**Social Networking Database System.**

Project Documentation.

**TEAM NO .11**

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**PROJECT DESCRIPTION**

The aim of the project is to create a social networking platform using Python, MySQL, and Flask that allows users to connect to people and share their posts. Users will be able to follow people from around the world, find events in their city, send messages, like and comment on their friend’s posts.

Some of the entities that need to be maintained are

* PROFILE:(Profile details)
  + Profile ID : (Primary Key)
  + fname
  + lname
  + username
  + password
  + gender
  + contactno
  + d.o.n
  + emailid
* EVENT PAGE:(Page details)
  + Pageid : (PRIMARY KEY)
  + Adminid (FOREIGN KEY)
  + Registereduserid (FOREIGN KEY)
  + name
  + location
  + description
  + createdon
* POST:
  + Postid : (PRIMARY KEY)
  + Pgid : (FOREIGN KEY)
  + Profileid : (FOREIGN KEY)
  + Postdata
  + Postlink
  + Likescount
  + commentscount
* LIKES
  + Profileid : (FOREIGN KEY)
  + Postid :(FOREIGN KEY)
* COMMENTS
  + Profileid : (FOREIGN KEY)
  + Postid : (FOREIGN KEY)
  + content
* FRIENDLIST
  + Profileid : (FOREIGN KEY)
  + Friended : (FOREIGN KEY)
* REGISTEREDUSERS
  + Profileid : (FOREIGN KEY)
  + Pgid : (FOREIGN KEY)
* IMAGE
  + Postid : (FOREIGN KEY)
  + imagesize
* AUDIO
  + Postid : (FOREIGN KEY)
  + audiosize
* TEXT
* Postid : (FOREIGN KEY)
* Textsize

**QUERIES**

1. Find profile of John Smith
2. Show people who liked a specific post
3. Show people going to event in Arlington
4. Find Mutual friend of user X and Y
5. Show admin of a page
6. Retrieve the first name, number of likes and comment content recieved by the users who posted on the social media performing join on: profile, post and comment
7. Post having likes more than 1
8. Names of all the users registered for events
9. Retrieve posts with maximum likes
10. Show the number of users registered for events in descending

**ASSUMPTIONS**

1. Every user is a friend of every other user
2. Every page has only one admin
3. Each user can be an admin of several pages
4. Event page can have posts

**Conclusion**

As good as it is now, there can still be made improvements. While this project has supplied the basics for a system to keep track of users, many further enhancements are desired for greater control of the information. The website can be made more dynamic. We can improve the user-interface to make it more user friendly and add privacy options.

While doing this project we also gained deeper understanding about relational database design and how it can be implemented in real life situations. The project was a learning experience for both of us and allowed us to improve upon our SQL, Python, and Flask, JINJA2 skills. Having a web based front end removes the requirement of users having to understand and use a database directly, and allows users to connect from anywhere.