Software Engineering

Educational Networking Tool
Group 8
EdNet

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1. **Problem Statement**
Educational Networking Tool for College Students
The objective of our project is to provide a platform for students across the globe to interact with others with similar interests. The students from different colleges can take part in discussion, problem solving. It will be a tool where students can network among themselves and with professors from different universities. We wish to provide a one-go platform for academicians to learn and grow. The students can post their doubts on discussion forums and get them solved by the community. The professors can find passionate collaborates easily by posting their project openings on the project forum. This forum is great for students who are interested in exploring research options.

2. **Functional requirements**
1.1. Students
● A student user can log in to the portal by making a profile on the website.
● A student user can choose their areas of interest, which can be modified by the user whenever required.
● The user can post a question in the discussion forum of a particular topic and can reply to other threads.
● A student user can go on the project page and explore different opportunities in their area of interest. They can sign up for a project/research posted on the page.
● A student user can upvote/like an answer to a thread.
● A student user can view other profiles and can get access to information(like email id, contact) mentioned on the profile.
● A student user can sign up for an email push notification for a particular discussion forum to stay updated.

1.2. Professors
● Professor can log in to the portal by making a professor profile.
● Professors can create a thread for particular fields.
● Professors can answer students' questions in the discussion forum.
● A professors' thread will be shown differently from other users i.e students in order to distinguish faculty/professor from students
● A professor has the rights to post projects/research opportunities on the project forum.

1.3. Admin
● Admin can remove/ban any user (student/professor) for any kind of misbehaviour.
● Admin can edit/delete chats in the discussion forum
● Admin can approve student/professor accounts so that no fake account can be created.

3. **Non-Functional requirements**

● The website should be compatible with any browser such as Google

Chrome, Mozilla Firefox, Internet Explorer, Safari etc.

● The website should return the search result entered by the user in less than 5 seconds.

● The user will have to login again every 24 hrs if he/she is not active.

● The forums will be updated automatically as a new thread is posted.

● If the user forgets his/her password. Then there will be an option for "forgot password" which will take the user to a window for the further process to retain their account back.

5. User Stories(Prioritized according to MoSCoW method)

Note:

- We have assigned alphabets to the user stories based on the following sequence.

    Must have - 'M'

    Should have - 'S'

    Could have - 'C'

    Would have - 'W'

- The term 'user' is commonly used for student/professor in section 5.1.

5.1 User

1. **M -** As a user, I should be able to make a new profile on EdNet.
2. **M** - As a user, I should be able to log in to EdNet.
3. **M** - As a user, I should be able to request account recovery (for setting up a new password).
4. **M -** As a user, I should be able to access the discussion forum and project forum as well.
5. **M** - As a user, I should be able to post my questions or blogs in the discussion forum.
6. **M** - As a user, I should be able to answer any of the questions from the discussion forum.
7. **S** - As a user, I should be able to update my profile whenever I want.
8. **S** - As a user, I should be able to choose the topics which are of my interest.
9. **S** - As a user, I should be able to upvote/downvote comments on any of the questions posted in the discussion forum.
10. **S** - As a user, I should have the option to get notified through email if anything is posted under the topics chosen by me.
11. **C -** As a user, I should be able to view other user's profiles and get access to information such as e-mail id or phone number.
12. **W** - As a user, I should be able to edit the questions posted by me at any time.
13. **W** - As a user, I should be able to chat with other users.
14. **W** - As a user, I should be able to mark a question as duplicate.
15. **W** - As a user, I should be able to report if a question posted under a given topic is of some other topic.
16. **W** - As a user, I should be able to report any user if he/she uses foul language or is found to harass any other user.
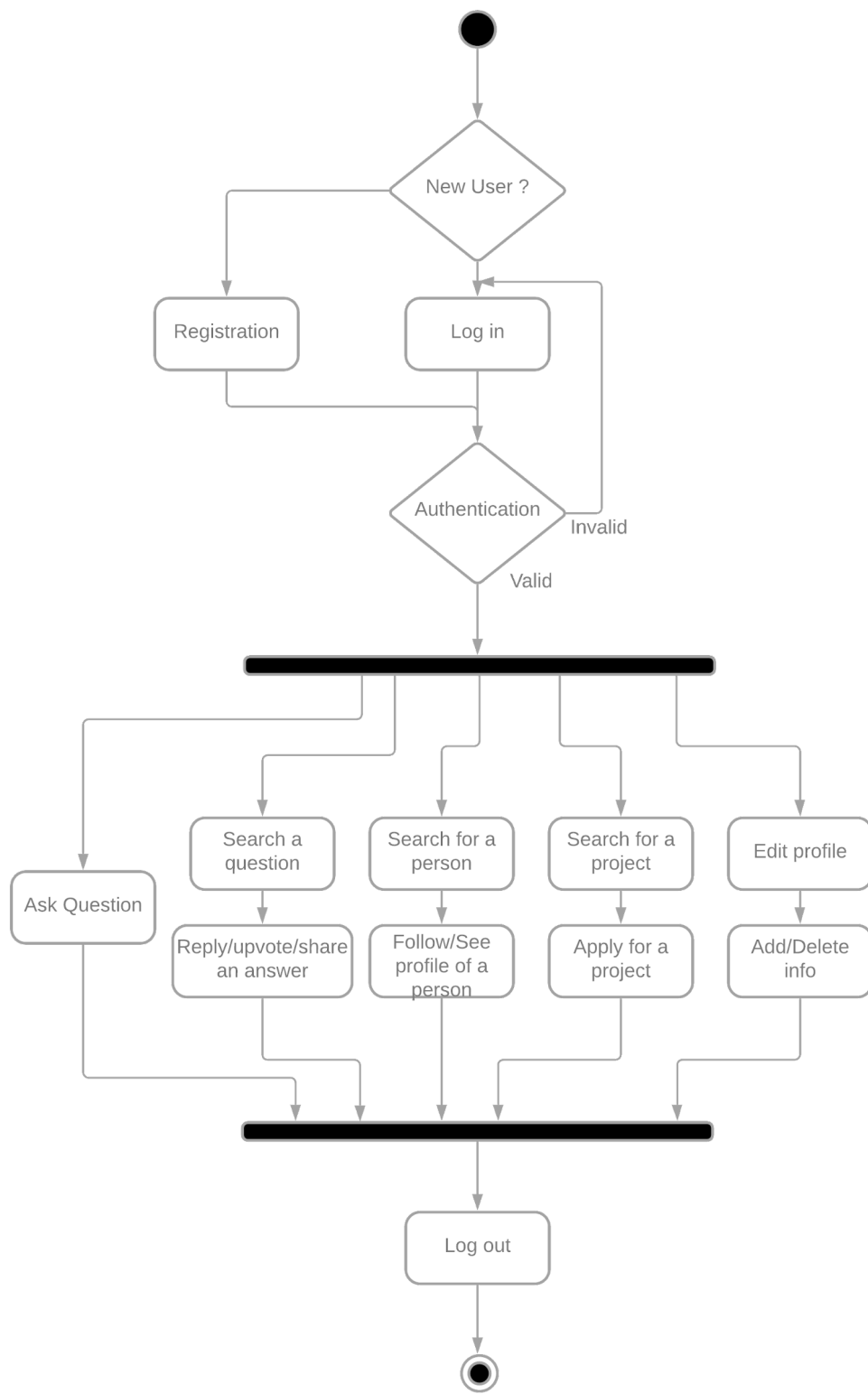
5.2 Professor

17. **M** - As a professor, I must be able to post project topics in the project forum.
18. **S** - As a professor, my profile should be different from the student's profile.
19. **C** - As a professor, my upvotes/downvotes and my answers should be distinguishable from other users.

5.3 Admin

20. **M** - As an administrator, I should get access to add topics.
21. **M** - As an administrator, I should recover the accounts of any of the user, in case they have forgotten their passwords.
22. **S** - As an administrator, I should get access to the database of all users.

6. Activity Diagram

Requirement Elicitation

1.   Interviews

Interviews were conducted with some professors and students over the phone and a set of both open-ended and closed questions were asked. A summary of the same is given below:

Interview-1: Professors

Question. Are you currently using any kind of Educational Networking tool?
Answer. No

Question. Do you feel a need for an app or a website of such kind?
Answer. Yes

Question. For what purpose, basically, are you looking for such an app?
Answer1. We are looking for a tool where we can engage in a healthy discussion with students over the globe, in our field of interest. And where we can share our ideas upon ongoing research or something like that.
Answer2. For working on a project, we need some student volunteers who will assist us in various tasks. So a tool where we can recruit the interested students.

Question. Have you been using Quora?
Answer. Yes, maybe.

Question. On what level are you satisfied with it?
Answer. With Quora, you can indulge in discussions at an individual level. What we are looking for is kind of a group dedicated specifically to a particular research field or something like that.

Question. Would you like to lead a community or a group if an option is given?
Answer. Of course, I would like to form my kind of community where I can add people related to a particular field of study.

Interview-2: Students

Question. Are you currently using any kind of Educational Networking tool?
Answer. No

Question. Do you feel a need for an app or a website of such kind?
Answer. Yes

Question. For what purpose, basically, are you looking for such an app?
Answer. We get many doubts and queries related to ongoing research or on general topics, on a daily basis. So, a forum or an educational-networking website where we can find professors who can answer our doubts would be great. Apart from that, like we have Linkedin where we can find a suitable job for ourselves, a tool where we can choose to work on live projects is the need.

Question. Would you like to have personalized content on such an app or are you open to all sorts of discussions?
Answer. A personalized content based on my areas of interests would be great.