SOFTWARE ENGINEERING

HOMEWROK # 1

Team Members:

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Project Title:

University Social Network (Web Application)

Requirements:

This web application would be required to exclusively allow only university students to register/login on it and be able to not only write their own blog post but also be able to see all other posts made by fellow university members of this platform and interact on these posts. It needs an admin dashboard where administration people will be regulating the content being posted on the website.

Question: Do you think you need mathematical verification of correctness of your system or a part of your system? Why?

Answer: No we don't need mathematical verification of correctness of our system as the system doesn't include any functional mathematical algorithms in it.

Question: Can you separate various concerns of your project from functional and quality perspectives? Highlight the concerns and describe how can you handle concerns separately?

Answer: Among many concerns, allowing only university students to register/login on the website is a major concern which can be tackled by taking registrations via university emails only. Allowing users to set the visibility criteria of their post is another concern which can be tackled by introducing a filter with every post with which only selected audiences will be able to view their posts. Regulating the content with is another concern which can be tackled through admin dashboard and their approval for the content being posted.

Question: Identify some functional modules in your system. Discuss coupling and cohesion aspects.

Answer: Basic functional modules being used in our application are Database Module, Login Module, Registration Module, Post Module, Admin Access Module, Like Module, Comment Module all these modules will be created keeping them loosely coupled with each other and cohesive within. All these modules will interact with each other acting as independent entities in the system.

Question: Identify the potential future changes in your system. Pick one potential change and discuss how would you address it in your system?

Answer: One potential future change in our application can be to introduce various university's society's presidents to register their societies account and be able to post upcoming events any announcements etc. For which we can have a separate child class of our regular user's class with some additional properties and special functionalities with it.

Question: Which increments would you suggest if you are asked to build your system incrementally?

Answer: I would suggest we start with a database of the system first and a simple registration/login module and then the post making module and then the like/comment module and an administration module to complete a basic working of the project.