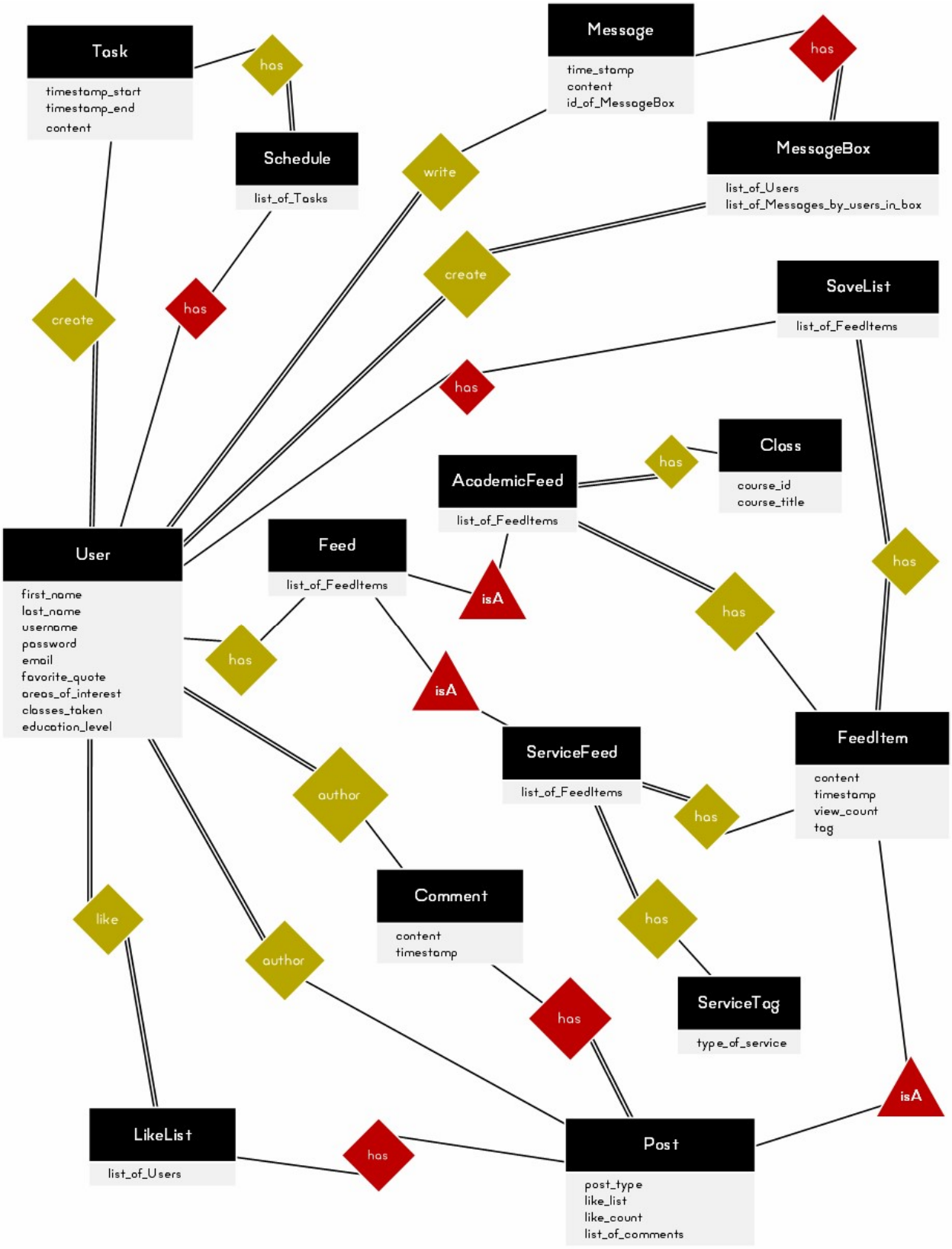
ER Diagram (embedding and referencing)



Description of how every page/widget of your application uses the entities in your database.

Academic:

The academic page will use the **class** entity to display different courses that the user may select. The academic page will show the several different course titles along with an image of it in a grid-like fashion. Once they click on a specific course title which is an attribute from the class entity they are directed to the feed for that course.
For example the academic page may display the box for Calculus, Biology, Physics, Finance. We get this information from the class entity.

Service:

The service page will use the **Service Tag** entity to display different service types that the user may select. The service page will show the several different service types along with an image of it in a grid-like fashion. Once they click on a specific service which is an attribute from the **Service Tag** entity they are directed to the feed for that service. For example the service page may display the box for Home improvement, babysitting, pet sitting, landscaping, etc and we get this info from the Service Tag entity.

Academic detail:

The academic detail page will use the **feed** entity display the feed. The feed uses the **feedItem** and **post** entity to populate the feed with different post from various users. Each post will use the **comment** entity and the **likeList** entity to show replies to the post and people who list of people who liked the post.

Service detail:

The service detail page will use the **feed** entity display the feed. The feed uses the **feedItem** entity and **post** entity to populate the feed with different post from various users. Each post may have comments or replies which will use the **comment** entity and the **likeList** entity to show replies to the post and the list of people who liked the post.

User profile:

The user profile page will use the **user** entity to display information about the user (name, favorite quote, and area of interest).

Message:

The message page will use the **messagebox** entity to show the list of the user's messages. When a message is clicked of expanded it will use the **message** entity to display the contents, timestamp and sender of the specific message.

Schedule:

The schedule page will use the **schedule** entity and **task** entity to show the list of task that the user has agreed to do. The task will show the specific details of each task (start time, end time, content).

Bookmark:

In the navigation bar will be a bookmark widget. When clicked it will use the **SaveList** entity to show the list of feedItems that the user has saved.

Config:

The config page will update the attributes on the **user** entity including: first name, last name, username, password, email address, and classes taken.

Attributes and Definitions

1. User

A unique user in our database.A different user will represent a different entity.In order to create an account on the website, the user needs a username, email and password. Only a registered user can use most functions of the website. It also contains the following information

- first_name
- last_name
- username
- password
- email
- favorite_quote
- areas_of_interest
- classes_taken
- education_level

A user can view other user's profile in order to check their credentials. However, some information on the profile can be set to private These include the following:

- Username
- Email
- Favorite_quote
- Area_of_interest
- Education_level

2. Feed

A list of posts(feed items) that a user can view once they are on service/academic page. Order of each feed displayed on the page is based on the time it was created.
Latest posts will be displayed on the top of this list. Users can only see feed items that are relevant to them.

- list_of_FeedItems

3. **Post**

This is the feed item. Each post should have contents with an optional image.It should have the following attributes:

- post_type
- like_list
- like_count
- list_of_comments

Once a user clicks on the like list the list of users who have liked the post will be displayed. Like count change as the size of likelist changes. A user can post content on the website. In fact, this is the key function of our product. A user posts a problem, and other users view the problem. Afterward, other users can privately talk to the author of the post or comment under the post.

4. **Like list**

Each element in the like-list has a reference to the user.It shows how many likes a post has.

- list_of_Users

5. **Comment**

It is a response to a post. Any user can respond to any post.

- Content
- TimeStamp

6. **Save list**

When the user saves a post, it creates a reference to the post in the user's save list. The user can access the post quickly by using the save list.

- List_of_Feeditems

7. **Schedule**

When two users perceive each other as a match, they can schedule a time to meet up in person and help each other out. Each user's schedule contains a list of tasks they need to complete and a deadline as well.

- List_of_tasks

8. **Message box**

A chat where users communicate. Messages will not load up until the user clicks inside the message box .

- list_of_users
- list_of_messages_by_users_in_box

9. **Message**

Users can create their own group message boxes in order to communicate privately with each other. Each massage has a timestamp and content, and a chat location where it belongs to. Newest message shows first.

- timestamp
- content
- id_of_MessageBox

10. **Task**

It is an appointment on the schedule. It is an action that a user is required to perform.

- timestamp_start
- timestamp_end
- content

11. **FeedItem**

This is an item under the feed. It is either a post or a request.

- content
- timestamp
- view_count
- tag

12. **Academic Feed**

This is entity under the Feed. It defines the feed as academic meaning it will only show academic related feedItems.

- Alist_of_feedItems

13. **Service Feed**

This is an entity under the feed. It defines the feed as a service feed meaning it will only show service related feedItems.

- list_of_feedItems

14. **Class**

This is an entity with attributes of the different courses that one can find help for.

- Course_id
- course_title

15. **ServiceTag**

This is an entity that list the different types of services i.e. home improvement, landscape, babysitting, etc.

- type_of_service