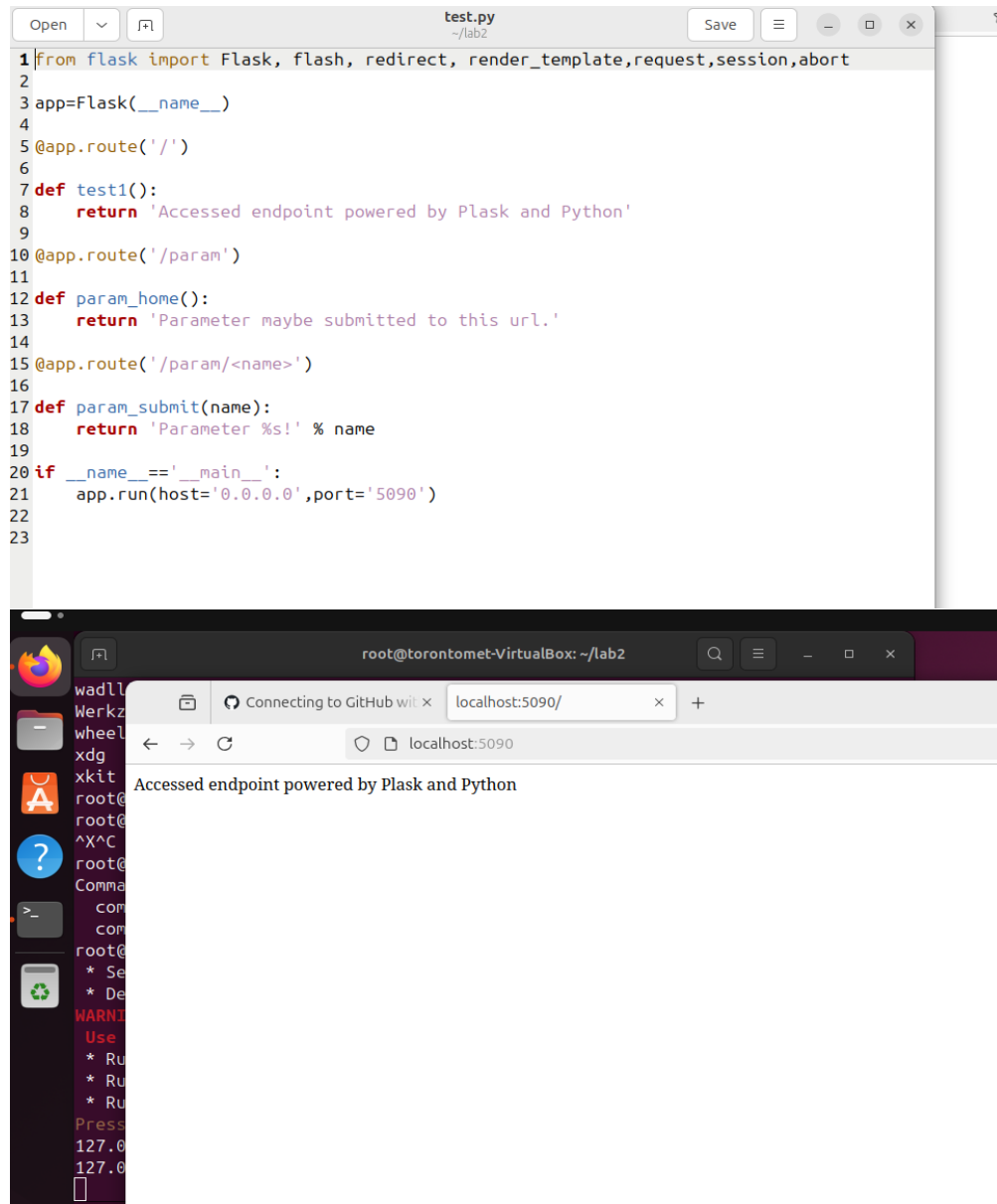


LAB 4: MIDDLEWARE WITH BACKEND

Date: October 22, 2024

1 Setup

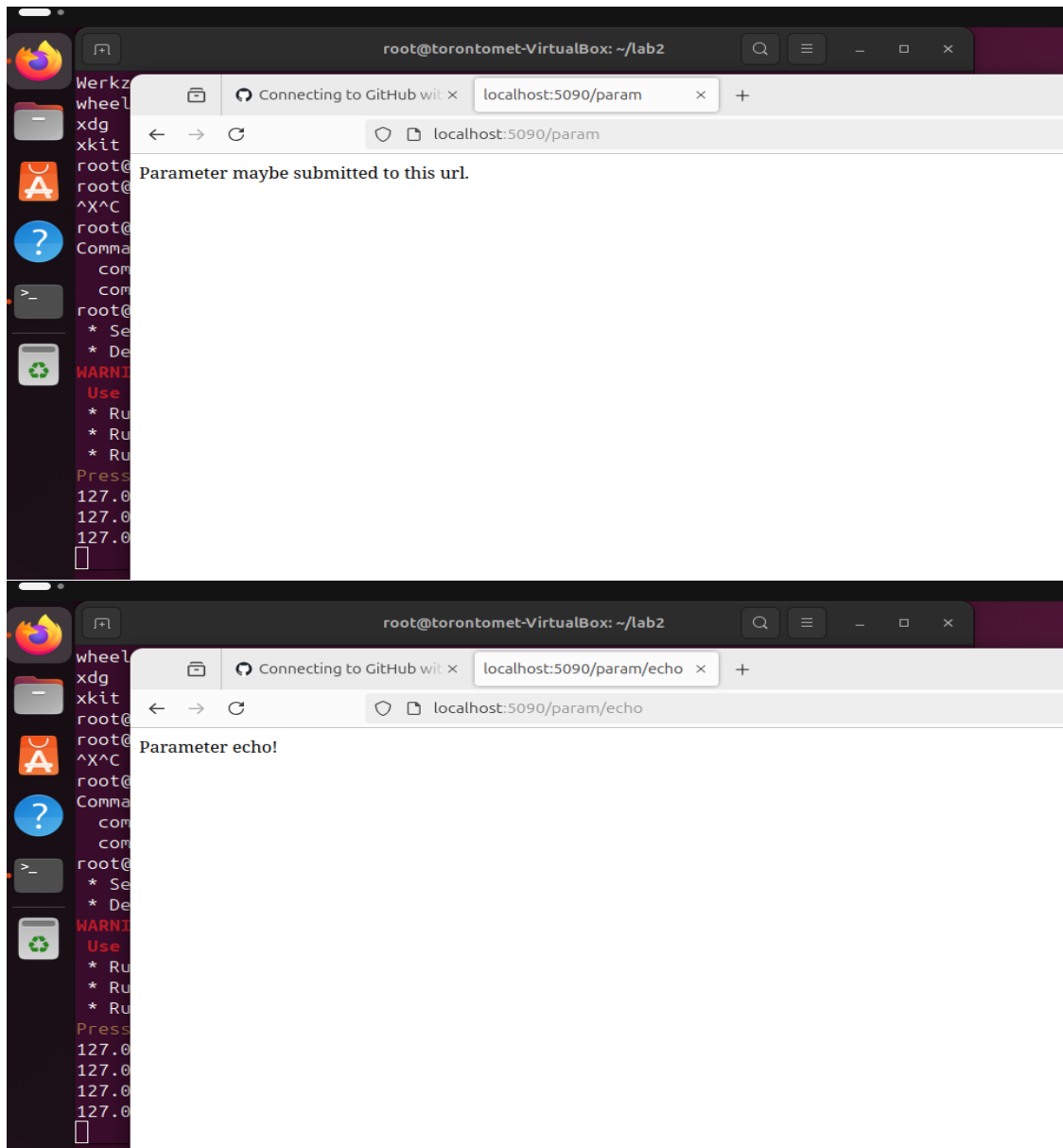


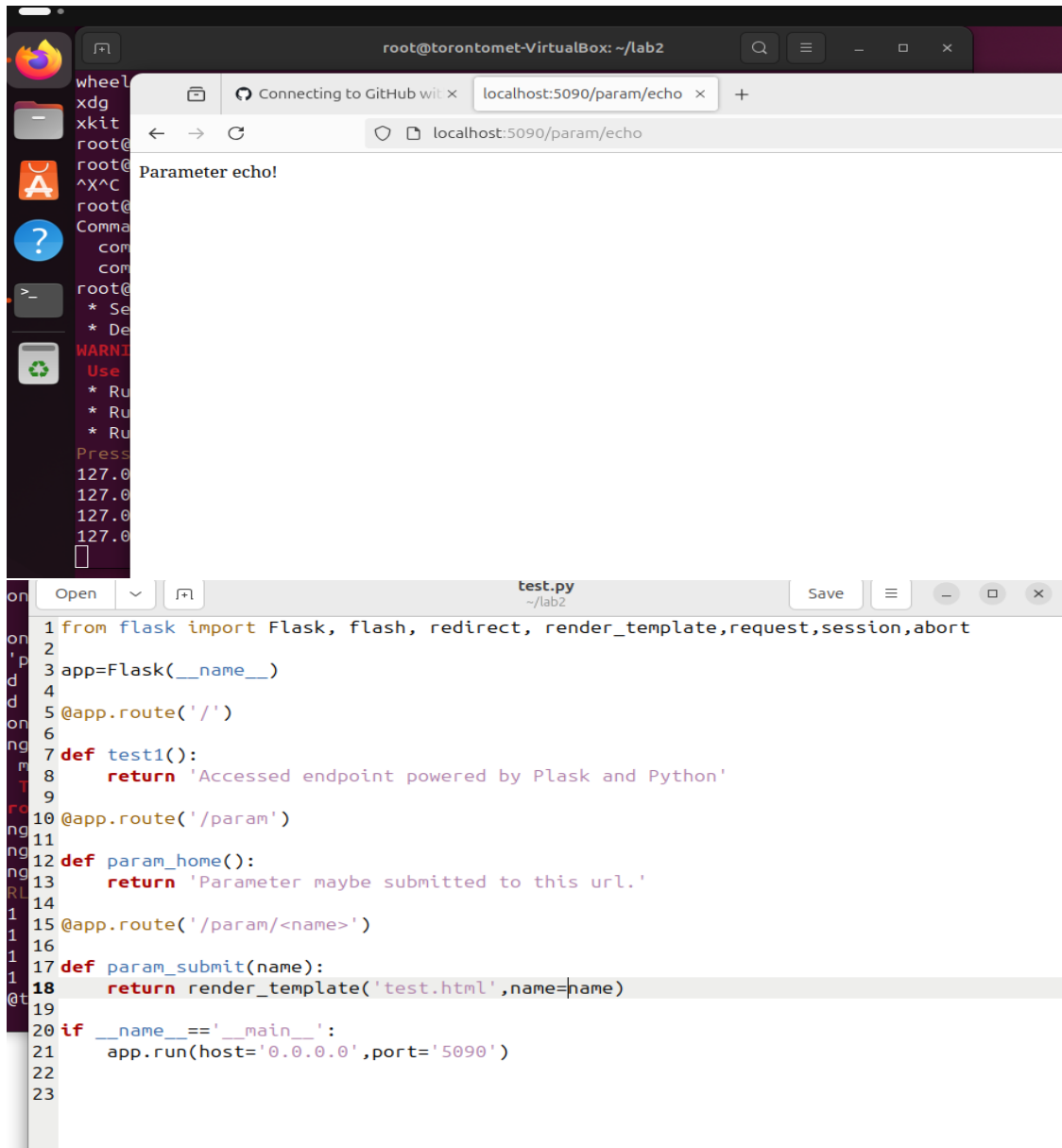
The image shows a code editor window titled 'test.py' with the following Python code:

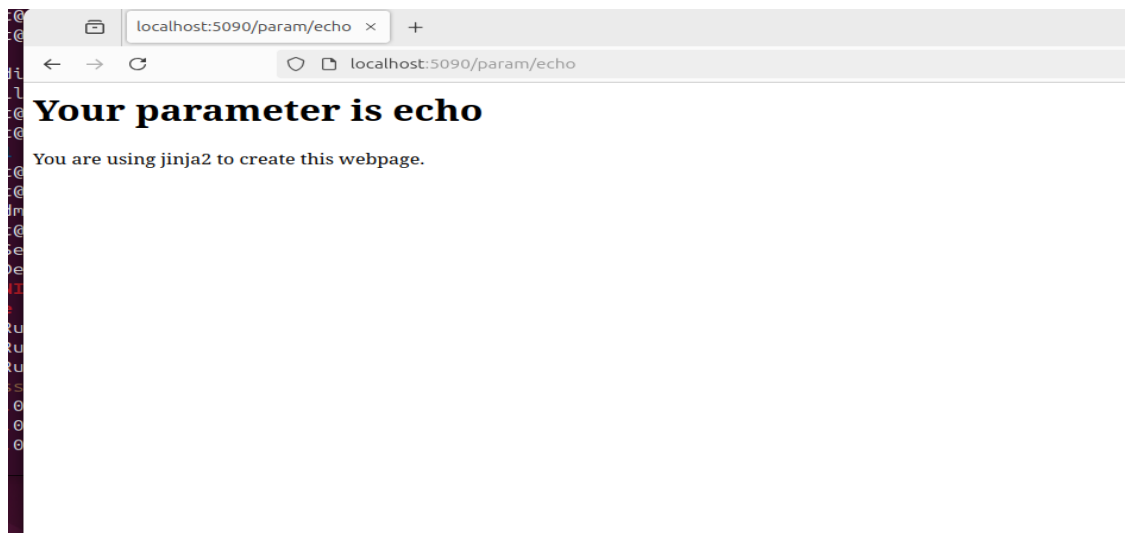
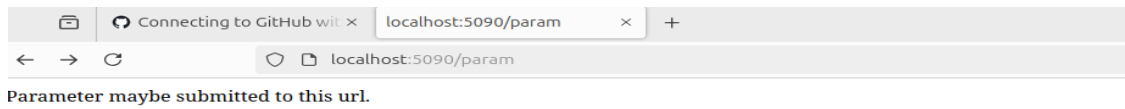
```
1 from flask import Flask, flash, redirect, render_template, request, session, abort
2
3 app=Flask(__name__)
4
5 @app.route('/')
6
7 def test1():
8     return 'Accessed endpoint powered by Plask and Python'
9
10 @app.route('/param')
11
12 def param_home():
13     return 'Parameter maybe submitted to this url.'
14
15 @app.route('/param/<name>')
16
17 def param_submit(name):
18     return 'Parameter %s!' % name
19
20 if __name__=='__main__':
21     app.run(host='0.0.0.0',port='5090')
22
23
```

Below the code editor, a web browser window is open at 'localhost:5090/'. The browser's address bar shows 'localhost:5090' and the page content displays 'Accessed endpoint powered by Plask and Python'. In the background, a terminal window shows the command prompt with the command 'python test.py' and the output 'Accessed endpoint powered by Plask and Python'.

2 Accessing localhost and template







```
root@torontomet-VirtualBox: ~/lab2
readme.txt  templates  test.py
root@torontomet-VirtualBox:~/lab2# python3 test.py
* Serving Flask app 'test'
* Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment.
Use a production WSGI server instead.
* Running on all addresses (0.0.0.0)
* Running on http://127.0.0.1:5090
* Running on http://10.0.2.15:5090
Press CTRL+C to quit
127.0.0.1 - - [23/Sep/2024 13:06:09] "GET /param HTTP/1.1" 200 -
127.0.0.1 - - [23/Sep/2024 13:06:25] "GET /param/echo HTTP/1.1" 200 -
127.0.0.1 - - [23/Sep/2024 13:07:20] "GET /param/echo HTTP/1.1" 200 -
^X^Croot@torontomet-VirtualBox:~/lab2# git status
On branch main
Your branch is up to date with 'origin/main'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    templates/
    test.py

nothing added to commit but untracked files present (use "git add" to track)
root@torontomet-VirtualBox:~/lab2#

root@torontomet-VirtualBox: ~/lab2
jinja2 template"
[main a680ae8] Added a Flask app that uses a jinja2 template
2 files changed, 29 insertions(+)
create mode 100644 templates/test.html
create mode 100644 test.py
root@torontomet-VirtualBox:~/lab2# git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
root@torontomet-VirtualBox:~/lab2# git log
commit a680ae8a1f8f2cf5926d696e7fcfa0ef6c31d861 (HEAD -> main)
Author: syed raza haider <raza.haider@torontomu.ca>
Date:   Mon Sep 23 13:09:33 2024 -0400

    Added a Flask app that uses a jinja2 template
```