**Database Design**

Feb 12, 2013

# Data Stored On Device

* My group ids
* Friend records for all friends for all users in each of my groups
  + First name
  + Last name
  + Photo (9K png file ?)
  + Friend\_id
  + Mobile Phone number (only for my own friends)
  + Email address (only for my own friends)
* Last requested group Event\_Id for which server replied, for each group I am a member of
* My user id and authentication and language
* Most recent events list, up to a max of N records (N is to be determined)
  + Similarly there are much smaller event lists for each friend in each group. The same events between lists are not copies but held by reference.
* Timestamp of most recent friend list sync
* Timestamp of most recent group list sync

# Data Stored on Server

Server Data is stored in MongoDB, which easily supports scaling and natively uses JSON. There is no need for normalization but data (documents) are stored without major schema differences between them.

## Community Event

* Unique Event id (int 32bit)
* Time stamp
* Group id
* User id
* Friend id
* Type enum
  + Threshold move up
    - New threshold level number
  + Threshold move down
    - New threshold level number
  + Activity type id
* Prayer requested Boolean
  + which group member ids have pledged to pray *(prayer pledge count is the count of this set of user ids)*
* Other activity description string (not translated)
* System: Event creation time

## User

* Unique id
* Photo
* First name
* Last name
* Belong to Group ids
* Language (en, fr)
* Flag: active/suspended (controlled by admin)

## Friend

* Unique id
* Photo (what size?, 60x60 in one test, matching the wireframes, facebook uses much smaller size)
* First name
* Last name
* Email
* Mobile Phone number/SMS
* Threshold level

## Group

* Unique id
* Name
* Set of user ids
* Leader user id

### Activity

* Unique id
* Title (translated)
  + Suitable for event list display
* Textual Description (translated)
* Threshold level