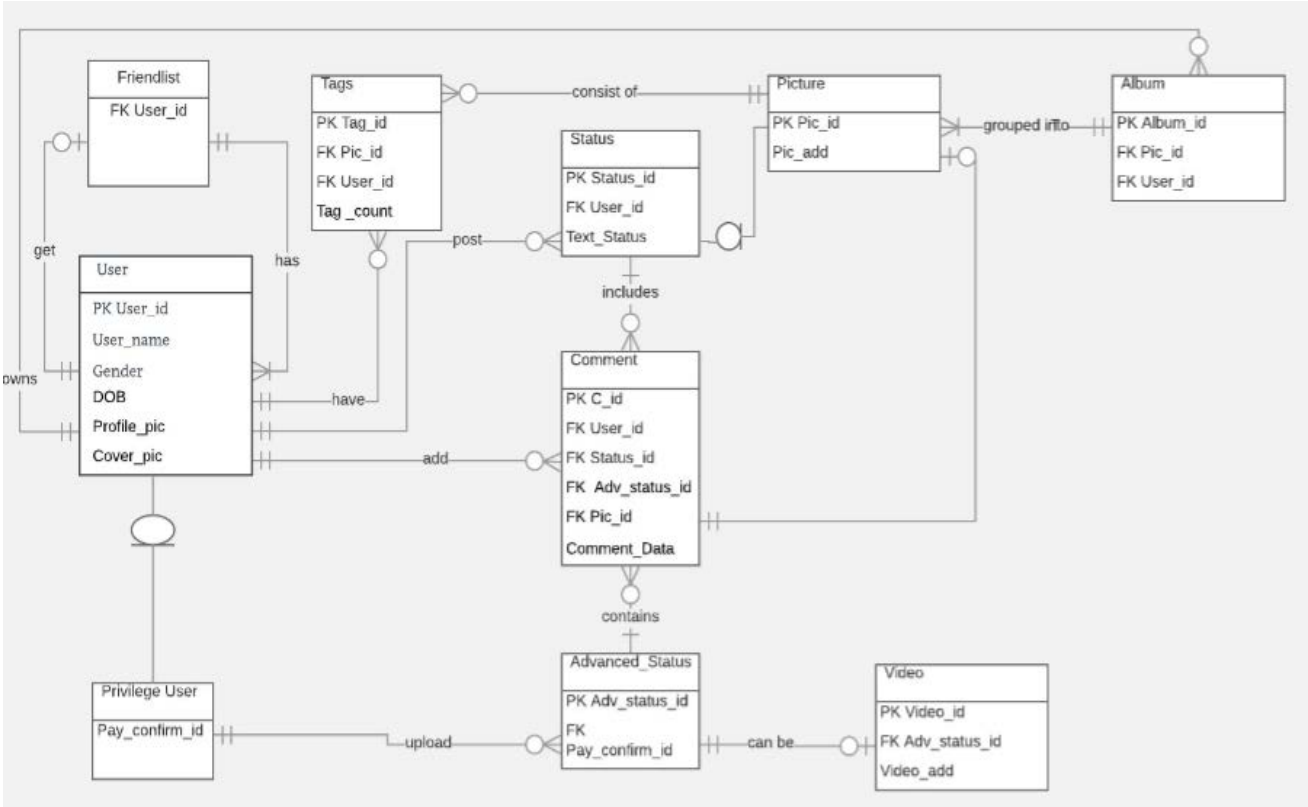
SBOOK ERD



Description:

- Sbook has following entities:
  1. User:
     Indicates the User of System.
  2. Privilege User:
     They are type of users with additional benefits.
  3. Friendlist:
     It stores the list of friends of a particular user.
  4. Status:
     Indicates Data in the form of Text or Picture posted by user.
  5. Advanced Status
     Indicates Data in the form of Video uploaded by user.

6. Picture:
   Represents Picture posted by user with or without text.
7. Albums:
   Represents container for storing pictures.
8. Videos:
   Represents Video uploaded by Users
9. Tags:
   Represents tags in a picture for a user.
10. Comment
    Represent comment made on any status.

- Every User has attributes such as User_id, User_name, Gender, DOB, Profile_pic and Cover_pic to represent information about the user. It can be of 2 types regular and privilege. Regular users are general User with same attributes. Regular user can upgrade to privilege user by onetime payment which generates Pay_confirm_id. Pay_confirm_id which is stored in Privelege user database. Every user has 0 or 1 Friendlist which consist of User_id of users he/she is friends with. Every user has 0 or1 Friendlist. Every Friendlist has 1 or many Users. Relation between them is a weak relation since if Users get deleted the friendlist also gets deleted. Every user owns 0 or many albums. Relation between them is weak because if user gets deleted then album related to them gets deleted.
- Users can post status which stores information about Status_id, User_id and Text_Status which is the text content. User can post the Text_Status or Text_Status with Pictures. Pictures are grouped into albums. Picture has associated Pic_add to indicate address of server on which it is stored. One Album can have 1 or many pictures and has a weak relationship because if album gets deleted then all the pictures in that album gets deleted. User and Status share a weak relation because if user gets deleted the status posted by that user gets deleted.
- Privilege Users can upload Advanced_Status which stores the value Advanced_Status_id, Pay_confirm_id to have list of privilege users. Advanced_Status can be videos. One Advanced_Status can have 0 or 1 video. Video has Video_id and Video_add which indicates the location of video on the server. The relation is a weak relation because if the advanced status gets deleted then video gets deleted.
- User can comment on Status as well as Advanced_Status. Comment stores attributes C_id for each comment, User_id to keep track on which user commented, Status_id and Adv_Status_id to store which status was commented, Comment_data representing text can Pic_id for allowing to comment pictures. One Status (Advanced_Status) can have zero or many comments. Relationship is weak because if status gets deleted then comments can also get deleted. 1 Comment can have 0 or 1 picture. They share a weak relationship, comment gets deleted then picture gets deleted.
- Users tag each other on Pictures. One Picture can have 0 to many tags. They have a weak relation because if the picture gets deleted then tags associated with it gets deleted. One user can have 0 or many tags in many pictures. Tag_count is used to keep ensure that user is

tagged just once for a given Pic_id. They share a weak relationship since is the user gets deleted then all the associated tags also get deleted.

- Design choices can be made with independent relations as well if the data has to be stored in database for maintaining the inventory even after the user is no more in the system. I have made the design dependent to avoid unnecessary storage of data. So with user deletion all the data related to user gets deleted.