

DISTRIBUTED SYSTEM README FILE

PHASE 1

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Phase 1:

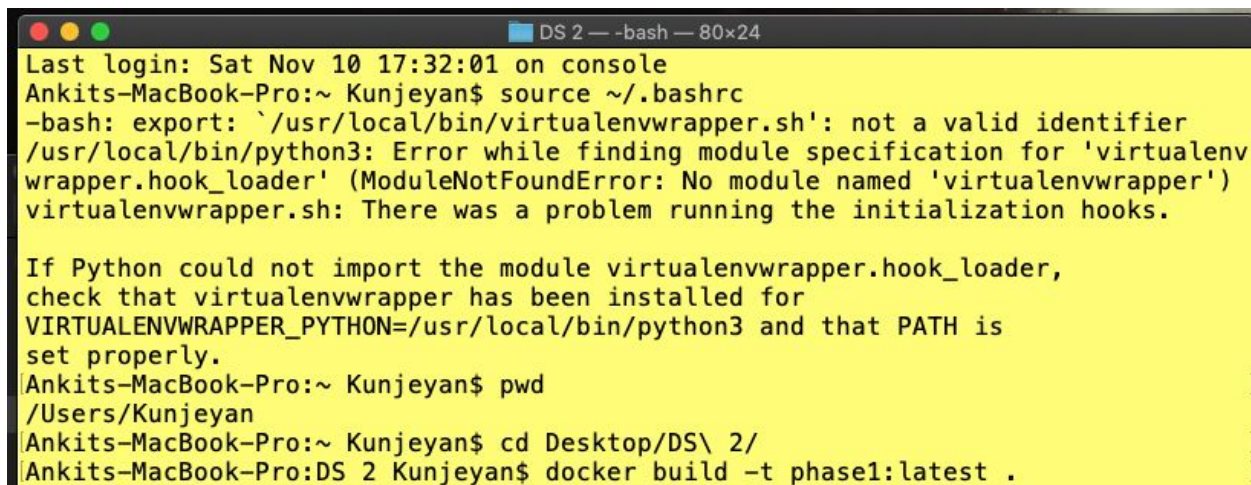
The folder for phase 1 contain following files:-

1. Dockerfile
2. Run.py
3. Requirements.txt
4. Templates folder-> index.html

Running Docker is the primary step.

The steps are as follows:-

1. Go to the directory and folder in which the files of applications are stored.
2. Open the command line or terminal and build the image of Dockerfile using the command “docker build -t phase1:latest .”

A terminal window titled "DS 2 — -bash — 80x24" with a yellow background. It shows the execution of the Docker build command. The terminal output includes the last login time, the user's shell configuration, an error message about a missing module 'virtualenvwrapper.hook_loader', a warning about the module not being found, and the successful execution of the 'docker build' command.

```
Last login: Sat Nov 10 17:32:01 on console
Ankits-MacBook-Pro:~ Kunjeyan$ source ~/.bashrc
-bash: export: `/usr/local/bin/virtualenvwrapper.sh': not a valid identifier
/usr/local/bin/python3: Error while finding module specification for 'virtualenv
wrapper.hook_loader' (ModuleNotFoundError: No module named 'virtualenvwrapper')
virtualenvwrapper.sh: There was a problem running the initialization hooks.

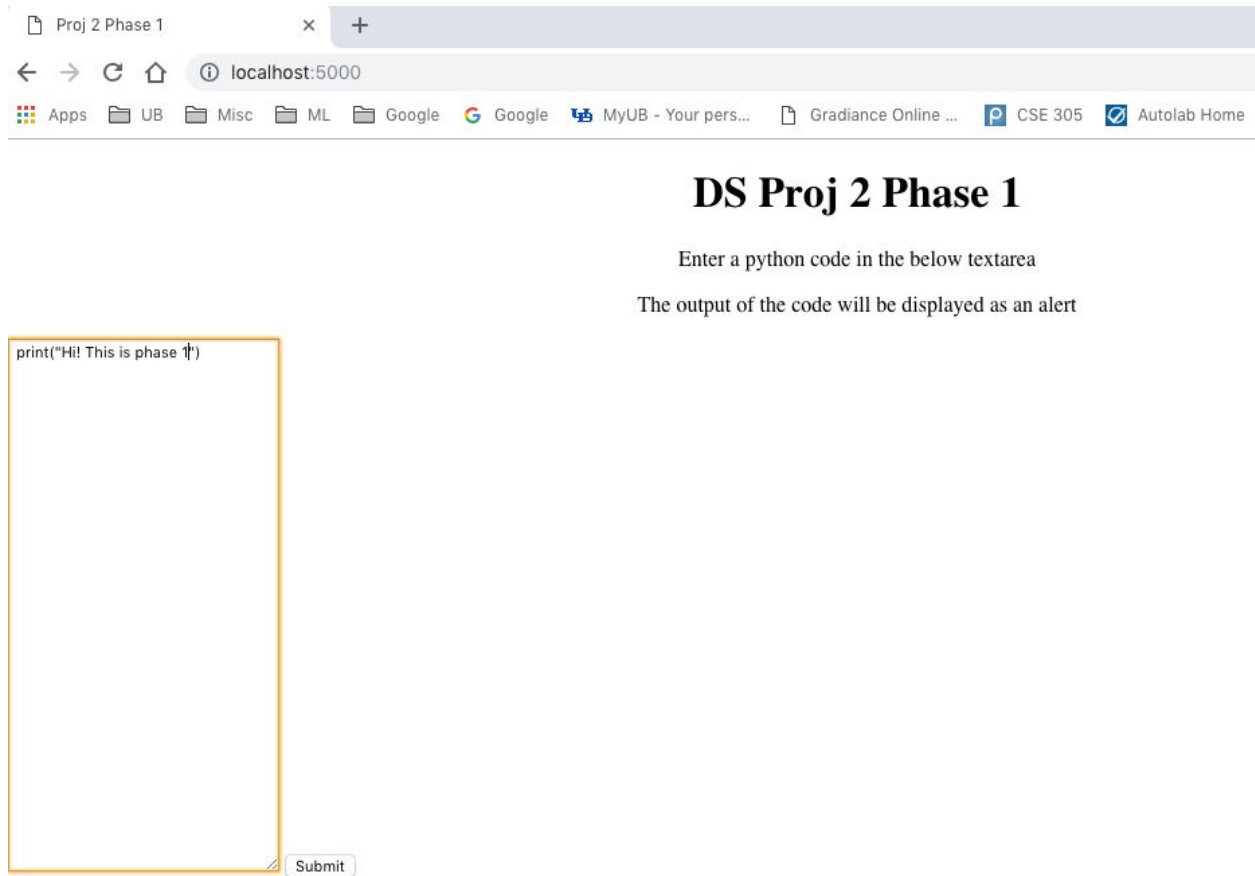
If Python could not import the module virtualenvwrapper.hook_loader,
check that virtualenvwrapper has been installed for
VIRTUALENVWRAPPER_PYTHON=/usr/local/bin/python3 and that PATH is
set properly.
Ankits-MacBook-Pro:~ Kunjeyan$ pwd
/Users/Kunjeyan
Ankits-MacBook-Pro:~ Kunjeyan$ cd Desktop/DS\ 2/
Ankits-MacBook-Pro:DS 2 Kunjeyan$ docker build -t phase1:latest .
```

```
DS 2 — docker build -t phase1:latest . — 80x24
Step 5/11 : COPY . /home/app
----> 2b68a7923806
Step 6/11 : WORKDIR /home/app
----> Running in ff02a73606b2
Removing intermediate container ff02a73606b2
----> 57266d34eadc
Step 7/11 : RUN ls
----> Running in 94851f84e4f0
Dockerfile
Phase 2
Pub-Sub.py
code.py
requirements.txt
run.py
templates
Removing intermediate container 94851f84e4f0
----> ae676d132e75
Step 8/11 : RUN chmod +x run.py
----> Running in 32702ebc341d
Removing intermediate container 32702ebc341d
----> 881e80883f68
Step 9/11 : RUN pip install -r requirements.txt
----> Running in 1eba03b959b3
```

3. After the build is successful. Try running it using the command
“docker run -t -d -p 5000:5000 phase1” on 5000 port.

```
DS 2 — -bash — 80x24
Downloading https://files.pythonhosted.org/packages/76/ae/44b03b253d6fade317f3
2c24d100b3b35c2239807046a4c953c7b89fa49e/itsdangerous-1.1.0-py2.py3-none-any.whl
Collecting MarkupSafe>=0.23 (from Jinja2>=2.10->Flask==1.0.2->-r requirements.tx
t (line 1))
Downloading https://files.pythonhosted.org/packages/bc/3a/6bfd7b4b202fa33bdda8
e4e3d3acc719f381fd730f9a0e7c5f34e845bd4d/MarkupSafe-1.1.0-cp27-cp27mu-manylinux1
_x86_64.whl
Installing collected packages: Werkzeug, click, MarkupSafe, Jinja2, itsdangerous
, Flask
Successfully installed Flask-1.0.2 Jinja2-2.10 MarkupSafe-1.1.0 Werkzeug-0.14.1
click-7.0 itsdangerous-1.1.0
Removing intermediate container 1eba03b959b3
----> 24fb138c3e58
Step 10/11 : ENTRYPOINT ["python"]
----> Running in f9bd7a3b2b2a
Removing intermediate container f9bd7a3b2b2a
----> 407add1305b
Step 11/11 : CMD ["run.py"]
----> Running in 14e766cbee05
Removing intermediate container 14e766cbee05
----> 03f693804db0
Successfully built 03f693804db0
Successfully tagged phase1:latest
Ankits-MacBook-Pro:DS 2 Kunjeyan$ docker run -t -d -p 5000:5000 phase1
```

4. Go to a browser and type “https://localhost:5000”. The application will run prompting you to enter the values.



The screenshot shows a web browser window with the title 'Proj 2 Phase 1'. The address bar displays 'localhost:5000'. The browser's bookmark bar includes links to 'Apps', 'UB', 'Misc', 'ML', 'Google', 'MyUB - Your pers...', 'Gradiance Online ...', 'CSE 305', and 'Autolab Home'. The main content area features the heading 'DS Proj 2 Phase 1' in bold. Below the heading, there are two instructions: 'Enter a python code in the below textarea' and 'The output of the code will be displayed as an alert'. A large text area is provided for entering code, with the text 'print("Hi! This is phase 1")' already entered. A 'Submit' button is located at the bottom right of the text area.

DS Proj 2 Phase 1

Enter a python code in the below textarea

The output of the code will be displayed as an alert

```
print("Hi! This is phase 1")
```

Submit

