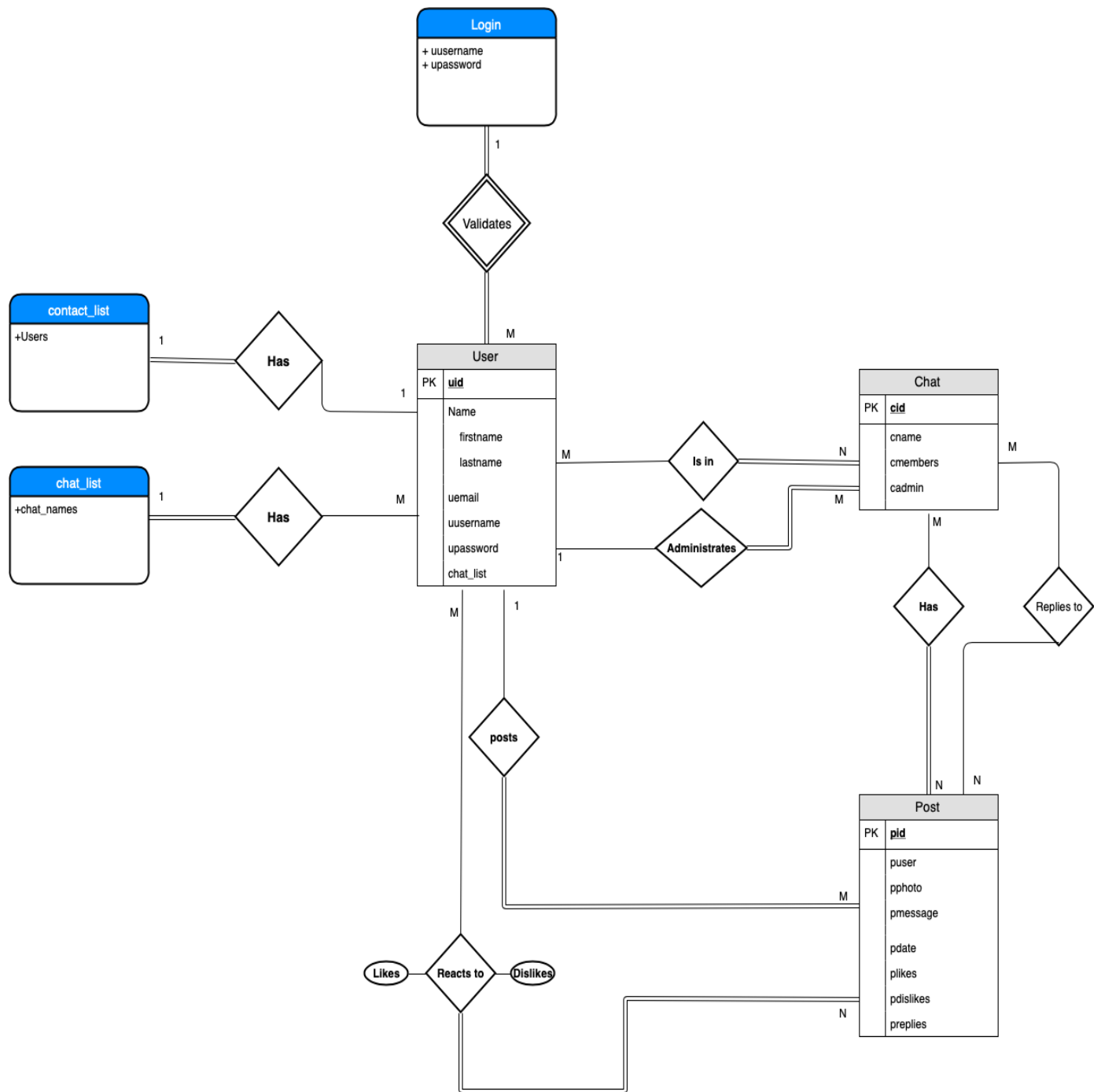**Universidad de Puerto Rico**
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Photo-Messaging-App

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Login
+ uusername
+ upassword

1

Validates

M

contact_list
+Users

1

Has

1

chat_list
+chat_names

1

Has

M

User

PK	uid
	Name
	firstname
	lastname
	uemail
	uusername
	upassword
	chat_list

M

Is in

N

M

Administrates

1

M

1

posts

Chat

PK	cid
	cname
	cmembers
	cadmin

M

M

Has

Replies to

N

N

M

Likes **Reacts to** **Dislikes**

M

N

Post

PK	pid
	puser
	pphoto
	pmessage
	pdate
	plikes
	pdislikes
	preplies

Entity – Relationship and Schema

A. Entities

a) **Users** - users in Photo-Messaging-App
1. Uid: serial Primary Key
2. Firstname: varchar(20
3. Lastname: vachar(20)
4. Uemail: varchar(20)
5. Uusername:varchar(20)
6. Upassword:varchar(20)
7. Chat_list:varchar(20)

b) **Chat** – contains information related to chat a group

1. cid: serial primary key
2. cmembers: varchar(20)
3. cadmin:varchar(20)

c) **Post** – messages sent on chats
1. Pid:serial primary key
2. Pphoto:varchar(20)
3. Pmessage:varchar(20)
4. Pdate: varchar(20)
5. Plikes – int
6. Pdislikes – int
7. Preplies:varchar(50)

B. Relationships:

1. User apped to contact_list and chat_list. A user has only on contact_list and a contact_list has only to one user. Also, we can see that a user can have 1 chat_list but chat_list are in multiple users.
2. User mapped to Chat. A user can be in many chats and chats can have many users. Also, a chat can be administrated by 1 user but a user can administrate many chats.
3. User mapped to Login. A login can validate many user but a user only has one login.
4. User mapped to Post. A user can post many posts and a posted can be posted by many users. Also, a user reacts to a post, which has attributes like dislike and likes
5. Chat mapped to Post. A chat can have multiple post and a post and be in multiple chats. Also a chat replies to many posts and can be replied by many chats.