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-apt-repository ppa:couchdb/stable -y

~/$ sudo apt-get update

~/$ sudo apt-get install couchdb -y

~/$ curl localhost:5984

\* Sudo password for user 'Ubuntu' is kousiksundar

\*Access Futon on Local

~/$ ssh -i "couchserver.pem" -L5984:127.0.0.1:5984 [ubuntu@serverIP](mailto: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

\* Admin Password: kousiksundar

\* curling from localhost

~/$ curl -X PUT http://kousik:[kousiksundar@127.0.0.1](mailto:kousiksundar@127.0.0.1):5984/dbname

SCREW THAT. EC2 IS AN ASSHOLE

use this:

~/$ curl https://admin:9631aa6374e6@couchdb-80f683.smileupps.com/

API TO COUCHDB:

Database: studentlist (provided by college)

\* To get a Student Name from Student ID:

~/$ curl https://admin:9631aa6374e6@couchdb-80f683.smileupps.com/studentlist/\_design/getlistdata/\_view/studentname?key=5001

Output:

{

"total\_rows": 1,

"offset": 0,

"rows": [{

"id": "44f5a9ca7b28013494043302c4002076",

"key": 5001,

"value": "kou"

}]

}

\* To check if student is a valid student:

~/$ curl https://admin:9631aa6374e6@couchdb-80f683.smileupps.com/studentlist/\_design/getlistdata/\_view/studentname?key=%2200%22

Output:

{

"total\_rows":1,

"offset":0,

"rows":[

]

}

\* To find out what classes a student has enrolled in:

~/$ curl https://admin:9631aa6374e6@couchdb-80f683.smileupps.com/studentlist/\_design/getlistdata/\_view/studentenrolled?key=%22001%22

Output:

{

"total\_rows": 1,

"offset": 0,

"rows": [{

"id": "44f5a9ca7b28013494043302c4002076",

"key": "001",

"value": [273, 283]

}]

}

Database: classlist

\* To find out name of a class and/or if class exists

~/$ curl https://admin:9631aa6374e6@couchdb-80f683.smileupps.com/classlist/\_design/getclassdata/\_view/classexists?key=273

Output:

{

"total\_rows": 2,

"offset": 0,

"rows": [{

"id": "44f5a9ca7b28013494043302c40041f8",

"key": 273,

"value": "Distributed Something"

}]

}

Database: studentprofile

\* To check if student has registered a mobile device

~/$ curl https://admin:9631aa6374e6@couchdb-80f683.smileupps.com/studentprofile/\_design/studentdetails/\_view/studentregistered?key=5001

Output:

{

"total\_rows": 1,

"offset": 0,

"rows": [{

"id": "44f5a9ca7b28013494043302c4004c9b",

"key": 5001,

"value": "kou"

}]

}

\* To get student password to delete his registered device

~/$ curl <https://couchdb-80f683.smileupps.com/studentprofile/_design/studentdetails/_view/studentpassword?key=5001>

Output:

{

"total\_rows": 1,

"offset": 0,

"rows": [{

"id": "44f5a9ca7b28013494043302c4004c9b",

"key": 5001,

"value": "yolo"

}]

}

\* To check if a student is present

~/$ curl <https://couchdb-80f683.smileupps.com/class273/_design/classattendance/_view/isstudentpresent?key=5001>

Output:

{

"total\_rows": 1,

"offset": 0,

"rows": [{

"id": "44f5a9ca7b28013494043302c400745a",

"key": 5001,

"value": null

}]

}

~/$

~/$

~/$

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~/$