

**North South University**

Department of Electrical & Computer Engineering

**Project Proposal**

**Group No**: 7

**Summer 2019**

**Project Name**: NSU ALUMNI PORTAL

**Course No**: CSE 299 **Sec:** 16

**Semester**: Summer

**Faculty**: Shaikh Shawon Arefin Shimon (Sas3)

**Member 1**:

**Name:** Mohammed Wasekur Rahman

**ID:** 1713032042

**Email:** [mohammed.rahman03@northsouth.edu](mailto:mohammed.rahman03@northsouth.edu)

**Member 2:**

**Name:** MD Hasan Ud-Doula

**ID:** 1620545042

**Email:** [ud.doula@northsouth.edu](mailto:ud.doula@northsouth.edu)

**Git Repository:** <https://github.com/WasekRahman/SU19CSE299S16G07NSU/>

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**INTRODUCTION**

We learn more about an academic institute by keeping track of their graduates. It is because of these graduates that such an institute grow in the first place. Unfortunately, North South University does not have a system to keep in touch with its graduates. As a result, we are losing track of the valuable and well respected alumni of North South University. To ensure that this does not happen, we have come up with NSU Alumni Portal.

Our mission is to connect all existing alumni no matter where they are in this world with internet connection. Each alumnus can create their own profile and keep it updated to date with their educational and professional information enabling access to various forms of networking. You can also search up any registered alumnus and contact them when necessary.

NSU Alumni Portal is a web application built with the latest technologies, promising North South University’s alumni to be associated with the community.

**FEATURES**

* Easy signup process using the student’s NSU email address
* An alumnus can also signup using their NSU ID or grade sheet – this will verified by the Admin Panel
* Customizable profile – an alumnus can update their profile photo, basic information and contact information
* Bulk SMS can be sent
* News section – latest news regarding NSU will be shown
* Connect – an alumnus can choose to stay connected with another alumnus to share personal information and get daily updates from one another
* Real- time chat
* Alumni can be searched using company names
* Auto suggestion assistant – this enables fast search results of companies
* Admin Panel – the admins will have full control over the whole system adding/updating company names and/or updating other information

**TECHNOLOGY**

We decided to go with latest technologies for developing this application in order to give users a better experience.

*Frontend*

For the front end we will be using HTML, CSS, JavaScript and React. This enables cross platform development which allows the web app to be compatible with both PC and mobile platforms. It also gives a more premium user interface and smoother experience.

*Backend*

Python’s web framework - Django will be used as the website’s backend. Django ensures rapid development providing high security and maintanence.

*Database*

We will be using MongoDB as the database. MongoDB uses JSON or BSON documents to store data and provides high performance, availability and automatic scaling.

*Payment method*

Python’s Stripe Library will be used for collecting payments. This API is designed with python and allows custom ways to take payments – Credit cards, Gift cards etc. We will be using this API to ensure that users can pay using their Visa Cards and MasterCards.

*Additional technologies*

Allauth for Django will be used to allow users to login using their Facebook and/or Google account.

We will integrate a real-time chatting system using Django – Channels within the website.

To keep up with the modern forms of technology we would be using additional technologies to ensure complete user satisfaction. GraphQL is a query language which will act as a bridge between the server-side and the client-side. It provides a faster and efficient way of pulling data from the database.

**Monetization**

As the web application is targeting the alumni & authority of North South University, we will try to get fund from the university.

Companies can also place ads on the NSU Alumni Portal for jobs charging 100 BDT per day. We will provide an advertisement package for such companies. As we are integrating the stripe library, making payments for any users will be easy and secured.