- 1.I have used Laravel framework and Redis server in order to implement the solution for the given scenario.Laravel gives fast MVC design with secure .Redis-cache server ,i have used my personel remote server ,35.162.31.222 .redis configurations are available in database.php under config folder.
- 2. please refer guide.txt and db\_setup.txt
- 3. My approach
  - Telecom gate way sends data over API ,<a href="http://localhost/azeem-test/code/web/az/blog/index?msisdn=60123456789&operatorid=3&shortcodeid=8&text=ON+GAMES">http://localhost/azeem-test/code/web/az/blog/index?msisdn=60123456789&operatorid=3&shortcodeid=8&text=ON+GAMES</a>
  - We store the received data into redis cache only with starting key letter is "T"
  - There is a cronjob that runs every minute to storing into DB using the data which are stored into redis-cache and it deletes the cached data once storing into DB
    ,http://localhost/azeem-test/code/web/az/blog/storedb
- 4. Answer for your questions.

## Goal 1

I have used MVC framework business logics are separated by using lib folder(myfunctions.php)

please refer the following files. blog/app/Http/Controller/HomeController blog/app/Mo.php blog/app/lib/myfunctions.php

Unit test blog/tests/TokenTest.php

Goal<sub>2</sub>

http://localhost/azeem-tes/code/web/az/blog/stats

id and created\_at are indexed

note: "created\_at" is actual time that our system received from telecom gate way, "updated\_at" is inserted time into DB.

Getting "max" date and "Min" date by sorting "id descending" with last 10k records, please refer blog/app/lib/myfunctions.php.

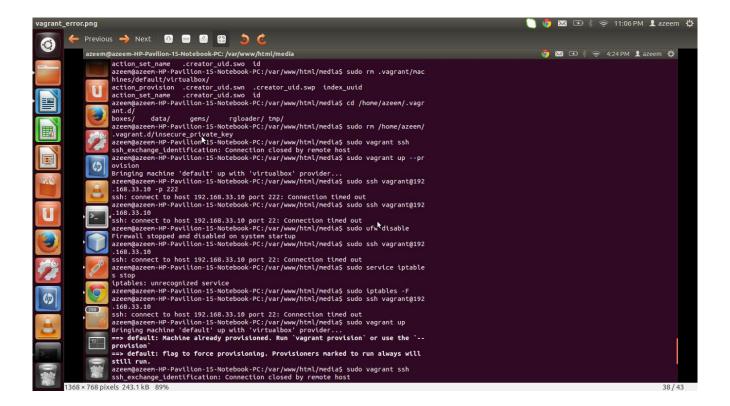
## Bonus1

curl http://localhost/object/code/web/az/blog/unprocessed-cache

## Bonus 2

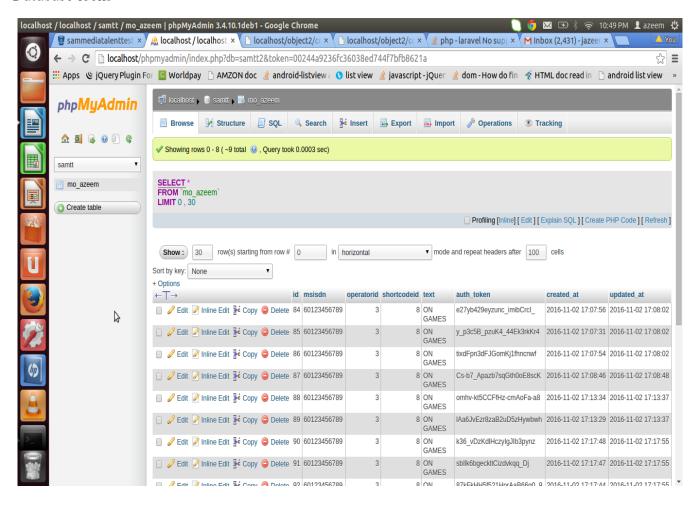
curl http://localhost/object/code/web/az/blog/delete-cache

5. As I had problem to connect virtualBox over vagrant, I couldn't do the virtual-box configuration. The given screen shot shows the issues that I faced with vagrant.

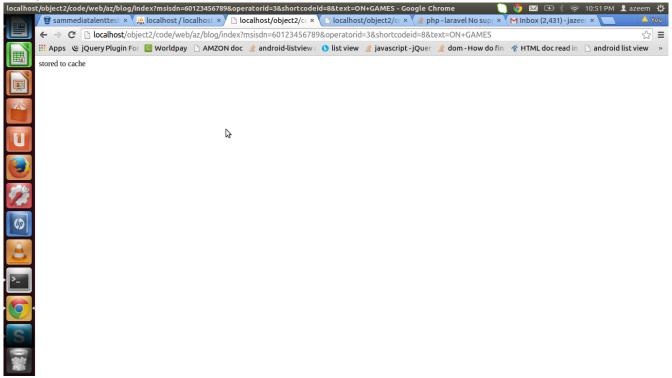


Some screens of my works are given below.

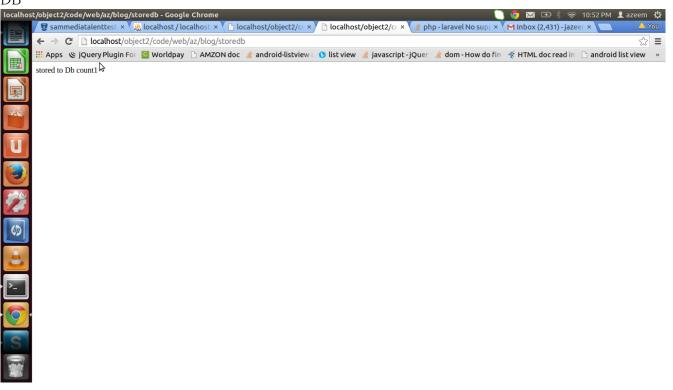
## Database looks



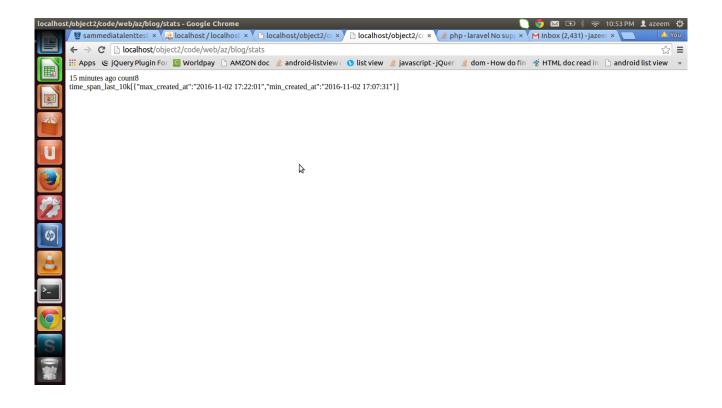
The gate way sends the data to our system

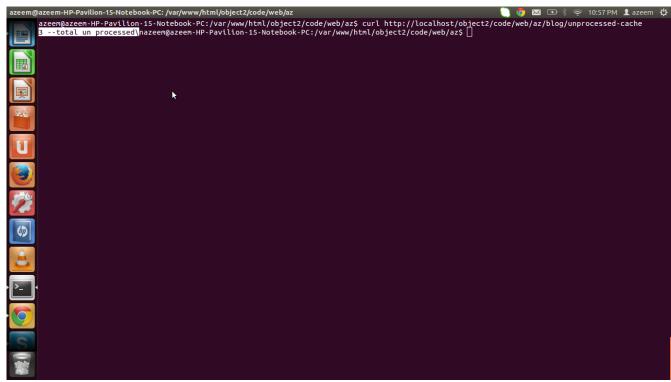


This is the cron job file that executes every minute to update the data that are stored in Cahed into DB

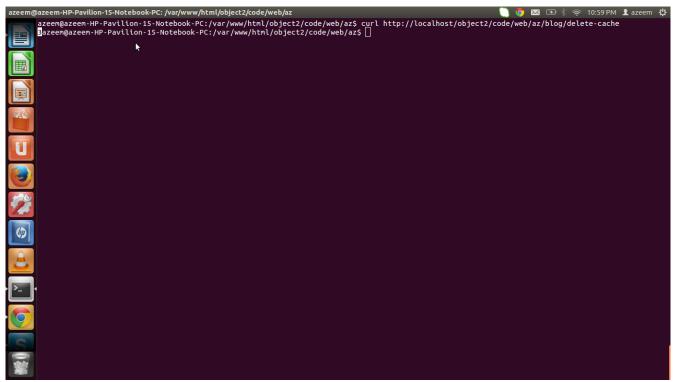


Showing stats ,"created\_at" is the time that Telecom sent the data and "updated\_at" is DB inserted time





Checking un processed data



Deleting un processed cache data.