

## Project Proposal

Project Title:     LinkHub

Group Members: Adhish Malhotra (100761306)  
Aiden Jolley-Ruhn (100745886)  
Hima Paul (100753261)  
Shreya Patel (100747036)

### Brief Scope/Plan:

The scope of this project is to develop a platform where engineers can communicate with each other, collaborate on projects in real time, and build a network. Contributors should be able to add/update files within a project and have the changes appear for any other users involved in the project. We aim to complete this project by leveraging the .NET CORE environment and developing a working data model which would highlight how different components of our application would interact with each other.

### Functional and Non-Functional Requirements:

<u>Functional Requirements</u>	<u>Non-Functional Requirements</u>
Focuses on user requirements.	Have 30 users register on the platform. Will the system be able to handle a large number of signups?
Users should be able to create an account.	Prohibits unauthorized access when login information is wrong.
Users should be able to login and save the password if they like to.	Users should have internet access.
The system should be addressed by different roles, for example, a regular user, an admin, a system maintainer who'd all have different permissions.	Users should be able to modify their profile without any conflicts.
A regular user should only be able to delete their own account and not anyone else's,	Client-server architecture style

whereas an admin or a system administrator would have permission to delete another user's account if it violates the norms of our company.	
Users will have different sections in their profile, for example, Regular information, work experience, projects, education, skills, awards, and on top of all that a user should also be able to add different posts under which they can share their projects or life achievements.	Easy deployment
One user can search for other users in the database using a search bar. The search might be performed through names, projects, etc.	Defines quality attributes of the system.
Each user would have a feed page which would showcase different posts that other users have posted.	Proper measures should be taken to eliminate all the bugs so that the user information is kept safe or to prevent information breach.
Each user should be able to react to another user's post.	System should not crash when multiple users are creating an account at the same time.
	System should not crash when multiple users are trying to update/modify their profile at the same time.
	There should be client-side data handling. For example if a client makes a mistake, the user inputted data should not be sent to the database for processing.
	Regular backups should be made in case the system crashes.