

IT314 - Software Engineering

Lab 2 - Course Project Kickoff

Educational Networking Tool for College Students

Group - 29

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1. Why Another Platform (Need):

1. Professors are challenged to reach out to college students through old classroom methods. Nowadays, google classroom-type facilities are available, but it's more formal. Students are not able to connect with professors personally.
2. Technological evaluation happens nowadays; students are constantly using social media apps to connect with people and we can use this kind of app to connect Professors with Students. Students can't use available social media apps to connect with their professors because students want to keep their social roles and their student roles separate.
3. To bridge the gap between students and their teachers by providing a platform where they can communicate, connect with each other, share their experiences and collaborate effectively.

- **Peer connections:**

Peer connections may be helpful for college students in terms of networking, support, and cooperation. Students may interact with one another, share ideas, and collaborate on projects using educational networking technologies.

- **Access to course materials:**

To provide students with access to a wealth of educational resources, including lecture notes, and study materials that can help them better understand and retain information. Apart from that it will also support students in their overall well-being by providing access to resources and information on topics such as mental health, stress management, and healthy lifestyle habits.

- **Better interaction with teachers:**

Students in college frequently have questions and concerns about their curriculum, and educational networking platforms offer a convenient forum for interaction with

teachers. That will help colleges and universities better engage with students by providing a platform where they can share important information, resources, and updates.

- **Career development:**

Students in college are getting ready for their future professions, and educational networking tools can provide them with the chance to network with experts in their field of study, as well as with alumni and other possible employers.

2. Feature

Register

Login

Search

Add a post

Delete post

Upvote/Downvote facility

Follow user

Update profile information

Post commenting

3. Functional Requirements:

1. Login/Sign up:

This is the process of creating an account or logging into an existing account on the platform. Users can create a new account by providing their personal information and creating a unique username and password.

2. User profile:

Each user on the platform will have a profile that will showcase their activity, content, and other information. This allows other users to get to know the user better and see the content they have posted..

3. Post Content:

This feature allows users to share information, thoughts, opinions, or any other type of content on the platform. The content can be in the form of text, images or any other multimedia format.

4. Search content for a specific topic:

This feature enables users to search for content that is relevant to a particular topic or keyword. The search results will display content that matches the keyword or topic specified by the user.

5. Upvote any content:

This feature allows users to express their approval of a particular piece of content by giving it an upvote. An upvote indicates that the user finds the content valuable and informative.

6. Downvote any content:

This feature allows users to express their disapproval of a particular piece of content by giving it a downvote. A downvote indicates that the user finds the content irrelevant or unhelpful.

7. Follow any user:

This feature enables users to follow other users on the platform. By following another user, a user can stay updated with their content and activities. The user who is being followed is notified.

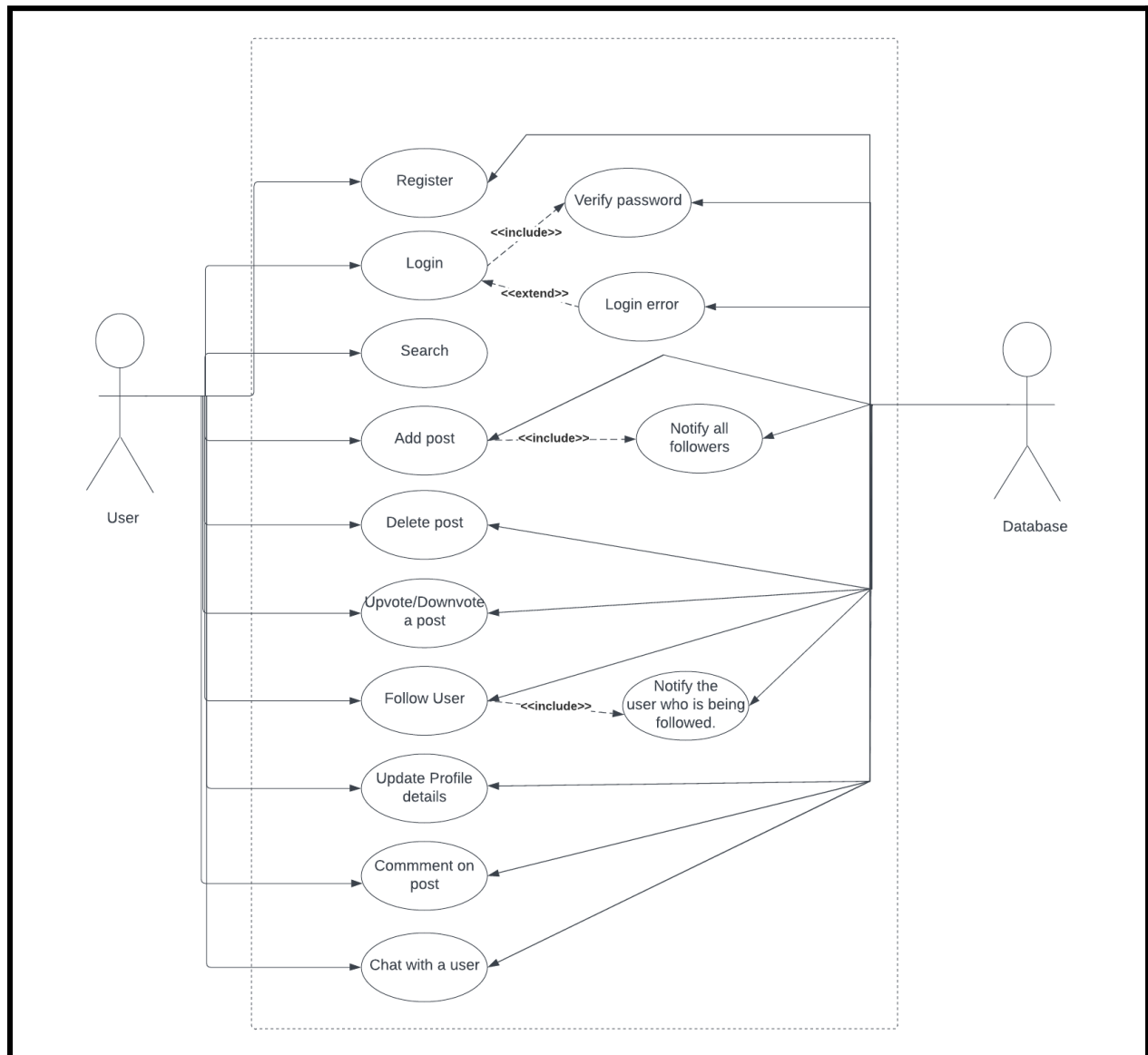
8. Personalized Notification:

This feature is there to inform users about new content from the users they follow, as well as any comments or activity related to their own content. This keeps users updated and engaged with the platform.

4. Non-Functional Requirements:

1. Security: The tool should not leak private details of users.
2. User-friendly interface: The interface should be intuitive, easy to navigate, and accessible to all users.
3. Scalability: The tool should be able to accommodate a large number of users and handle increasing amounts of data.
4. Performance: The platform should have fast load times and responsive navigation to ensure a seamless user experience.
5. Compatibility: The tool should be compatible with a range of devices and operating systems.
6. Maintenance: The tool should have a comprehensive maintenance plan to ensure it remains up-to-date and functional.

5. Use Case Model:



6. Software Process Model: Incremental Model

The Educational Networking Tool for College aims to create a platform where students, faculty members, and universities can come together to learn, teach, connect, and collaborate. In light of this, the Incremental Model is the most suitable approach for any organization working on this project. The following justifications support this conclusion:

1. **Well-Defined Requirements:** The Incremental Model is ideal due to the clear and concise nature of the fundamental requirements at the beginning.
2. **Early Market Entry:** As the requirements are well defined, the incremental model allows the team to fulfill the important functionalities in a shorter span of time.
3. **Flexibility:** Multiple modules can be implemented at the same time which provides flexibility to the software development team to prioritize their tasks.
4. **Efficient Response Time:** By creating new modules, errors and changes in requirements can be swiftly addressed without disrupting the flow of other modules.

In conclusion, given the aforementioned benefits and the fact that the team is small and less experienced, the Incremental Model would be the most suitable approach