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| **Date:** | 17th September 2015 (Thursday) |
| **Time:** | 1900 |
| **Venue:** | SMUX Meeting Room 2-2 |
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| **Attendees:** | All |
|  |  |
| **Agenda:** | Research |

**Hibernate**

LocationLookUp is the main class

If want to create foreign key

@ManyToOne(optional=false)

@JoinColumn(name="locationID",referencedColumnName="locationID")

private LocationLookUp locationLookUp;

**Database (Hibernate + JPA)**

Upload in specific order > Applookup, locationlookup, demographics -> Apps, locations

appLookUp linked to App, App is linked to Demographics

demographic and app are linked by macAddress

location and locationLookUp are linked by locationId

app\_id is not a primary key in App table because we are not able to use many App in a specific timing for a user

some macaddress in location is not inside demographic table so it is not linked

@Entity

@Table(name = "applookups") //must map to database tables in php

public class AppLookUp {

@Id

@Column(name="appID") //must let hibernate know the primary key

private int appID;

Provider is still Hibernate, but we are complying to JPA rule. If we want to use other method, it will still work.

App requires more than 1 primary key

So we have to create an AppPK class to put the 2 composite keys into AppPK to form the primary key.

private Date timeStamp;

@OneToOne

@JoinColumn(name="macAddress",referencedColumnName="macAddress") //macAddress name of the column which we are using it for, it refers to App while referencedColumnName refers to macAddress in demographic

private Demographic demographic; //have to put in demographic class

@ManyToOne(optional=false) refers to Many to zero

**SQL Query**

We thought about the data type of the object that is retrieved from SQL database when querying through hibernate and researched on it.

* 1. After querying, List<Object[]> is returned
  2. To use the values, loop through each Object[]
  3. For each Object[], cast every element according to the sequence of columns in the select statement

The meeting was adjourned at 9 pm. These minutes will be circulated and adopted if there are no amendments reported in the next three days.

Prepared by,

Remy

Vetted and edited by,

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