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Requirements In Class Activity

1. Mechanism for Requirements Elicitation

We would use a survey for a requirements elicitation technique to obtain an idea of what kinds of features we should add such as a Google Doc asking users to answer questions about their requirements or a Google Form.

Survey Questions

1. How should you interact with other users in the app?

JJ: I would like the ability to see profiles from other people so I can send them messages or sort by only their posts, I would like the ability to see some sort of community posts (like only HCI researchers posts – FB group or subreddit kinda thing). Posting comments would also be nice

MKM: I would like to be able to message other users privately if I find their work interesting, but also be able to comment on posts publicly. It would be nice to be able to like and respond to other people's comments below posts to start larger discourse. Being able to repost another user's content would also be helpful

EA: I would like to be able to like and comment on public posts but also have a system of friends/followers where I can see private posts as well.

2. How many users would you expect to use the system concurrently?

EA: Not sure, thousands?

MKM: I would expect a large amount of users to be able to use the system concurrently, one users use of the app should not slow dorn or affect another users use of it.

JJ: I feel like most researchers would have an account, but i don't know how many will be active at one time. Be able to support a large flow of people, especially after conferences where people might want to post their top 5.

3. How many papers would you want to share on the app?

EA: 5 per field and I'd guess the average person could be part of 3-5 fields.

JJ: I would probably start with 1-2 communities of 5 papers. I would then probably make posts about interesting papers I had found later

MKM: I would want to be able to enter a Top 5 for every category, but also have an option to update my top 5 in each category and view my updates [you can see the progression of my top 5]

4. What kind of interactions would you want to have upon viewing a post?

EA: The ability to like, comment, and reshare a post.

JJ: posting, liking, commenting, resharing, and sorting by community

MKM: I would want to be able to react to a post, like a post, comment on a post, and reshare a post. I would also want the option to report posts if I think they are inappropriate or inaccurate. There should also be a way to view papers easily from the post, all posts should link to and have citations for the papers they are ranking.

5. Would you want to message other users in the app?

EA: Probably not, I prefer public commenting.

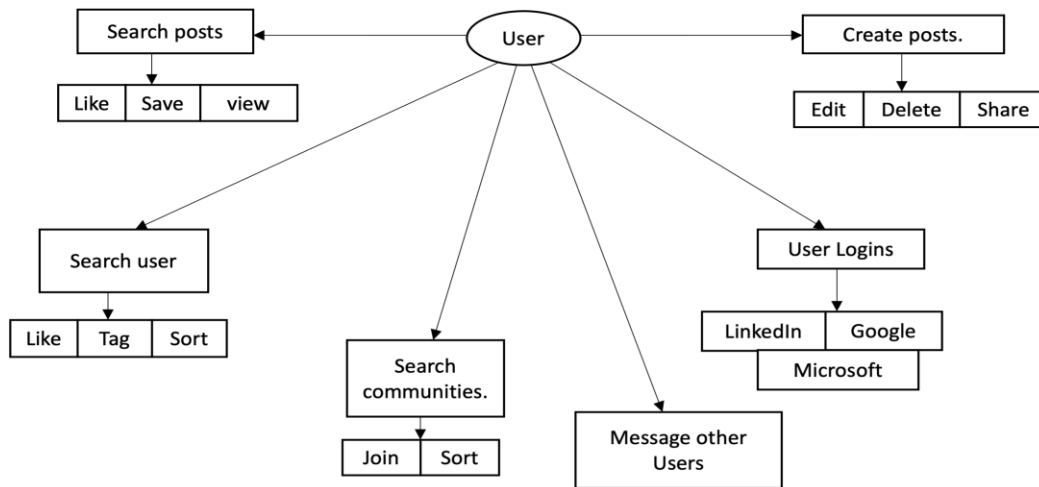**JJ:** Yes, I think being able to ask questions about papers or conferences would be a good idea

MKM: Yes, I would want to be able to message users but would also want to be able to approve message requests from people I am not friends with so that strangers cannot easily message you.

2. Features Based on Results from Survey Responses

1. Be able to handle at least 1000 users on the website at once
2. Users can receive post feedback (likes, share posts, save posts)
3. Users can log in through their Google/Microsoft/LinkedIn accounts
4. Users can follow other researchers on the website to see their posts
5. By default, users' posts will be private to their network
6. Users can search for other users' profiles
7. Users can search for papers using the app using keywords / topics
8. Users can view trending posts
9. Users can search for other communities
10. Users can message other users
11. Users can sort the posts in their community
12. Users can join different communities
13. Users can comment, share, save, report, or like posts

3. Use case diagram/ Requirements diagram:

Use case diagram for TopFive App.

4. User Stories

1. John, a graduate researcher at Virginia Tech is trying to find related papers to his study, so he uses TopFive to search for papers based on keywords and topics and John can find researchers who posted publicly of such papers.
2. Jane, a professor at University of Virginia found 2 research papers that she found groundbreaking related to nutrition. She makes a public post of these 2 papers and quickly receives over 1000 comments about her post and is subsequently trending.
3. Alex is an up-and-coming researcher. So far, he has published 3 papers and is a part of the quantum computing community. To gain traction in his research and facilitate collaboration opportunities with other researchers, Alex posts his research articles on TopFive and soon, commenters message him through TopFive for future collaborations.
4. Rayhan, a fourth year PhD student, found an interesting post on TopFive related to this research, and he reshared to show his interest in that particular post.
5. Francis, a machine learning enthusiast, wants to be updated with the newest trends in machine learning and emerging research. Everday, he checks out the machine learning community in TopFive to view abstracts of research articles published by researchers and industry professionals. He, then, messages these professionals to learn more about their research and how they use certain machine learning techniques.