

# Setting Up CouchDB Server

\* Launch EC2 Ubuntu Instance and open up TCP Port 5984 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
```

\* Now go to [http://localhost:5984/\\_utils](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@127.0.0.1:5984/dbname
```

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SCREW THAT. EC2 IS AN ASSHOLE

use this:

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

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## 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]
  }]
}
```

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## 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"
  }]
}
```

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## 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"
  }]
}
```

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\* To check if a student is present

~/ \$ curl [https://couchdb-80f683.smileupps.com/class273/\\_design/classattendance/\\_view/isstudentpresent?key=5001](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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~/ \$

~/ \$

~/ \$

~/ \$

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~/ \$