# logo61ga

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| **Project Name** | PHmHEALTH |
| **Document Name** | PhmRESTServices |
| **Created By** | Vijay Telu |

# GitHub location:

<https://github.com/clouidio/phm_platform>

Prerequisites Software

1. play2.1 installation (<http://www.playframework.com/>)
2. mysql 5.6
3. Cassandra 1.1

# How to build setup the project in Development box:

1. Check-out the code from the GitHub location
2. Got to the checkout folder location
3. Execute “play eclipse” which will make the project eclipse compatible
4. Open the project in eclipse
5. To run the application local box
   1. Go the checkout folder structure
   2. Execute the “play run” command which will start the play server
   3. To check the deployment open the browser and give http://localhost:9000

# How to Setup the MySql DataBase:

1. Once the mysql is installed run the phmhealth.sql file which will create the tables
2. Sample data scripts also included for reference to create the sample data

# How to Setup Cassandra:

1. Install Cassandra 1.1 : The Cassandra is used to store the patients demographics, where the patient \_id is mapped to RDBMS

# How to build and deploy the application in production server:

1. Go to the code checkout place
2. Execute “ play dist” which will create the production deployment package
3. Copy the package to the server and do unzip it
4. Start the netty server as back ground process

This will hibernate jpa to connect to mysql and playcassie which internally use astyanax to connect to cassandra

Cassandra NoSql

Patient Demographics

PlayFramework Code

Mysql contains all the transactional data like providers , schedules and patient and providers association

The patient id is from nosql is mapped to mysql tables

MySql DB

Whenever the server rest call invoked from the Device based the service it will fetch the information from mysql or Cassandra or both of them and returns the response in json format.

For Example If the user is logged-in then The service will authenticate the user (provider) and it will fetch all the schedules to the patient from mysql db and the corresponding patients demographics from the Cassandra.

# How to Test the Services:

There are 2 ways we can test the server side services without devices

1. Using the Curl command to post or get the data from the REST service
2. Use Google chrome advanced REST client

Sample service request and responses

C:\>curl --header "Content-type:application/json" --request POST --data "{\"user  
name\":\"jen\",\"password\":\"1111\",\"gmtOffSet\":-330,\"usertype\":\"1\"}" htt  
p://[204.13.110.186:9000/1/login](http://204.13.110.186:9000/1/login)

{  
"patients": [  
{  
"dateOfBirth": "05-12-1942",  
"phone": "10115551212",  
"zipcode": "94491",  
"state": "CA",  
"lastname": "Giacomo Guilizzoni",  
"firstname": "PELDI",  
"Country": "USA",  
"city": "San Mateo",  
"ScheduleDuration": 60,  
"streetaddress": "72 E. Greene St",  
"ScheduleId": 70,  
"maritalstatus": "married",  
"patientid": 999,  
"gender": "female",  
"ScheduleTime": "Apr 28 13:30"  
},  
{  
"dateOfBirth": "04-10-1935",  
"phone": "1115551212",  
"zipcode": "99999",  
"state": "CA",  
"lastname": "Jones",  
"firstname": "Myra",  
"Country": "USA",  
"city": "Noble",  
"ScheduleDuration": 90,  
"streetaddress": "150 West Avenue ",  
"ScheduleId": 71,  
"maritalstatus": "other",  
"patientid": 1000,  
"gender": "female",  
"ScheduleTime": "Apr 28 15:00"  
},  
{  
"dateOfBirth": "01-02-1981",  
"phone": "4082309719",  
"zipcode": "94538",  
"state": "CA",  
"lastname": "Dew",  
"firstname": "John",  
"Country": "USA",  
"city": "SanJose",  
"ScheduleDuration": 90,  
"streetaddress": "Stevenon Blvd",  
"ScheduleId": 72,  
"maritalstatus": "married",  
"patientid": 1001,  
"gender": "male",  
"ScheduleTime": "Apr 28 16:30"  
},  
{  
"dateOfBirth": "09-10-1933",  
"phone": "4155551111",  
"zipcode": "17033",  
"state": "CA",  
"lastname": "Guillermo",  
"firstname": "TUTTIFORE",  
"Country": "USA",  
"city": "PA",  
"ScheduleDuration": 90,  
"streetaddress": "352 56th St.",  
"ScheduleId": 71,  
"maritalstatus": "other",  
"patientid": 998,  
"gender": "other",  
"ScheduleTime": "Apr 28 15:00"  
},  
{  
"dateOfBirth": "05-12-1942",  
"phone": "10115551212",  
"zipcode": "94491",  
"state": "CA",  
"lastname": "Giacomo Guilizzoni",  
"firstname": "PELDI",  
"Country": "USA",  
"city": "San Mateo",  
"ScheduleDuration": 90,  
"streetaddress": "72 E. Greene St",  
"ScheduleId": 72,  
"maritalstatus": "married",  
"patientid": 999,  
"gender": "female",  
"ScheduleTime": "Apr 28 16:30"  
},  
{  
"dateOfBirth": "04-10-1935",  
"phone": "1115551212",  
"zipcode": "99999",  
"state": "CA",  
"lastname": "Jones",  
"firstname": "Myra",  
"Country": "USA",  
"city": "Noble",  
"ScheduleDuration": 90,  
"streetaddress": "150 West Avenue ",  
"ScheduleId": 74,  
"maritalstatus": "other",  
"patientid": 1000,  
"gender": "female",  
"ScheduleTime": "Apr 28 20:00"  
},  
{  
"dateOfBirth": "01-02-1981",  
"phone": "4082309719",  
"zipcode": "94538",  
"state": "CA",  
"lastname": "Dew",  
"firstname": "John",  
"Country": "USA",  
"city": "San Jose",  
"ScheduleDuration": 90,  
"streetaddress": "Stevenon Blvd",  
"ScheduleId": 76,  
"maritalstatus": "married",  
"patientid": 1001,  
"gender": "male",  
"ScheduleTime": "Apr 29 00:00"  
}  
],  
"userid": 101  
}

/\* PST\*/

C:\>curl --header "Content-type:application/json" --request POST --data "{\"user  
name\":\"jeff\",\"password\":\"1111\",\"gmtOffSet\":-750,\"usertype\":\"1\"}" ht  
tp://[204.13.110.186:9000/1/login](http://204.13.110.186:9000/1/login)

{  
"patients": [  
{  
"dateOfBirth": "08-22-2001",  
"phone": "4155559988",  
"zipcode": "77654",  
"state": "Ogden Utah",  
"lastname": "Smith",  
"firstname": "Jenny Benne",  
"Country": "USA",  
"city": "721 North",  
"ScheduleDuration": 90,  
"streetaddress": " 1164543 South",  
"ScheduleId": 73,  
"maritalstatus": "single",  
"patientid": 997,  
"gender": "male",  
"ScheduleTime": "Apr 29 01:30"  
},  
{  
"dateOfBirth": "09-10-1933",  
"phone": "4155551111",  
"zipcode": "17033",  
"state": "CA",  
"lastname": "Guillermo",  
"firstname": "TUTTIFORE",  
"Country": "USA",  
"city": "PA",  
"ScheduleDuration": 90,  
"streetaddress": "352 56th St.",  
"ScheduleId": 75,  
"maritalstatus": "other",  
"patientid": 998,  
"gender": "other",  
"ScheduleTime": "Apr 29 05:00"  
},  
{  
"dateOfBirth": "05-12-1942",  
"phone": "10115551212",  
"zipcode": "94491",  
"state": "CA",  
"lastname": "Giacomo Guilizzoni",  
"firstname": "PELDI",  
"Country": "USA",  
"city": "San Mateo",  
"ScheduleDuration": 60,  
"streetaddress": "72 E. Greene St",  
"ScheduleId": 77,  
"maritalstatus": "married",  
"patientid": 999,  
"gender": "female",  
"ScheduleTime": "Apr 29 08:00"  
},  
{  
"dateOfBirth": "04-10-1935",  
"phone": "1115551212",  
"zipcode": "99999",  
"state": "CA",  
"lastname": "Jones",  
"firstname": "Myra",  
"Country": "USA",  
"city": "Noble",  
"ScheduleDuration": 90,  
"streetaddress": "150 West Avenue ",  
"ScheduleId": 78,  
"maritalstatus": "other",  
"patientid": 1000,  
"gender": "female",  
"ScheduleTime": "Apr 29 09:30"  
},  
{  
"dateOfBirth": "01-02-1981",  
"phone": "4082309719",  
"zipcode": "94538",  
"state": "CA",  
"lastname": "Dew",  
"firstname": "John",  
"Country": "USA",  
"city": "San Jose",  
"ScheduleDuration": 90,  
"streetaddress": "Stevenon Blvd",  
"ScheduleId": 79,  
"maritalstatus": "married",  
"patientid": 1001,  
"gender": "male",  
"ScheduleTime": "Apr 29 11:00"  
}  
],  
"userid": 102  
}

C:\>curl --header "Content-type:application/json" --request POST --data "{\"user  
name\":\"mike\",\"password\":\"1111\",\"gmtOffSet\":-330,\"usertype\":\"1\"}" ht  
tp://[204.13.110.186:9000/1/login](http://204.13.110.186:9000/1/login)

{  
"patients": [  
{  
"dateOfBirth": "08-22-2001",  
"phone": "4155559988",  
"zipcode": "77654",  
"state": "Ogden Utah",  
"lastname": "Smith",  
"firstname": "Jenny Benne",  
"Country": "USA",  
"city": "721 North",  
"ScheduleDuration": 90,  
"streetaddress": " 1164543 South",  
"ScheduleId": 71,  
"maritalstatus": "single",  
"patientid": 997,  
"gender": "male",  
"ScheduleTime": "Apr 28 15:00"  
},  
{  
"dateOfBirth": "09-10-1933",  
"phone": "4155551111",  
"zipcode": "17033",  
"state": "CA",  
"lastname": "Guillermo",  
"firstname": "TUTTIFORE",  
"Country": "USA",  
"city": "PA",  
"ScheduleDuration": 90,  
"streetaddress": "352 56th St.",  
"ScheduleId": 78,  
"maritalstatus": "other",  
"patientid": 998,  
"gender": "other",  
"ScheduleTime": "Apr 29 02:30"  
}  
],  
"userid": 103  
}

C:\>curl --header "Content-type:application/json" --request POST --data "{\"user  
name\":\"dirk\",\"password\":\"2222\",\"gmtOffSet\":-330,\"usertype\":\"1\"}" ht  
tp://[204.13.110.186:9000/1/login](http://204.13.110.186:9000/1/login)

{  
"patients": [  
{  
"dateOfBirth": "09-10-1933",  
"phone": "4155551111",  
"zipcode": "17033",  
"state": "CA",  
"lastname": "Guillermo",  
"firstname": "TUTTIFORE",  
"Country": "USA",  
"city": "PA",  
"ScheduleDuration": 90,  
"streetaddress": "352 56th St.",  
"ScheduleId": 73,  
"maritalstatus": "other",  
"patientid": 998,  
"gender": "other",  
"ScheduleTime": "Apr 28 18:30"  
},  
{  
"dateOfBirth": "05-12-1942",  
"phone": "10115551212",  
"zipcode": "94491",  
"state": "CA",  
"lastname": "Giacomo Guilizzoni",  
"firstname": "PELDI",  
"Country": "USA",  
"city": "San Mateo",  
"ScheduleDuration": 90,  
"streetaddress": "72 E. Greene St",  
"ScheduleId": 75,  
"maritalstatus": "married",  
"patientid": 999,  
"gender": "female",  
"ScheduleTime": "Apr 28 22:00"  
},  
{  
"dateOfBirth": "04-10-1935",  
"phone": "1115551212",  
"zipcode": "99999",  
"state": "CA",  
"lastname": "Jones",  
"firstname": "Myra",  
"Country": "USA",  
"city": "Noble",  
"ScheduleDuration": 60,  
"streetaddress": "150 West Avenue ",  
"ScheduleId": 70,  
"maritalstatus": "other",  
"patientid": 1000,  
"gender": "female",  
"ScheduleTime": "Apr 28 13:30"  
},  
{  
"dateOfBirth": "01-02-1981",  
"phone": "4082309719",  
"zipcode": "94538",  
"state": "CA",  
"lastname": "Dew",  
"firstname": "John",  
"Country": "USA",  
"city": "San Jose",  
"ScheduleDuration": 90,  
"streetaddress": "Stevenon Blvd",  
"ScheduleId": 72,  
"maritalstatus": "married",  
"patientid": 1001,  
"gender": "male",  
"ScheduleTime": "Apr 28 16:30"  
}  
],  
"userid": 104  
}

C:\>curl --header "Content-type:application/json" --request POST --data "{\"user  
name\":\"brandt\",\"password\":\"2222\",\"gmtOffSet\":-330,\"usertype\":\"1\"}"  
<http://204.13.110.186:9000/1/login>

{  
"patients": [  
{  
"dateOfBirth": "08-22-2001",  
"phone": "4155559988",  
"zipcode": "77654",  
"state": "Ogden Utah",  
"lastname": "Smith",  
"firstname": "Jenny Benne",  
"Country": "USA",  
"city": "721 North",  
"ScheduleDuration": 60,  
"streetaddress": " 1164543 South",  
"ScheduleId": 77,  
"maritalstatus": "single",  
"patientid": 997,  
"gender": "male",  
"ScheduleTime": "Apr 29 01:00"  
},  
{  
"dateOfBirth": "05-12-1942",  
"phone": "10115551212",  
"zipcode": "94491",  
"state": "CA",  
"lastname": "Giacomo Guilizzoni",  
"firstname": "PELDI",  
"Country": "USA",  
"city": "San Mateo",  
"ScheduleDuration": 90,  
"streetaddress": "72 E. GreeneSt",  
"ScheduleId": 79,  
"maritalstatus": "married",  
"patientid": 999,  
"gender": "female",  
"ScheduleTime": "Apr 29 04:00"  
}  
],  
"userid": 105  
}

# How to manage the server:

Below are the steps to start the play server on (204.13.110.186) server machine for the phm platform :

Please keep access info for to access phm platform, that I sent before and also it is there in this email thread too

1. Connect to vpn using username& password provided in access Info.

2. Install putty for to connect to SSH servers 204.13.110.186 or 204.13.110.185.

3. Connect to 204.13.110.185  which is database server through putty, login and enter password(please see in access info for ssh username and password)for to connect to mysql  type this mysql -u phmh01sa -p , it  will ask for password.(Need to give database server password, please see in access info)

3.   Connect to 204.13.110.186 through putty, login and enter password(please see in access info for username and password) for to start and stop the phm application.

For to stop and start the application

4. On 204.13.110.186 server , goto

phmh01admin@PHMH01VMW01:~/phm/phmpapp-1.0-SNAPSHOT$

then first see whether there is running process do ls and see

phmh01admin@PHMH01VMW01:~/phm/phmpapp-1.0-SNAPSHOT$ ls  
lib  logs  README  RUNNING\_PID

                                   or

phmh01admin@PHMH01VMW01:~$ ps -ef|grep java

for to see the running processes

5. For to stop running  play.core.server.NettyServer find the process id using the above command or open the RUNNING\_PID file and see the process id

phmh01admin@PHMH01VMW01:~$ kill -9 process\_id   ( ex: if process id is 1 then do kill -9 1)

6. For to start , do the following

phmh01admin@PHMH01VMW01:~$ ./start (run the start script)

7.Once started , then press enter and close putty.