# DOS

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# 1 project link on Github

https://github.com/oulaawwad/DOS-NEW.git

# 2 Output

In my system i used lumen framework using php language on ubunto operating system using three virtual machines. We implement three services as wanted:

- Front-end service
- Order service
- Cataloge service

There are 3 operations and i will explain each one and how to works:

 $\operatorname{search}$ 

after sending the query from front-end controller service to the the cataloge service then the output will shown in the browser page with the book information : name and id of all books.

```
///. search

public function getAllmooks(Sites)]

// make a query

// make a query

// make a query

// startQuery2 - microtise(trus);

// cache::has(Sites))

// cache::has(A);

// firstnoomsum < (A);

// fi
```

Figure 1: search/ front end controller

Figure 2: search/ cataloge controller

#### lookup

after sending the query from front-end controller service with the id of book to the the cataloge service then the output will shown in the browser page with the book information : name and id of the specific books.

Figure 3: lookup/ front end controller

Figure 4: lookup/ cataloge controller

#### buy

after sending the query from front-end controller service with the id of book to the the order service then check if the book is available in cataloge service via sending 2 queries. the first is chech if there is copies from this book, if not the second query will paused. otherwise the second query will send to stressing the success of process.

Figure 5: buy/ front end controller

Figure 6: buy/ cataloge controller

Figure 7: buy/ order controller

but unfortunately i didn't take the responses because our virtual boxes were crashed and we reinstall them but many issues happened and this make us very upset for this. Also we tried in 2 another computers but the same problems happened, we don't know why unfortunately



Figure 8: problem1

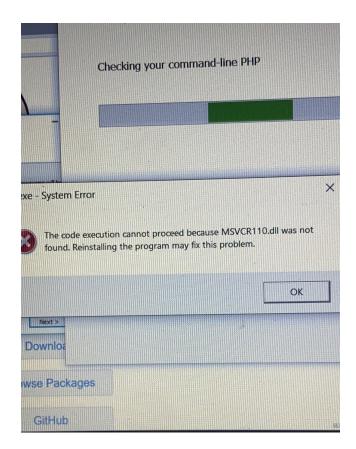


Figure 9: problem 2

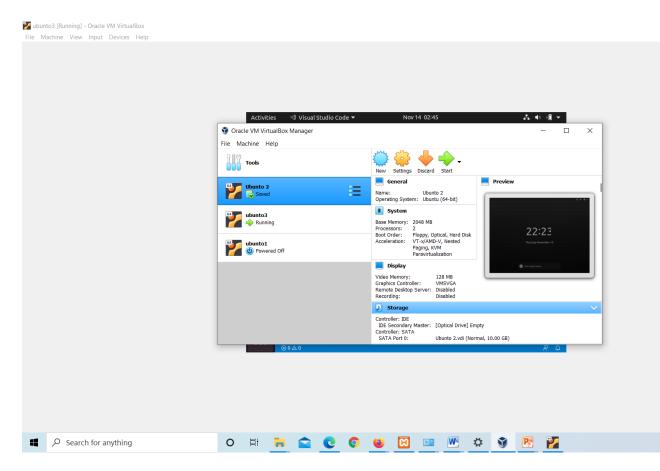


Figure 10: virtual 1

### 3 How to make it works

first: make the machines works with each other: create a network: go to preferences then network, add anew network with networkcidr: 192.168.1/24 with name: lab1.

connect three virtuals to this network:

go to network in each virtual

change the port for each:

go to settings in network then to ip v4 then change the port for each, for exam-

 $\begin{array}{l} \mathrm{ple}:\: 192.168.12.141:8001\\ 192.168.19.141:8000 \end{array}$ 

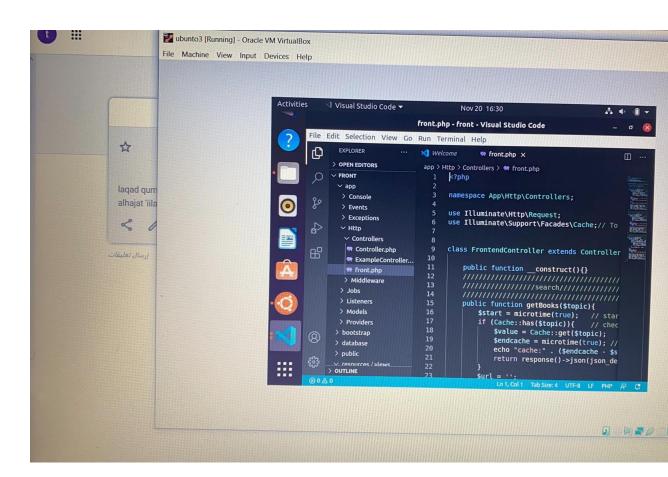


Figure 11: virtual 1/front-end

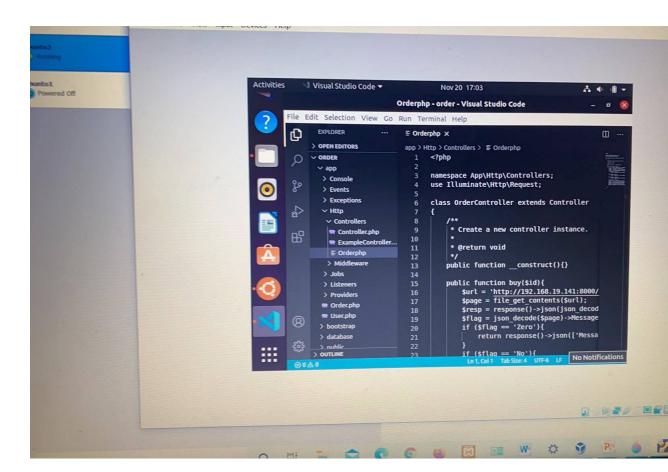


Figure 12: virtual 2/ order

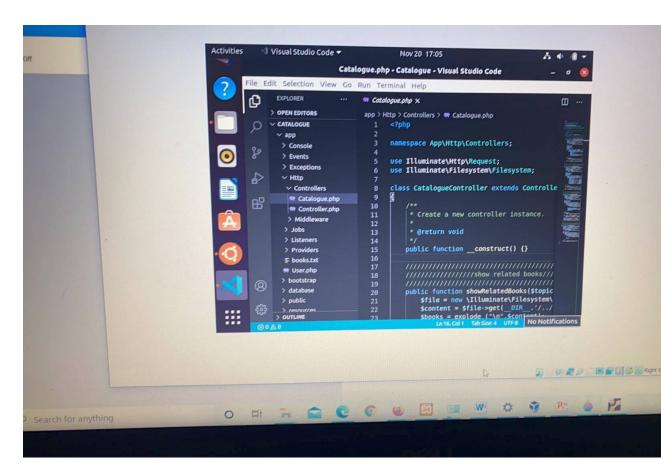


Figure 13: virtual 3/cataloge