DISTRIBUTED SYSTEM README FILE

PHASE 2

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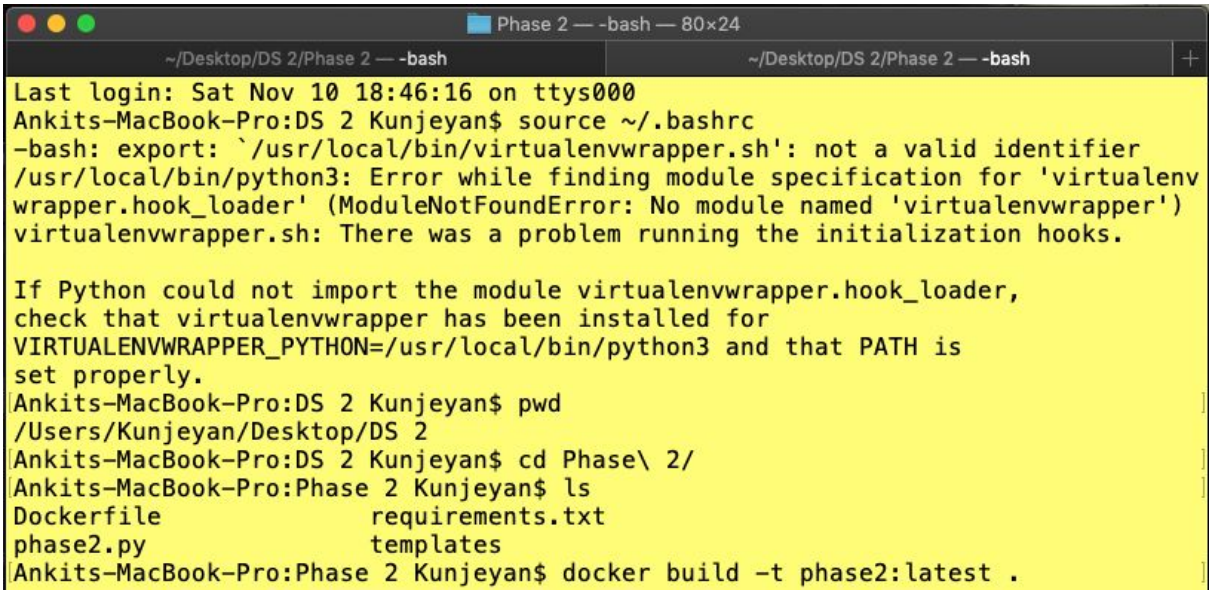
Phase 2:

The folder for phase 2 contain following files:-

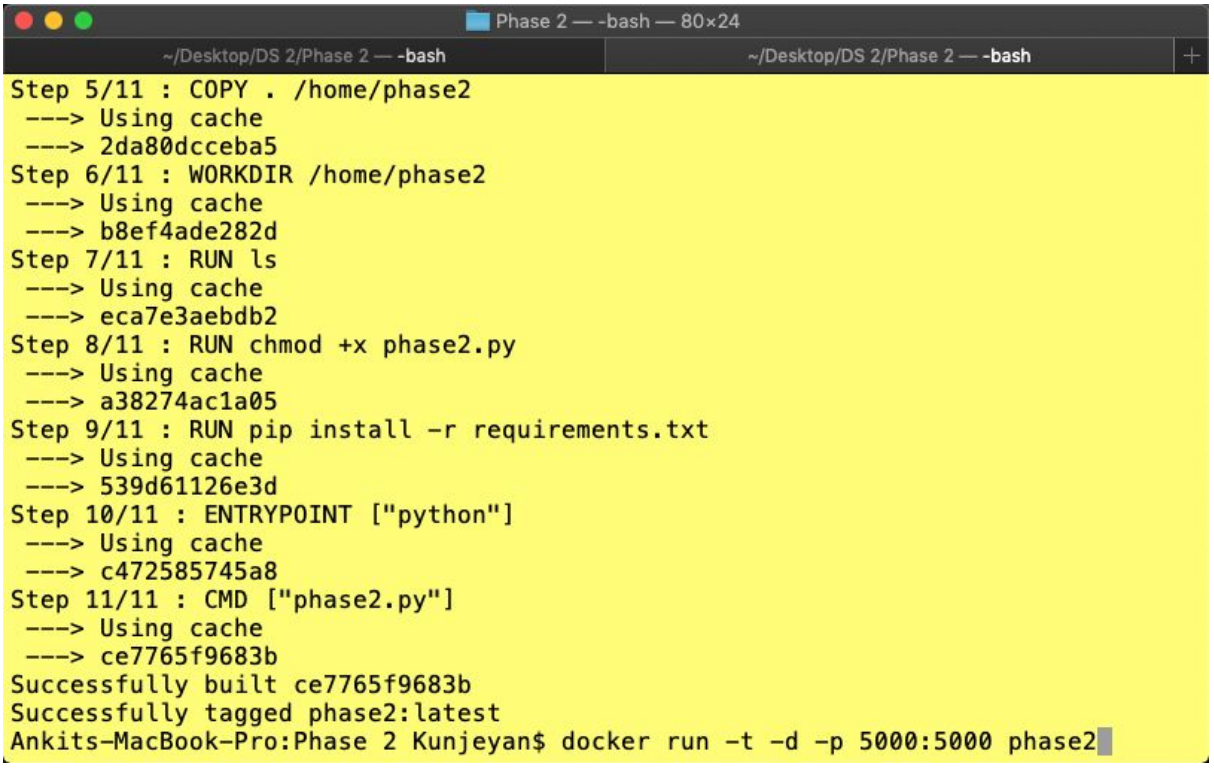
1. Dockerfile
2. phase2.py
3. Requirements.txt
4. Templates folder-> P2.html

The steps are as follows:-

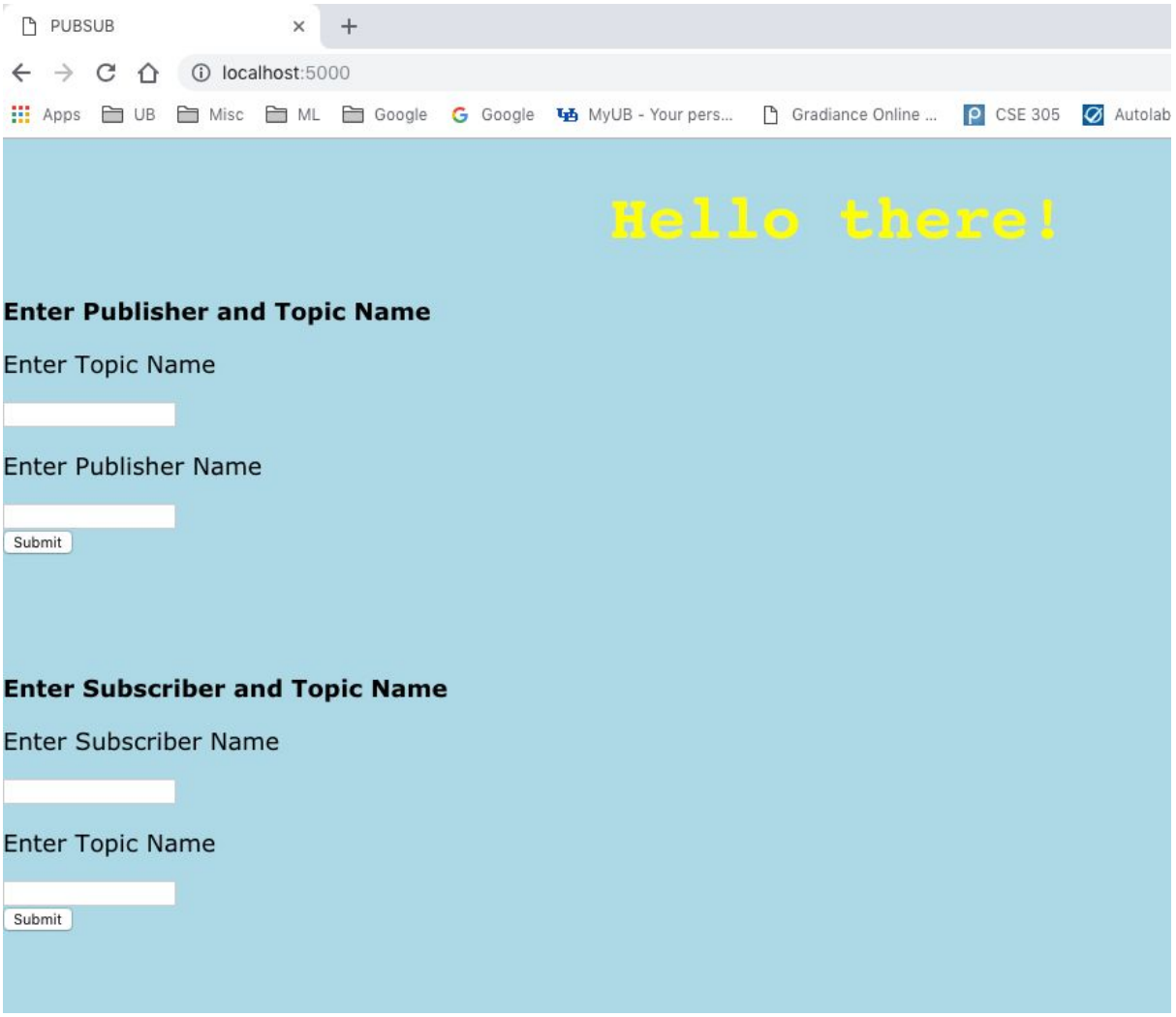
1. Go to the directory and folder in which the files of applications are stored.
2. Open the command line or terminal and build the image of Dockerfile using the command "docker build -t phase2:latest ."

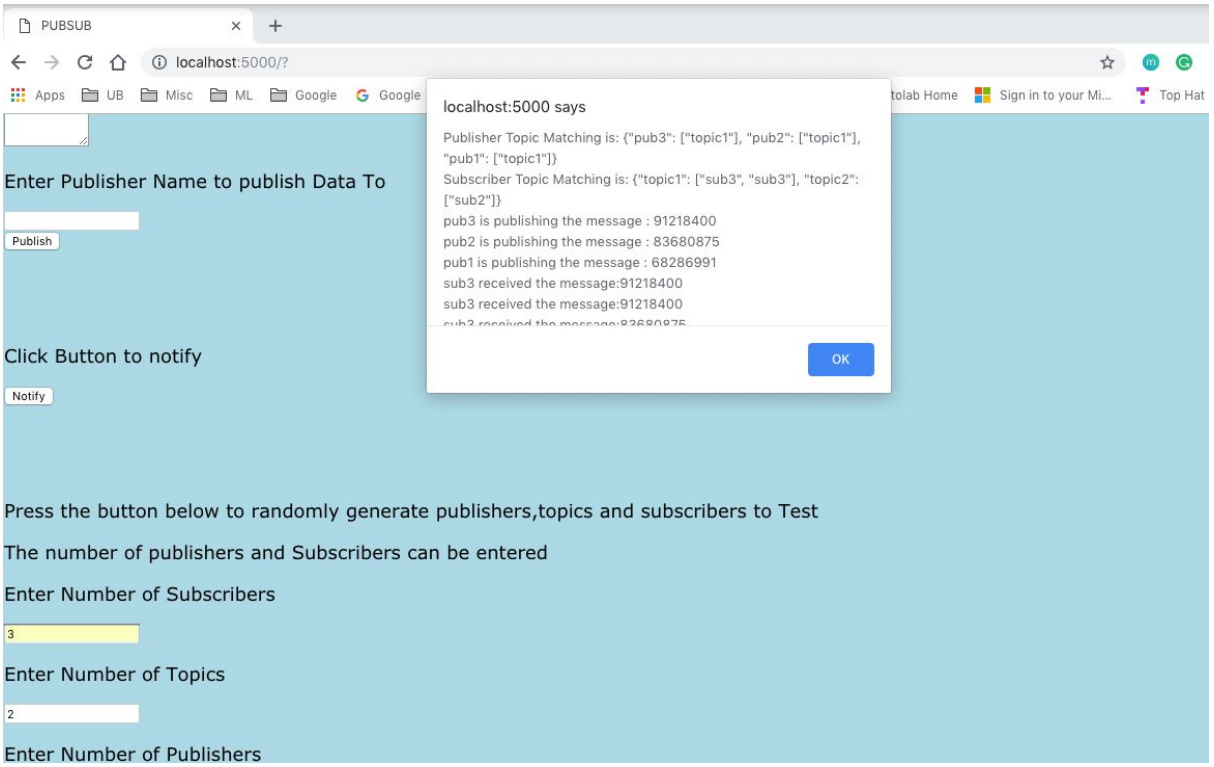


3. After the build is successful. Try running it using the command "docker run -t -d -p 5000:5000 phase2" on 5000 port.



4. Go to a browser and type “https://localhost:5000”. The application will run prompting you to enter the values.
5. Add/Enter the Topic name and the publisher name. Similarly keep adding the subscriber name and the corresponding topic name as much as you want.
6. Enter/Append the data to a topic in text bar and keep on publishing the data.
7. Whenever the user is done with add/appending PUB/SUB to the topics, hit NOTIFY button to print the data as an alert.
8. You will see all the data so entered in respective topics by the publishers.
9. The Random function generates the same pattern as stated in the PDF of the project. It randomly matches and print the data so found in topics published by the publishers.


PUBSUB
localhost:5000
Apps
UB
Misc
ML
Google
Google
MyUB - Your pers...
Gradiance Online ...
CSE 305
Autolab
Hello there!
Enter Publisher and Topic Name
Enter Topic Name
Enter Publisher Name
Submit
Enter Subscriber and Topic Name
Enter Subscriber Name
Enter Topic Name
Submit


PUBSUB
localhost:5000/?
Apps
UB
Misc
ML
Google
Google
tolab Home
Sign in to your Mi...
Top Hat
Enter Publisher Name to publish Data To
Publish
Click Button to notify
Notify
Press the button below to randomly generate publishers,topics and subscribers to Test
The number of publishers and Subscribers can be entered
Enter Number of Subscribers
3
Enter Number of Topics
2
Enter Number of Publishers
localhost:5000 says
Publisher Topic Matching is: {"pub3": ["topic1"], "pub2": ["topic1"], "pub1": ["topic1"]}
Subscriber Topic Matching is: {"topic1": ["sub3", "sub3"], "topic2": ["sub2"]}
pub3 is publishing the message : 91218400
pub2 is publishing the message : 83680875
pub1 is publishing the message : 68286991
sub3 received the message:91218400
sub3 received the message:91218400
OK