|  |
| --- |
| ***members*** |
| **member\_id(int, auto\_increment)** | 1 |
| **first\_name(varchar\_20, not\_nul)** | tamaratombra |
| **last\_name(varchar\_20, not\_null)** | aremieye |
| **user\_name(char\_10, unique, not\_null)** | tombra |
| **password(char\_10, not\_null)** | password |
| **email(varchar\_40, not\_null)** | [tombra4ril@gmail.com](mailto:Tombra4ril@gmail.com) |
| **phonenumber(varchar\_14, not\_null)** | 08105912717 |
| **country(varchar\_20, not\_null, default “nigeria”)** | nigeria |
| **registration\_date(datestamp, not\_null)** | 22 august, 2018 |
| **ip\_address(varchar\_15, not null)** | ::1 |
| **logged\_in(tinyint, default 1)** | 1 |
| **Primary key(member\_id)** |  |

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| --- |
| ***general\_message*** |
| **message\_id(int, not null, auto\_increment)** |
| **member\_id(int, not null)** |
| **member\_status\_id(int, not null)** |
| **replies(int, not null, default 0)** |
| **message\_time(datetime, not null)** |
| **Message(text, not null)** |
| **Primary key(message\_id)** |
| **Foreign key(member\_id, member\_status\_id)** |

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| --- |
| ***admin*** |
| **admin\_id(int, primary key)** | 1 |
| **username** | anyusername |
| **password** | anypassword |

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| --- |
| ***forum\_names*** |
| **forum\_names\_id(int not null, auto increment)** | 1 |
| **forum\_name(varchar\_50 not null)** | general |
| **forum\_description** | all topics |
| **primary key(forum\_names\_id)** |  |

|  |
| --- |
| ***forums*** |
| **forum\_names\_id(int, not null)** | 1 |
| **member\_id (int, not null) – This represents the admin of the forum** | 1 |
| **primary key(forum\_names\_id)** |  |
| **foreign key (forum\_names\_id, member\_id)** |  |

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| --- |
| ***locked*** |
| **locked\_id(int, auto\_increment, primary key)** | 1 |
| **member\_id(int, not null)** | 3 |
| **forum\_names\_id(int, not null)** | 2 |
| **primary key(locked\_id)** |  |
| **foreing key(member\_id, forum\_names\_id)** |  |

|  |
| --- |
| ***general\_forum*** |
| **member\_id(int, not null, primary key)** |
| **member\_status\_id(int not null)** |
| **primary key(member\_id)** |
| **foreign key(member\_id) – on delete cascade** |

|  |
| --- |
| ***general\_reply\_message*** |
| **reply\_id** |
| **member\_id(int, not null)** |
| **message\_id** |
| **reply\_time** |
| **Reply** |
| **Primary key(reply\_id)** |
| **Foreign key(member\_id, message\_id)** |

|  |
| --- |
| ***members\_status*** |
| **member\_status\_id(int, auto\_increment, primary key)** | 1 | 2 | 3 |
| **member\_status\_name(varchar\_30, not null)** | admin | forum\_admin | member |

# CREATION OF DATABASE

## members

This table stores the members details at signup. This table fields get inserted in the registration.php page.

create table member(

member\_id int auto\_increment primary key,

first\_name varchar(20) not null,

last\_name varchar(20) not null,

user\_name char(10) unique not null,

password char(10) not null,

email varchar(40) not null,

phone\_number varchar(14) not null,

country varchar(20) not null default "nigeria",

registration\_date timestamp not null,

ip\_address varchar(15) not null,

logged\_in tinyint default 1

)

## members\_status

This table stores the three status a member can take which should be populated on creation of the database. The admin, forum\_admin and the general status are the only 3 for now. Though with time the numbers might increase.

The fields in this table should not be populated from any page only from the admin page when necessary.

create table members\_status(

status\_id int auto\_increment primary key,

status\_name varchar(30) not null

)

## locked

CREATE TABLE locked(

locked\_id INT AUTO\_INCREMENT PRIMARY KEY,

member\_id INT NOT NULL,

forum\_id INT NOT NULL,

FOREIGN KEY(member\_id) REFERENCES members(member\_id) ON DELETE CASCADE,

FOREIGN KEY(forum\_id) REFERENCES forums(forum\_id) ON DELETE CASCADE

)

## forums

CREATE TABLE forums(

forum\_names\_id INT NOT NULL,

member\_id INT NOT NULL,

PRIMARY KEY(forum\_names\_id),

FOREIGN KEY(member\_id) REFERENCES members(member\_id) ON DELETE CASCADE,

FOREIGN KEY(forum\_names\_id) REFERENCES forum\_names(forum\_names\_id) ON DELETE CASCADE

)

## forum\_names

This table stores all the forum names with it’s id. The table should be created and populated with the general forum when the database is created.

CREATE TABLE forum\_names(

forum\_names\_id INT NOT NULL AUTO\_INCREMENT,

forum\_name VARCHAR(50) NOT NULL,

forum\_description VARCHAR(100) NOT NULL DEFAULT “New Forum”,

PRIMARY KEY(forum\_names\_id)

)

## general\_forum

CREATE TABLE general\_forum(

member\_id INT NOT NULL,

member\_status\_id INT NOT NULL,

PRIMARY KEY(member\_id),

FOREIGN KEY(member\_id) REFERENCES members(member\_id) ON DELETE CASCADE )

)

## general\_message

CREATE TABLE general\_message(

message\_id INT NOT NULL AUTO\_INCREMENT,

member\_id INT NOT NULL,

member\_status\_id INT NOT NULL,

replies INT NOT NULL DEFAULT 0,

message\_time DATETIME NOT NULL,

message TEXT NOT NULL,

PRIMARY KEY(message\_id),

FOREIGN KEY(member\_id) REFERENCES members(member\_id),

FOREIGN KEY(member\_status\_id) REFERENCES members\_status(member\_status\_id)

)

## general\_reply\_message

CREATE TABLE general\_reply\_message(

reply\_id INT NOT NULL AUTO\_INCREMENT,

member\_id INT NOT NULL,

message\_id INT NOT NULL,

reply\_time DATETIME NOT NULL,

reply TEXT NOT NULL,

PRIMARY KEY (reply\_id),

FOREIGN KEY(member\_id) REFERENCES members(member\_id),

FOREIGN KEY(message\_id) REFERENCES general\_message(message\_id)

)

# HOW INSERTION IS MADE AT EACH STAGE

## REGISTRATION OF USER

* Insert the data into the members table.

This is done by;

1. Converting the **firstname, lastname, username and country to lower case, capitalize it and the use the htmlspecialchars to process it**.
2. Process the username using the **strip\_tags function**.
3. Process the password using **htmlspecialchars then convert using sha1**.
4. Sanitize the country code and phone number by **striping tags and then process it using htmlspecialchars**.

* Redirect the user to the general.php page(general forum) and pass along a hidden user-id using sessions to the general.php page.

**Before doing the above**, the ip address of the user is search against other ip address in the database if there is a match. If there is no match, then the user is redirected to the general.php page else **the logged\_in column of all the members table is set to 0** of all the **members that matched the current user’s ip address**.

If the user does not go ahead with the registration then before redirect destroy the session if possible.

If the user goes ahead and registers pass along a session variable.

## IN THE GENERAL PAGE

* When the user is in the general page display a set of messages (maybe 20 in number) based on the current date(day).

The page should check if the database contains up to the specified number of messages to display, if not up to that number the page can get more messages from the previous day.

You can also create room to increase the number of displayed messages.

* The page should have the next and previous buttons to navigate the messages.

For the now users should not be able to create new forums.

## HOW EACH MESSAGE DIV SHOULD LOOK LIKE

* It will have an avatar at the top left of the message div.
* It will have a username at the top left after the avatar of the message div.
* It will have the time of the post below the username.
* It will have a like icon just below the message.
* It will have a reply link(icon) by the side of the like icon.

## HOW THE REPLY INPUT FIELD SHOULD LOOK LIKE

* It should be a pop up box(modal box).
* It should have a reply and cancel button.

## CREATION OF A NEW FORUM

* The user creates the new forum with a given name.
* The name of the forum is used to create the new table in the database.
* If a user enters a wrong formatted forum name the creation of the table should send back an error message of a kind that such name cannot be used to form a new forum.