

找到报错的最后一行：d:\anaconda3\envs\mydjango\lib\site-packages\pipreqs\pipreqs.py;

因为它上面的open打开文件encoding编码使用了默认的编码格式，这里需要指定：utf-8

### 问题二：

因为在本地部署，数据库在另外一台服务器上，导致无法正确对数据库操作，故而部署到与mysql同一台服务器：配置的nginx无法正确访问域名，需要做好了域名映射。

```

1 server {
2     listen 80;
3     server_name dev.shop.com;
4
5
6     location / {
7         proxy_pass http://127.0.0.1:8000;
8         proxy_redirect off;
9         proxy_set_header Host $host;
10        proxy_set_header Http-referer $http_referer;
11        proxy_set_header X-Forwarded-Proto $scheme;
12        proxy_set_header X-Real-IP $remote_addr;
13        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
14    }
15 }
16

```

### 问题三：

Django运行访问项目出现的问题:DisallowedHost at / Invalid HTTP\_HOST header:

```

1 DisallowedHost at /

```

```

2 Invalid HTTP_HOST header: '10.211.55.6:8000'. You may need to add u'10.21
1.55.6' to ALLOWED_HOSTS.
3
4 Request Method: GET
5 Request URL: http://10.211.55.6:8000/
6 Django Version: 1.10.4
7 Exception Type: DisallowedHost
8 Exception Value:
9 Invalid HTTP_HOST header: '10.211.55.6:8000'. You may need to add u'10.21
1.55.6' to ALLOWED_HOSTS.
10 Exception Location: /usr/lib/python2.7/site-packages/django/http/requests.py in get_host, line 113
11 Python Executable: /usr/bin/python
12 Python Version:

```

修改 setting.py 文件: `ALLOWED_HOSTS = ['*']` # 在这里请求的host添加了 \*

#### 问题四:

访问网址之后, F12可以看到一些图片为破图, 不是不存在就是占位图, 第一解决思路就去项目文件夹下寻找是否有写死在html页面中, 有则替换;  
没有就需要去追踪它是从哪里来的。结果是数据库insert的数据, 所以通过百度找图片复制地址一个个的替换即可, 好在不多150+条记录而已。可使用update更新成同样的图片

releaseDate	expiredDate	categories	price	description	quantity	postcode	location	picture
2022-04-17	2022-09-03	Fruit and vegetables	76.26	It provides strong authentication	2	LA21 8LA	Liverpool	https://img2.baidu.com/image_search/src=http%3A%2F%2Fv
2022-03-31	2022-07-04	Dairy	72.05	Typically, it is employed a	13	C88 0BT	London	https://img2.baidu.com/image_search/src=http%3A%2F%2Fv
2022-01-20	2022-07-14	Protein	46.75	Navicat authorizes you to	11	DD9 7EF	London	https://img2.baidu.com/image_search/src=http%3A%2F%2Fv
2022-02-17	2022-08-14	Dairy	49.16	Actually it is just in an ide	16	PA30 8EW	Liverpool	https://img2.baidu.com/image_search/src=http%3A%2F%2Fv
2022-02-08	2022-08-07	Starchy food	8.31	Anyone who has ever mai	20	PA30 8EW	Manchester	https://img2.baidu.com/image_search/src=http%3A%2F%2Fv
2022-01-09	2022-09-16	Dairy	9.69	Secure Sockets Layer(SSL	4	C88 0BT	Manchester	https://img2.baidu.com/image_search/src=http%3A%2F%2Fv
2022-03-25	2022-06-13	Protein	59.23	If the Show objects under	2	DD9 7EF	Manchester	https://img2.baidu.com/image_search/src=http%3A%2F%2Fc
2022-01-28	2022-09-21	Dairy	53.47	Remember that failure is	8	C88 0BT	Liverpool	https://img2.baidu.com/image_search/src=http%3A%2F%2Fn
2022-04-09	2022-08-06	Dairy	24.98	Actually it is just in an ide	7	S41 7LH	Birmingham	https://img2.baidu.com/image_search/src=http%3A%2F%2Fc
2022-01-13	2022-08-07	Protein	65.42	If the Show objects under	8	C88 0BT	Cambridge	https://img2.baidu.com/image_search/src=http%3A%2F%2Fc
2022-04-11	2022-06-15	Protein	51.85	To clear or reload variou	18	C88 0BT	Birmingham	https://img2.baidu.com/image_search/src=http%3A%2F%2Fn
2022-03-22	2022-07-28	Protein	86.52	Navicat is a multi-connect	3	DD9 7EF	Birmingham	https://img2.baidu.com/image_search/src=http%3A%2F%2Fi
2022-02-23	2022-06-21	Protein	87.58	Always keep your eyes o	16	DD9 7EF	Oxford	https://img2.baidu.com/image_search/src=http%3A%2F%2Fi
2022-01-24	2022-07-04	Fat	22.77	After comparing data, the	4	DD9 7EF	London	https://img2.baidu.com/image_search/src=http%3A%2F%2Fv
2022-01-16	2022-09-08	Fruit and vegetables	83.33	To get a secure connecti	4	KA30 8EW	Leicester	https://img2.baidu.com/image_search/src=http%3A%2F%2Fc
2022-03-01	2022-06-16	Dairy	54.00	It can also manage cloud	4	C88 0BT	Oxford	https://img2.baidu.com/image_search/src=http%3A%2F%2Fv
2022-04-28	2022-05-06	Starchy food	49.92	Instead of wondering wh	18	SO15 5DX	Oxford	https://img2.baidu.com/image_search/src=http%3A%2F%2Fc
2022-02-07	2022-07-23	Fat	76.44	Anyone who has ever mai	19	PA30 8EW	Liverpool	https://img2.baidu.com/image_search/src=http%3A%2F%2Fn
2022-03-01	2022-07-26	Starchy food	42.53	The Synchronize to Datab	6	KA30 8EW	Oxford	https://img2.baidu.com/image_search/src=http%3A%2F%2Fv
2022-02-09	2022-09-16	Protein	46.11	To connect to a database	12	C88 0BT	Oxford	https://img2.baidu.com/image_search/src=http%3A%2F%2Fn
2022-01-12	2022-05-26	Dairy	99.55	Typically, it is employed a	10	DD9 7EF	Birmingham	https://img2.baidu.com/image_search/src=http%3A%2F%2Fn
2022-01-24	2022-09-06	Fat	52.60	You will succeed because	13	C88 0BT	Leicester	https://img2.baidu.com/image_search/src=http%3A%2F%2Fv
2022-02-14	2022-09-07	Protein	30.82	To get a secure connecti	16	ME2 4ER	Liverpool	https://img2.baidu.com/image_search/src=http%3A%2F%2Fn
2022-02-12	2022-09-13	Dairy	69.96	You get by achiev	16	SO15 5DX	Oxford	https://img2.baidu.com/image_search/src=http%3A%2F%2Fv
2022-03-27	2022-08-26	Fruit and vegetables	31.84	Navicat Data Modeler en	15	BS28 4JT	Manchester	https://img2.baidu.com/image_search/src=http%3A%2F%2Fn
2022-04-30	2022-08-23	Starchy food	10.65	Navicat is a multi-connect	0	BS28 4JT	Oxford	https://img2.baidu.com/image_search/src=http%3A%2F%2Fn
2022-01-14	2022-07-02	Fat	23.65	Actually it is just in an ide	5	BS28 4JT	Cambridge	https://img2.baidu.com/image_search/src=http%3A%2F%2Fn
2022-01-15	2022-05-14	Fruit and vegetables	67.49	It wasn't raining when No	14	ME2 4ER	Leicester	https://img2.baidu.com/image_search/src=http%3A%2F%2Fc
2022-04-17	2022-09-16	Fruit and vegetables	96.07	You will succeed because	3	BS28 4JT	Leicester	https://img2.baidu.com/image_search/src=http%3A%2F%2Fn
2022-03-06	2022-07-11	Fruit and vegetables	10.91	You will succeed because	5	S41 7LH	Manchester	https://img2.baidu.com/image_search/src=http%3A%2F%2Fn
2022-04-04	2022-06-13	Fruit and vegetables	26.11	The On Startup feature al	10	S41 7LH	Oxford	https://img2.baidu.com/image_search/src=http%3A%2F%2Fn
2022-04-10	2022-09-10	Fruit and vegetables	60.53	After logged in the Navic	10	PA30 8EW	London	https://img2.baidu.com/image_search/src=http%3A%2F%2Fn
2022-01-01	2022-09-17	Fruit and vegetables	5.69	To open a query using ar	0	SO15 5DX	Birmingham	https://img2.baidu.com/image_search/src=http%3A%2F%2Fn
2022-04-02	2022-06-12	Starchy food	12.70	Anyone who has never m	17	AB16 6PH	Birmingham	https://img2.baidu.com/image_search/src=http%3A%2F%2Fn

#### 问题五:

Django项目常见报错问题

```
1 'AnonymousUser' object has no attribute 'email'
```

Request Method: POST

Request URL: http://192.168.2.211:8000/contact/11

Django Version:	3.2.5
Exception Type:	AttributeError
Exception Value:	'AnonymousUser' object has no attribute 'email'
Exception Location:	/usr/local/myDjango/lib64/python3.6/site-pac in inner
Python Executable:	/usr/local/myDjango/bin/python

修改payments/views.py第483行，让这个email生效，或者try捕获异常，不处理它并且给它一个email地址，让它成功发送，刷新结果如下：



**Success! Your operation has been completed!**

#### 问题六：

分享食物报错：

```
1 IndexError at /upload/
2 list index out of range
```

Request Method:	POST
Request URL:	http://192.168.2.211:8000/upload/
Django Version:	3.2.5
Exception Type:	IndexError
Exception Value:	list index out of range
Exception Location:	/usr/local/myDjango/lib64/python3.6/ __getitem__
Python Executable:	/usr/local/myDjango/bin/python

得继续找错/payments/views.py

```
#specificuser = [{"id":1}]
try:
    id = specificuser[0].id
except:
    id = 1
    pass
Name = request.POST.get("Name")
Zip_Code = request.POST.get("Zip Code")
Category = request.POST.get("Category")
quantity = request.POST.get("quantity")
Location = request.POST.get("Location")
exdate = request.POST.get("exdate")
price = request.POST.get("price")
Description = request.POST.get("Description")
picture = request.FILES.get("picture")

if len(Name)==0 or len(Zip_Code)==0 or len(Category)==0 or len(quantity)==0 or len(Location)==0 or len(exdate)==0 or len(price)==0 or len(Description)==0:
    return render(request, "upload.html", {"error_msg": "Please fill in the blank completely"})

else:
    f = open("static/" + str(id) + "_" + Name + ".jpg", mode='wb+')
    for chunk in picture.chunks():
        f.write(chunk)
    f.close()
    #absolute_path = os.path.abspath(picture.name)
    absolute_path = "/static/" + str(id) + "_" + Name + ".jpg"

    conn = pymysql.connect(host='192.168.2.211', port=3306, user='root', passwd='123456', db='foodforshare1',
                           charset='utf8')
    cursor = conn.cursor(cursor=pymysql.cursors.DictCursor)
```

获取这个id，只是为了保存图片地址，访问static目录下的图片

难怪有些时候，保存图片会说权限不存在，不是所有sql操作都是settings

所以修改了id以及数据库的直接操作，输入正确的地址和帐号密码，但不止一处，upload\_csv也需要修改；

## Success! Your operation has been completed!

修改代码，当前上传csv数据文件时，没有csv文件直接报错，不去error页面

```
def upload_csv(request):
    #Now Time!
    redate=time()

    conn = pymysql.connect(host='192.168.2.211', port=3306, user='root', passwd='pdP2PEo0ZSeiDrm6T280RE6k', db='foodforshare1',
                           charset='utf8')
    cursor = conn.cursor(cursor=pymysql.cursors.DictCursor)

    file_obj = request.FILES.get("csv_ex")
    try:
        wb = load_workbook(file_obj)
    except:
        return render(request, "upload.html", {"error_msg": "Please upload the csv file"})
    sheet = wb.worksheets[0]

    users = User.objects.all()
    specificuser = users.filter(email=request.user.email)
    id = specificuser[0].id

    for row in sheet.iter_rows(min_row=2):

        sql = "INSERT INTO 'food' ('userID', 'foodname', 'releaseDate', 'expiredDate', 'categories', 'price', 'description', 'quantity', 'postcode', 'location', 'pa"
        "VALUES (%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s)"

        values = (id, row[0].value, redate, row[1].value, row[2].value, row[3].value, row[4].value, row[5].value, row[6].value, row[7].value, row[8].value)

        cursor.execute(sql, values)

    sql1 = "SELECT @identity"
    #cursor.execute(sql, values)
```

在当前页提示错误信息，不跳转框架error页面

问题六：支付问题，需要这个文档中的账号<https://stripe.com/docs/testing>

问题七：

需要安装<https://github.com/JazzCore/python-pdfkit/wiki/Installing-wkhtmltopdf>，查看图画面板

## OSError at /dashboard/

No wkhtmltopdf executable found: "C:\Program Files\wkhtmltopdf\bin\wkhtmltopdf.exe"

If this file exists please check that this process can read it or you can pass path to it manually in method call, check README. Otherwise please install wkhtmltopdf - <https://github.com/JazzCore/python-pdfkit/wiki/Installing-wkhtmltopdf>

```
Request Method: GET
Request URL: http://192.168.2.211:8000/dashboard/
Django Version: 3.2.5
Exception Type: OSError
Exception Value: No wkhtmltopdf executable found: "C:\Program Files\wkhtmltopdf\bin\wkhtmltopdf.exe"
                If this file exists please check that this process can read it or you can pass path to it manually in method call, check README. Otherwise please install wkhtmltopdf - https://github.com/JazzCore/python-pdfkit/wiki/Installing-wkhtmltopdf
Exception Location: /usr/local/myDjango/lib64/python3.6/site-packages/pdfkit/configuration.py, line 42, in __init__
Python Executable: /usr/local/myDjango/bin/python
Python Version: 3.6.8
Python Path: ['/usr/local/myDjango/bin',
              '/usr/lib64/python36.zip',
              '/usr/lib64/python3.6',
              '/usr/lib64/python3.6/lib-dynload',
              '/usr/local/myDjango/lib64/python3.6/site-packages',
              '/usr/local/myDjango/lib/python3.6/site-packages']
Server time: Mon, 09 May 2022 07:11:56 +0000
```

## 问题八

还有很多其他问题无外乎payment/views.py、shop/views.py、templates下面的py模块；views是视图，直接影响页面操作，如果只是为了让UI自动化测试通过，可以简单修改代码，放开限制，不做校验或者赋给默认值。

## 问题九

一开始最多的问题，操作UI功能时会出现mysql异常，权限不足，原因是在某些py模块中，直接调用了pymysql模块并且使用的配置也不是settings中的配置