

# Profiler

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## 1 Loading the project

Use the profiler.sql file to load the schema in your database. You can populate the data in it by going on creating new users. Set up the public /var/www folder in the server side for storing of images and videos. It is explained in the point **"Sharing of images used in webapp"** of **Setting up server side**. Change the Database handler parameters in the file DBHandlerParameters.java according to your database.

Add the file **java-json.jar** in classpath in your project.  
Then run the server.

## 2 Setting up server side

### **\*Install postgresql:**

Enter the following commands to install postgresql in server:

---

```
sudo apt-get update
sudo apt-get install postgresql postgresql-contrib
```

---

### **\*Set up postgresql:**

Path may be slightly different depending on version.

---

```
cd ~
mkdir postgresql
cd postgresql
/usr/lib/postgresql/9.5/bin/initdb -D dbprojectdb
```

---

### **\*Changing port number:**

```
edit dbprojectdb/postgresql.conf and
change
#port = 5432
to
port = 5081
```

**\*Changing unix socket directories:**

Change

```
#unix_socket_directories = '/var/run/postgresql'
```

to

```
unix_socket_directories = '/xxx/postgresql'
```

where xxx is the full path of your home directory

**\*Sharing database over network (Not necessary if project is running on the same machine):**

Add following line in postgresql.conf:

```
listen_addresses = '*'
```

Add following line in pg\_hba.conf:

```
host all all 0.0.0.0/0 trust
```

**\*Start database server (Everytime you restart PC):**

---

```
/usr/lib/postgresql/9.5/bin/pg_ctl -D ~/postgresql/dbprojectdb/ -l logfile start
```

---

**\*Connect to database for debugging database using sql:**

```
psql -h localhost -p 5081 -d postgres -U <username>
```

**\*Sharing of images used in webapp:**

Change the permissions of the html directory in /var/www

If you don't see this directory then you need to install apache2

---

```
sudo apt-get install apache2
```

---

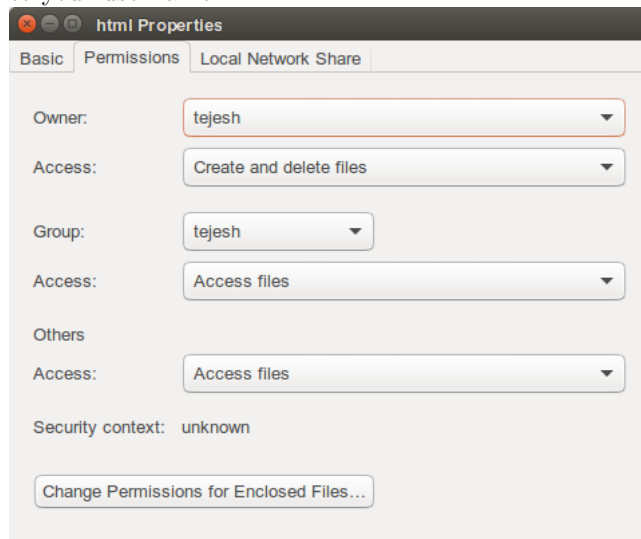
For this you need to open file browser in root mode:

---

```
sudo nautilus
```

---

Then browse to the directory /var/www and change properties of html folder to your username



Then create the directory DBProjectImages in /var/www/html after exiting from root mode

### 3 Setting up tomcat server

Install tomcat 8

---

```
sudo apt-get install tomcat8
```

---

Then fix directories structure:

---

```
cd /usr/share/tomcat8
sudo ln -s /var/lib/tomcat8/conf conf
sudo ln -s /var/log/tomcat8 log
sudo ln -s /etc/tomcat8/policy.d/03catalina.policy conf/catalina.policy
sudo chmod -R a+rx /usr/share/tomcat8/conf
```

---

Allow startup from inside eclipse (Everytime after restarting PC):

---

```
/usr/share/tomcat8/bin/shutdown.sh
```

---

While adding new server in eclipse select add manually and give the path as  
/usr/share/tomcat8

## 4 Functional specifications

### 4.1 Broad goal of project

This is a social networking webapp. It has profiles of persons and groups. People can interact with each other by posts which may have text, photos, links and videos in them. Posts may have comments and replies. Notifications are sent to people for any changes like in case of comments and likes. People can chat in chatbox which may contain more than two people.

### 4.2 Functions (at a high level) that are supported

On logging in user will see newsfeed which contains posts from groups and users' wall whom you follow sorted by time.

You can also see walls of people whom you follow.

You can also see wall of a group which you follow.

You can like a post and also comment on it.

You can also reply to someone's comment on a post.

Search box to search for a group or users by their name which provides links to their walls.

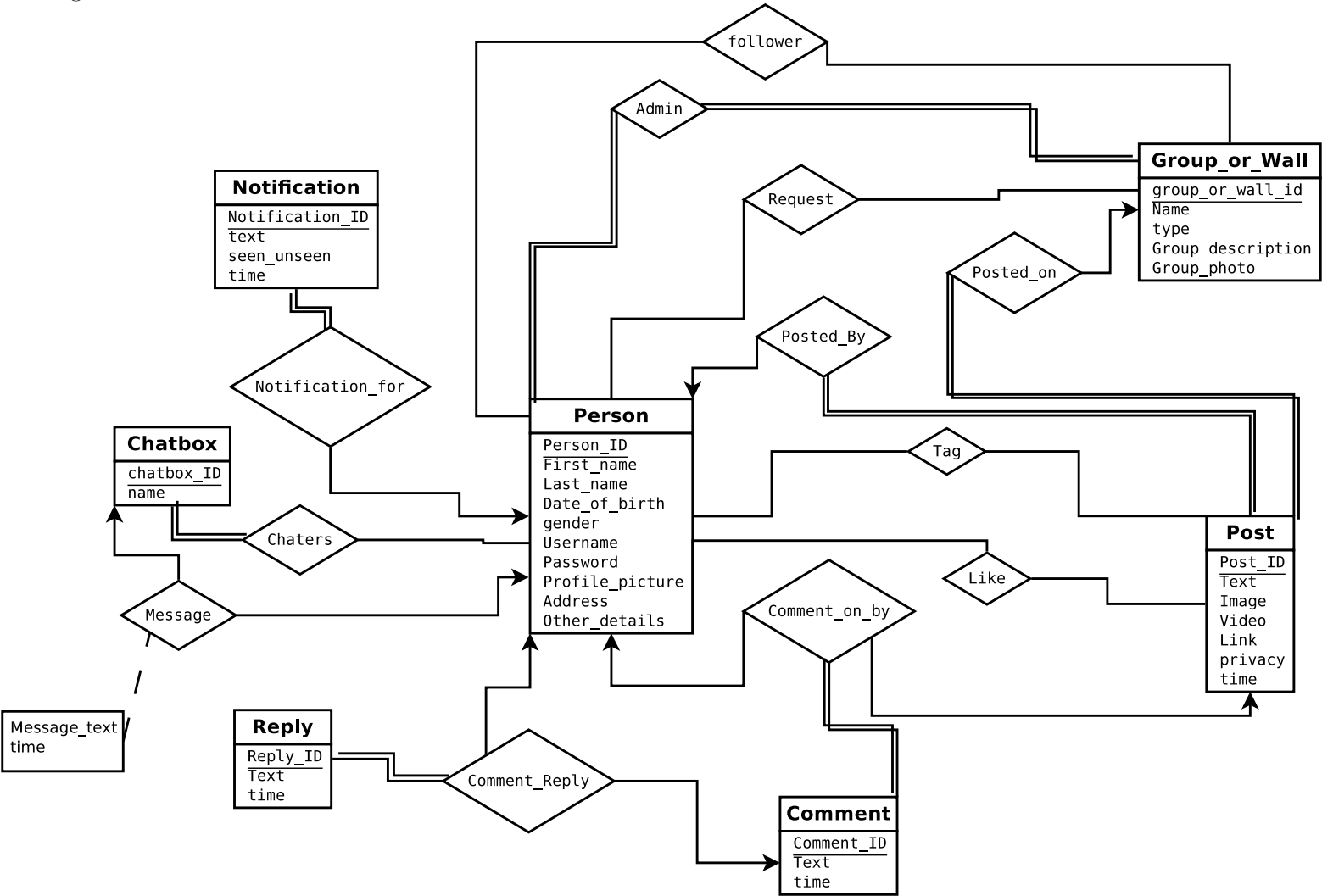
Message url to see all the chats of which you are a participant and all earlier messages in them. You can send messages to them.

Notifications come to user when someone likes his post or comments on it. Notification is also sent when someone replies to his/her comment. They are also sent when someone posts on his/her wall. User is also notified when a new message comes to any of the chats of which he/she is a member.

Groups have admin. They can add new admins. They can also accept requests from other users to follow the group.

5 ER diagram for stored data

ER diagram is as below:



## 6 Table design for stored data

### 6.1 Person

**Attributes:** Person\_ID, First\_name, Last\_name, Date\_of\_birth, gender, Username, Password, Profile\_picture, Address, Other\_details

All are of type varchar

Profile\_picture contains link of the image

### 6.2 Post

**Attributes:** Post\_ID, Text, Image, Video, Link, privacy, time

All are of type varchar

Image, Video contain link of the image/video

### 6.3 Posted\_By

**Attributes:** Person\_ID, Post\_ID

A user can post many posts but a post can be posted by only one user.

### 6.4 Group\_or\_Wall

**Attributes:** group\_or\_wall\_id, name, type, Group\_description, Group\_photo

A place which contains the posts.

### 6.5 Posted\_on

**Attributes:** Post\_ID, group\_or\_wall\_id

A post is posted to only one wall or group but a wall or group can contain many posts.

### 6.6 follower

**Attributes:** Person\_ID, group\_or\_wall\_id

Maps users with the groups they follow.

A user can follow many groups or walls. A group or wall can be followed by many users.

## 6.7 Admin

**Attributes:** Person\_ID, group\_or\_wall\_id

Contains admins of group or wall.

There is a wall for a user whose admin is user himself.

## 6.8 Request

**Attributes:** Person\_ID, group\_or\_wall\_id

Contains the list of the people who wish to follow a group or wall but are not a follower yet. Admins can accept the request and allow them to follow.

## 6.9 Tag

**Attributes:** Person\_ID, Post\_ID

Defines the person who is tagged in a post.

A person can be tagged in many posts and many people can be tagged in a post.

## 6.10 Like

**Attributes:** Person\_ID, Post\_ID

Defines the people who have liked the post.

A user can like many posts and a post can be liked by many people.

## 6.11 Comment

**Attributes:** Comment\_ID, Text, time

Comment contains a text and the time at which it was posted.

## 6.12 Comment\_on\_by

**Attributes:** Person\_ID, Comment\_ID, Post\_ID

Contains the person who commented on a post.

A comment is posted by only one user and on only one post.

## 6.13 Reply

**Attributes:** Reply\_ID, Text, time

Just like there is a comment on a post, there is a reply on a comment.



## 6.14 Comment\_Reply

**Attributes:** Person\_ID, Reply\_ID, Comment\_ID

Just like Comment\_on\_by

## 6.15 Chatbox

**Attributes:** chatbox\_ID, name

## 6.16 Chaters

**Attributes:** Person\_ID, chatbox\_ID

A chatbox is shared among several people and a person can have several chatbox. It provides interface for displaying messages only to the members of the chatbox.

## 6.17 Message

**Attributes:** Person\_ID, chatbox\_ID, Message\_text, time

Person\_ID here represents the person who sent the message to the chatbox whose ID is chatbox\_ID

It also has the time at which the message was sent.

A message is sent by only one person and to only one chatbox

## 6.18 Notification

**Attributes:** Notification\_ID, text, seen\_unseen, time

Contains the notification message for some user. seen\_unseen denotes whether the notification is seen or unseen. time denotes the time at which the notification was generated.

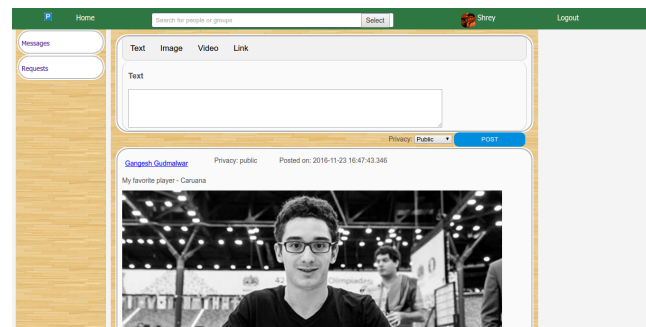
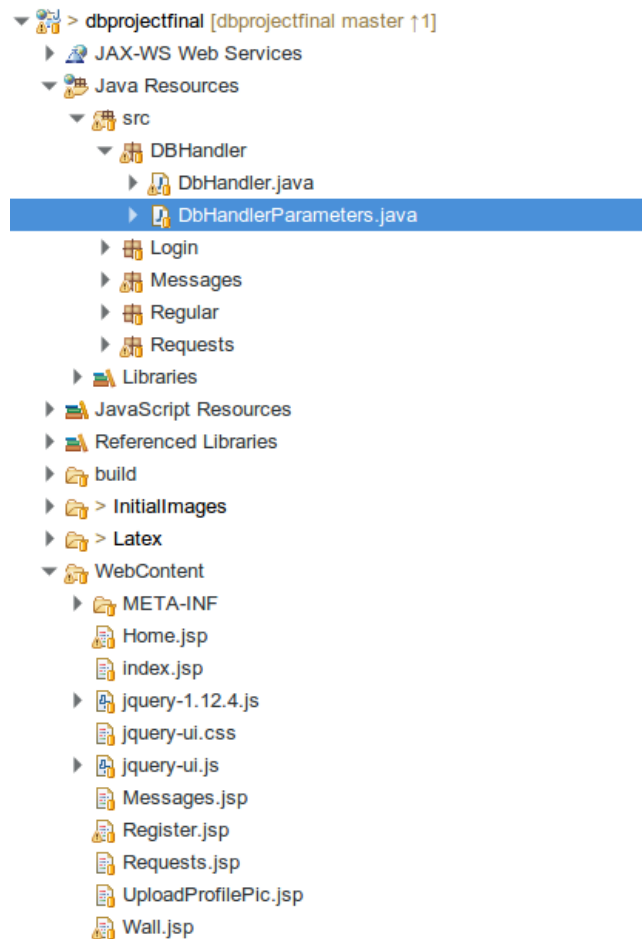
## 6.19 Notification\_for

**Attributes:** Notification\_ID, Person\_ID

Maps the notification to the person to whom it corresponds

A person can have many notifications but every notification is associated with only one person.

## 7 Screenshots from the project



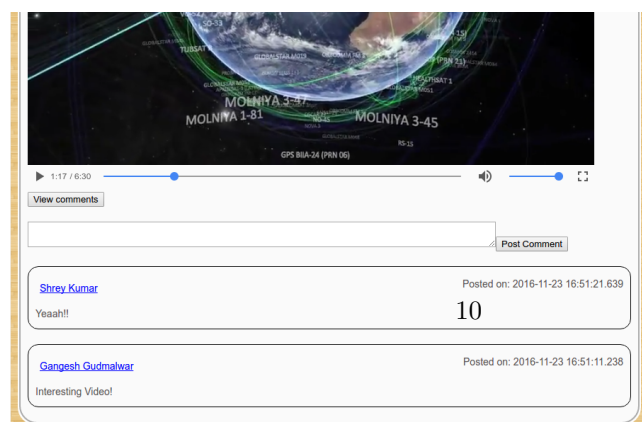
Welcome. Please login.

Username

LOGIN

Don't have a account , Create new one

REGISTER



Shrey Kumar

Posted on: 2016-11-23 16:51:21.639

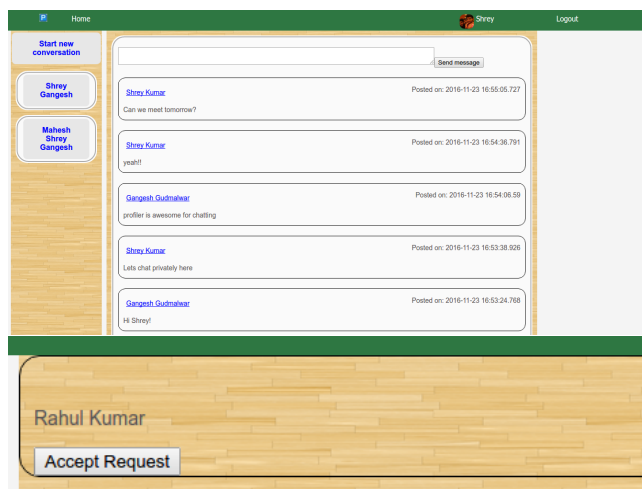
Yeaah!!

10

Gangesh Gudmalwar

Posted on: 2016-11-23 16:51:11.238

Interesting Video!



First name	<input type="text"/>
Last name	<input type="text"/>
Date Of Birth(yyyy-mm-dd)	<input type="text" value="dd/mm/yyyy"/>
Gender	<input type="text"/>
Mobile no.	<input type="text"/>
Email	<input type="text"/>
Address	<input type="text"/>
Other Details	<input type="text"/>
Username	<input type="text"/>
Password	<input type="password"/>
Re-enter Password	<input type="password"/>
<input type="button" value="REGISTER"/>	<input type="button" value="CANCEL"/>