ER Diagram Documentation

Users: Table that holds all users of the social network
UserID - Primary Key
FirstName- User's first name
LastName- User's last name
Username- User's username (handle)
Email- User's email
BirthDate- User's date of birth
Location- User's geographical location
ProfileImageUrl- User's profile picture URL (stored on server)
Bio- User's profile bio description
ReputationPoints- User's reputation points
IsAdministrator- User's admin status
BanStatus- User's ban status
CreateDate- User's profile creation date
UpdateDate- User's last update date

Follows: Table that tracks which users are following which users
FollowerID-Primary Key, Foreign Key, References Users.UserID
FolloweeID- Primary Key, Foreign Key, References Users.UserID

Communities: Table that holds the religions / communities that users may belong to
CommunityID- Primary Key
Name- Name of the community
Description- Description of the community
IsVerified- Is the community a verified community (verified by the admins)
CreateDate- When was the community created
BanStatus- Community's ban status

Members: Table that tracks which users belong to which communities
UserID- Primary Key, Foreign Key, References Users.UserID
CommunityID- Primary Key, Foreign Key, References Communities.CommunityID

Moderators: Table that tracks which users are moderating which communities
UserID- Primary Key, Foreign Key, References Users.UserID
CommunityID- Primary Key, Foreign Key, References Communities.CommunityID

Posts: Table that hold posts / prayer requests that users create

PostID- Primary Key
UserID- Foreign Key
Upvotes- Number of upvotes
Downvotes- Number of Downvotes
BodyText- Body text
PostTitle- Title of post
CreateDate- Date of creation
IsComplete- Boolean value that marks a post as a complete or a prayer as “answered”

PostUpdates: Table that holds all updates that users add to their posts
PostUpdateID- Primary Key
PostID- Foreign Key, References Posts.PostID
BodyText- Body text for the post update

PostsToCommunities: Table that tracks which posts are posted on which communities
PostID- Primary Key, Foreign Key, References Posts.PostID
CommunityID- Primary Key, Foreign Key, Reference Communities.CommunityID

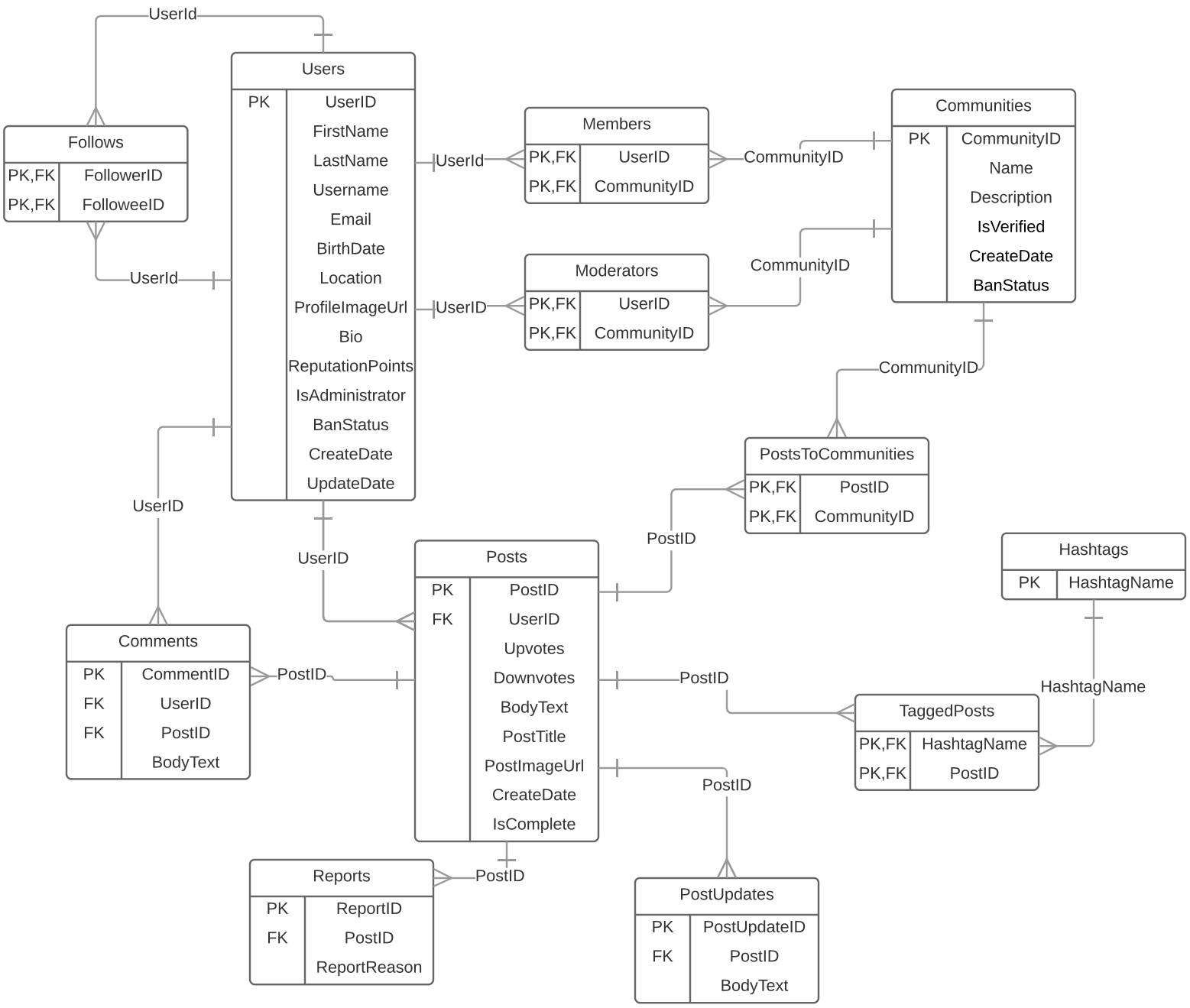
TaggedPosts: Table that tracks which hashtags are used on which posts
HashtagName- Primary Key, Foreign Key, References Hashtags.HashtagName
PostID- Primary Key, Foreign Key, References Posts.PostID

Hashtags: Table that holds all the hashtags that are created by users
HashtagName- Primary Key, the unique name of the hashtag

Comments: Table that holds all comments that are posted on users’ requests
CommentID- Primary Key
UserID- Foreign Key, References Users.UserID
PostID- Foreign Key, References Posts.PostID
BodyText- Body text for the comment

Reports: Table that holds moderator / admin reports for problematic posts
ReportID- Primary Key
PostID- Foreign Key, References Posts.PostID
ReportReason- Reason for the report (message from the reporter)

Helping Hands ER Diagram



IT Requirements Template

*The following are all **the minimum** things that should be documented and discussed.*

1. Server Platform (for each "server" required)
   1.1. Physical system requirements
      1.1.1. Storage capacity
         Our current cap is set to 50 gigs
      1.1.2. Speed requirements / response time parameters
         System must have a response time of up to 2 seconds delay.
      1.1.3. Scalability plans
         Scalability is high in terms of adding more servers to support more users, and have more space to backup and store data.
   1.2. Virtual system requirements
      1.2.1. Ubuntu Linux
      1.2.2. Number of images expected
         1 image however subject to change
   1.3. Connectivity
      1.3.1. Network considerations
         Traffic handled by web server
      1.3.2. Interconnection to what other systems
         Server will be able to connect to each other.
2. Reliability
   2.1. Service Level Agreements
      2.1.1. Uptime Requirements
         100% uptime with back up servers for to use while the main servers are in maintenance.
      2.1.2. Response time requirements
         No more than 5 seconds
3. Recoverability
   3.1. Where are things backed up? How often?
      Backup is done and sent to other servers by the hour, and will decrease to half hour, to 15 minutes etc as the amount of posts generated increases.
   3.2. Access to backups?
      Only the admin can remote access into the server, anyone else needs physical access to the server with the correct permissions.
   3.3. What data is transient and doesn't need to be stored longer term?
      Posts older than 1 year will be archived, anything older than 1.1 years will be sent to heaven.
4. Security and Privacy
   4.1. Database
      4.1.1. Access controls by userid / roles
         Highest Roles Assigned: Admin and Mod
         Admin: All features unlocked. Assigns moderators, send users to heaven, modifies accounts.
         Mod: Can delete posts, sticky posts, ban users.

4.1.2. Update vs. Access

Administrators have modify and access privilege.

Moderators only have access privilege.

4.2. Account information

4.2.1. User data

Username and Password are stored on a database and encrypted.

4.2.2. [FERPA/Privacy]

All information is kept private and only top level admins have access to it. And it's only accessible physically.

4.3. Admin access controls

Admins have the power to create new users and delete users. Remove old/inappropriate prayers (shared between admin & moderator).

5. Maintenance

5.1. Planned down time requirements

5.1.1. Database maintenance

Database is maintained at a 100% uptime and done so with the use of backup servers.

5.1.2. Updates to course information

Servers will be updated while the website is up.

5.1.3. Times of year when IT does maintenance

January, June

5.1.4. Times of year when the systems are not available?

100% uptime.