Setting Up CouchDB Server

* Launch EC2 Ubuntu Instance and open up TCP Port 5948 in security group

*Install CouchDB and Test
    ~/$ sudo apt-get update
    ~/$ sudo add-aptrepository ppa:couchdb/stable-y
    ~/$ sudo apt-get update
    ~/$ sudo apt-get install couchdb -y
    ~/$ curl localhost:5984

* Making sure CouchDB is accessible from any ip, check netstat
    ~/$ netstat -an | grep 5984

* If it says '127.0.0.1:5984', then
    ~/$ sudo /etc/couchdb/default.ini

* Change bind address from 127.0.0.1 to 0.0.0.0. Then,
    ~/$ sudo service couchdb stop
    ~/$ sudo service couchdb start

*Access Futon on Local
    ~/$ ssh -i "couchserver.pem" -L 5984:127.0.0.1:5984 ubuntu@serverIP

* Now go to http://localhost:5984/_utils in local browser

* Set up Admin Account for CouchDB (Press Fix This on bottom right)

* Admin Username: kousik93 (example)

* Admin Password: kousiksundar (example)

* Now quit the ssh and open a terminal on your local machine

* Curling from local machine
    ~/$ curl -X PUT "http://uname:pass@ip:5984/dbname"
* Eg:
    ~/$ curl -X PUT http://kousik93:kousiksundar@ec2-54-153-8-24.us-west-1.compute.amazonaws.com:5984/testdb

* You will get output: {"ok":true}

*CouchDB is running

* Now you can run the Initialization script

*Open InitializeCouchDB.go. Change 'BaseUrl' variable to
"http://uname:pass@ip:5984"

* Save file

* Run file
        ~/$ go run In InitializeCouchDB.go

*CouchDB is Completely set up for your backend.

* You can now use all the REST API backend APIs

Setting Up Backend

* Set up another EC2 machine. Open TCP ports 3000,3001,3002. Boot. Install golang

*Scp the files over there.

* Set Gopath. Install git. Go get all requirements

*Change the BaseUrl Variable in all the files to the appropriate URL

* ~/$ go run ClassAttendanceListAPI.go && go run StudentListDatabaseAPI.go && go run StudentProfileDatabaseAPI.go