# Freezer Contents

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## The packages needed for building a web app

python with packages installed using pip

```
1 from flask import Flask, render_template, redirect, url_for, request
2 from flask sqlalchemy import SQLAlchemy
3 from flask login import LoginManager,UserMixin, login_user,login_required,logout_user,current_user
4 from datetime import datetime
5 from sqlalchemy import and_
6 from pws import hash_password, verify_password
7
```

- sqlite database
- flask sqlalchemy with packages installed
- html and css with bootstrap libraries
- jinja template
- github and git bash
- postgres and heroku

### Making the section to add and search for items in the freezer

the app.py

```
26
27 v class Freezer(db.Model):
28 id = db.Column(db.Integer, primary_key=True)
29 content = db.Column(db.String(200), nullable=False)
30 date_created = db.Column(db.DateTime, default=datetime.utcnow)
31 shelf_name = db.Column(db.String(200), nullable=True)
32 owner_id = db.Column(db.Integer,db.ForeignKey('user.id'))
33
```

```
66

Gapp.route('/freezer_contents',methods=['GET','POST'])

67 Glogin_required

68 def freezer_contents();

69

1 frequest.method == 'POST';

71

2 content = request.form('content')

73 content = content.lower()

74 shelf = request.form('helf_name')

75 shelf = request.form('helf_name')

76 new_record = freezer(content= content,shelf_name = shelf,owner_id = current_user.id)

77

78 v

1 try:

6b.session.add(new_record)

8d db.session.commit()

81

82 return redirect('/freezer_contents')

83

84 v except:

85 return 'There was an issue adding your task'

86

87 elif request.method == 'GET':

88 s = str(request.args.get('s')).lower()

60 c_t = str(request.args.get('c_t')).lower()

79 num = int(num-1)
```

the code to add or search is also found in the app.py:

shelf\_name = current\_user.freezers[i].shelf\_name
if shelf\_name == 'top':
 shelfs.append(each)
i=i+1

shelf\_name = current\_user.freezers[i].shelf\_name
1f shelf\_name == 'middle':

elif s=='middle':
 i=int(0)
 for each in current\_user.freezers:

html and css with jinja(?)

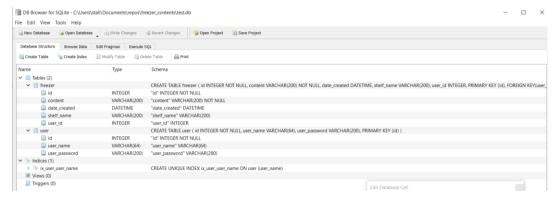
the app has a directory structure:

base.html has the code that is common to all pages, e.g. navbar:

### Setting up the configuration etc

This is done in python in app.py

this works fine for sqlite in development mode



pip3 install virtualenv

virtualenv env

\env\Scripts\activate.bat

this created virtual environment for app

python app.py

open browser 127.0.0.1:5000 as specified in cmd

open python shell: from app import db
db.create\_all()
exit()

This makes tables according to schema in app.py

### Making the user management section

the flask python code:

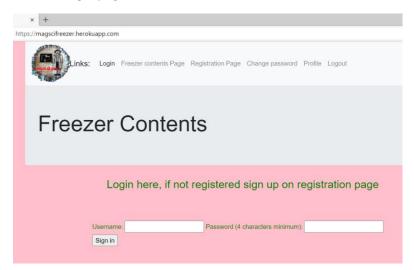
the Home pagen(index.html) has the login form:

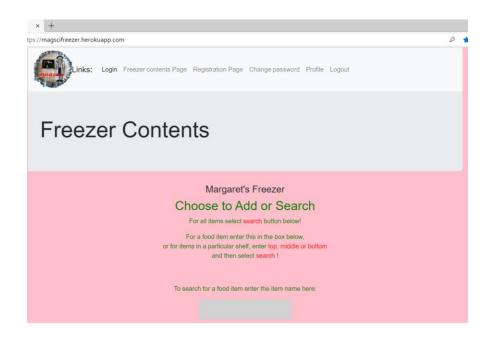
```
1 (% extends 'base.html'%)
2 (% block head %)
4 ctitle:Index page</title>
6 (% block body %)
5 (% block body %)
7 ddlv class = "content">
9 cp id = "info" style="text-align: center">login here, if not registered sign up on registration page<br/>
br>
6 (style="text-align: center">|
9 cp id = "info" style="text-align: center">|
10 v < (rom action="y" method = "post">|
11 clabel for="username" /2 (label) |
12 cinput type="username" /2 (label) |
13 clabel for="pass">Password (4 characters minimum):</label>
14 clabel for="pass">Password 'id="pass" name="pw" |
15 cinput type="password" id="pass" name="pw" |
16 minlength="4" required>
17 cinput type="submit" value="Sign in">|
18 cffora>|
19 chr |
19 chr |
20 chr |
21 (% endblock %)
```

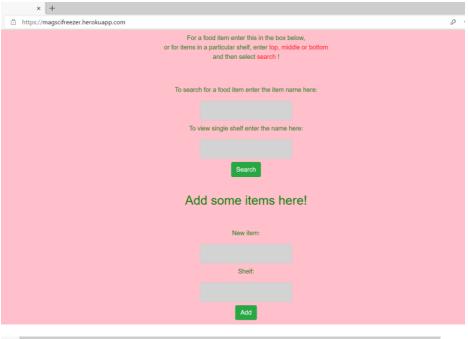
The registration page has similar code

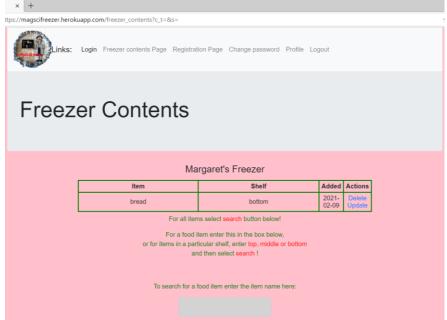
## What the pages look like

#### index or login page:









### Deployment

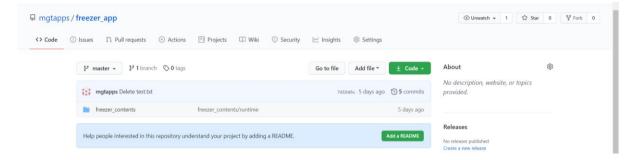
#### Github

in github I created a new repository:

git remote add origin <a href="https://github.com/remote\_link">https://github.com/remote\_link</a> (copied and psted from github)

then

git push origin master



I copied the link of this new remote repository

This should have initialised c/app\_folder as master

git config –global user.username mgtapps

git remote add origin <a href="https://github.com">https://github.com</a>

git push origin master

then configure email in a similar manner

The app folder needed Procfile with no file extension. This is achieved by saving in notepad but putting the name in the save as box in parentheses



the requirements.txt file needed to be generated:

pip freeze > requirements.txt

#### Heroku

I set up a free account in Heroku and used the steps in the video:

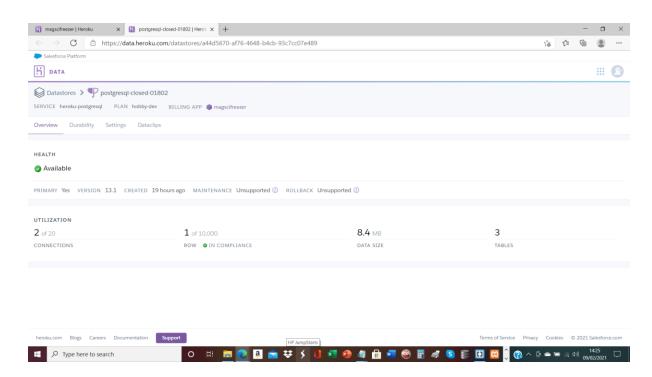
Deploy a Flask App to Heroku With a Postgres Database [2019] - YouTube

in local repository and then in Heroku:

flask d binit

#### flask db migrate

#### flsk db upgrade



### Maintenance

I will need to check that the app stays available.

the add may need to be updated based on feedback:

updating is achieved:

using git bask in local repository:

git add filename

git commit -am filename

git push heroku master

### Next steps

I may need to add a contact/help link to the app e.g. email

I may need to change the how the configuration setting have been added. I may experiment with a simpler system

may need to take out db.init\_app(app) form app.py