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Springboard Software Engineering Bootcamp
Flask Greet and Calc Exercice

Setup Your Environment

It will be more convenient if you always have an "environmental variable" that sets FLASK_ENV to "development", so you don't have to do that every time you open a new terminal window.

I use zsh / oh-my-zsh for a custom config, so I actually needed to edit .zshrc in ~ instead of .bash_profile or .bashrc. My .zshrc runs every time I open a new terminal.

Set Up Your Project

At the top level of this (inside flask-greet-calc), create a virtual environment:

```
r (~/Desktop/flask-greet-calc) (berryman@kaitlin:s000) (berryman@kaitlin:s000
```

Start using your venv:

Install Flask:

Make a "requirements.txt" file in this directory with a listing of all the software needed for this project:

Set Up Git

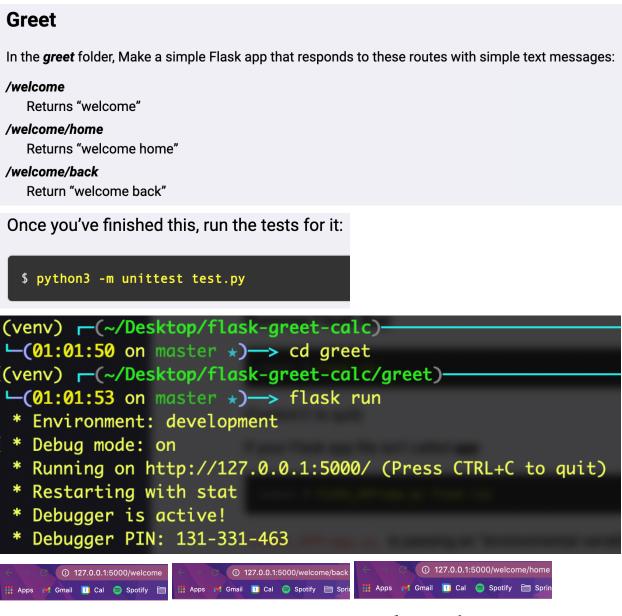
We want you to add this project to Git, so let's make our project a Git repository:

Then, since we don't want the venv/ folder put into Git (or send to GitHub), put it in a file called .gitignore:

```
(venv) \vdash(~/Desktop/flask-greet-calc) (berryman@kaitlin:s000) \vdash(00:57:19 on master \star) \rightarrow touch .gitignore .gitignore
```

You should test that Git is ignoring this file by making sure it doesn't appear as an untracked file in git status:

Greet



welcome welcome back welcome home

```
from flask import Flask

from flask import Flask

app = Flask(__name__)

def welcome():
    return "welcome"

def welcome_home():
    return "welcome home"

def welcome_home():
    return "welcome home"

def welcome_back():
    return "welcome back"

return "welcome back"
```

Calc

Calc

Build a simple calculator with Flask, which uses URL query parameters to get the numbers to calculate with.

Make a Flask app that responds to 4 different routes. Each route does a math operation with two numbers, **a** and **b**, which will be passed in as URL GET-style query parameters.

/add

Adds **a** and **b** and returns result as the body.

/sub

Same, subtracting **b** from **a**.

/mult

Same, multiplying a and b.

/div

Same, dividing a by b.

For example, a URL like http://localhost:5000/add?a=10&b=20 should return a string response of exactly 30.

Write the routes for this but **don't hardcode the math operation in your route function** directly. Instead, we've provided helper functions for this in the file **operations.py**:

```
app.py — calc
from flask import Flask, request
from operations import add, sub, mult, div
app = Flask(__name___)
@app.route('/add')
def add_route():
    a = int(request.args["a"])
    b = int(request.args["b"])
    return str(add(a, b))
@app.route('/sub')
def sub_route():
    a = int(request.args["a"])
    b = int(request.args["b"])
    return str(sub(a, b))
@app.route('/mult')
def mult_route():
    a = int(request.args["a"])
    b = int(request.args["b"])
    return str(mult(a, b))
@app.route('/div')
def div_route():
    a = int(request.args["a"])
    b = int(request.args["b"])
    return str(div(a, b))
```