NORTH SOUTH UNIVERSITY
DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

PROJECT PROPOSAL

"SCHOLARMESH"

A modern networking platform for people interested in academic research

DATABASE SYSTEMS LAB
CSE311L
SECTION: 1
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Student Names	*IDs*	
Mostafa Mushsharat	1931298042	*Course Faculty*
Nadman Ashraf Khan	2012466642	Ahmed Fahmin
Tahmid Ashraf Khan	2012711642	*Lab Instructor*
		Nazmul Alam Dipto

PROJECT REPOSITORY: https://github.com/NadmanKhan/scholarmesh

Introduction

When writing their thesis papers, university students often struggle to find suitable group members and supervisors for their research. The orthodox way to do this is to email several professors, going through their profiles and papers on various websites and databases. Most students end up having as research partners their close friends, who might not be a suitable match for them. Also, they often struggle to get a professor to be their supervisor. This project draws its inspiration from aiming to solve such problems. Our website will provide a networking platform that will specialize in connecting people with academic research interests. Both students and professors can search and verify the backgrounds of each other to approach the people of their interests. Professionals can also use the website to find other researchers.

Objectives

- To streamline the process of finding research partners for students, professors, and professionals.

- Follow other researchers and academic papers on various topics to keep up to date with recent developments and publications.

- List conference dates for active researchers to be aware of a deadline and/or plan for submission to new ones.

- Connect peers and mentors sharing similar interests and expertise.

- Allow discussion through a chat-based messaging system.

Target Users

- *Students*: Students during their thesis research trying to find partners and supervisors for their paper.

- *Professors*: Professors and Faculties looking for research groups of students, working on their thesis, to supervise.

- *Professionals*: Researchers working on a certain project that require niche expertise unavailable to them at the moment.

Value Proposition

The website will reduce the bureaucracy while trying to connect to partners that share similar interests and compatible expertise for working on research. It will also help students and professors to connect faster through profile summaries of their areas of interest, expertise, and publications. In addition, professionals can also use the service to find and connect to researchers around the world that match their projects' interests. Further services like the chat-based messaging system and upcoming conference dates, will allow for better communication and awareness of opportunities even after their research. An updating timeline will pique the interest of users to contribute to others' projects and/or initiate their own.

Technologies To Use

- *Client-side languages and frameworks*
  HTML, CSS, JavaScript, TypeScript, Bootstrap

- *Server-side languages and frameworks*
  TypeScript, Express

- *Database management system*
  MySQL