



North South University

Department of Electrical & Computer Engineering

Project Proposal

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Project Name: Tuition Website

Course No: CSE 299 **Sec:** 3

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Introduction

Tutoring students is the most common job for students and young adults in Bangladesh. However, the process of finding tuition offers is difficult and can be troublesome for some. Along with that, finding a suitable tutor for your child takes time and background checks. Having a place where tuition offers and tutors are located together can make both of these jobs much easier.

The goal of this project is to create a web app where tutors have access to available tuition offers and parents get access to a plethora of tutors and a means to contact them.

Features

- Users can create an account and sign up using email.
- User profiles – users can update their profiles with their background information and experience.
- Tuition offers – users can post potential tuition offers with their criteria while other users can apply for the position.
- Notifications – notifications will be sent to users when someone interacts with their posts.
- Users will be able to see who applied for the position and get their contact details.
- Messaging – users will be able to message one another.

Technology

Frontend:

For the front-end I will use HTML, CSS, React, Redux and Material-UI. The web app will be compatible with both PC and mobile browsers. Redux will help with managing component states while Material-UI will ensure compatibility between platforms.

Backend:

For the backend of the web application, I will be using Express which is a minimalist backend web application framework for Node.js. I will use this to create a backend REST API.

Database:

For the database aspect of the project I will use Firebase, more specifically Cloud Firestore. This will allow us to have a real-time NoSql database and provide login authentication.

Monetization:

Tutors pay a membership fee when signing up of BDT 500. The payment will be taken through bKash. I will be using bKash as it is the most popular medium for online transactions.

Social Impacts:

This web application will aim to make finding suitable tutors for children easier. As many young adults and university students look towards tutoring jobs as a source of income, it can get hard to find many tutors that are appropriate for the offer. Alongside that, it can be difficult for a tutor to find available offerings just through word of mouth or social media. The application will aim in connecting these two parties to ensure the best experience for both.