NORTH SOUTH UNIVERSITY

DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING

CSE299 Junior Design
Section: 5
Group: 7
Topic: Project ideas

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Submitted To: Meem Tasfia Zaman

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Topic: 1

Project Name: RE-SEARCH

Goal: RE-SEARCH is a search engine based web application that will help researchers to search within a specific field with more accurate data. It will be a time saving application as other search engines shows overwhelming amount of data.

Features:
- Signup, Login, and Social Login (Google)
- Adding group of website url links with certain depth
- Scraping and extracting data (non HTML, pdf, ppt, doc, docx, txt) from added url
- Storing and indexing data into ElasticSearch
- Provides faster search results
- Voice searching
- Exporting search results into pdf file.

Description:
Users will be able to sign up and log in into the system. They will be able to create cluster and add urls. The system will scrape all the data from that url to a certain depth and store in ElasticSearch server. It will provide faster search results with more accurate result.

Tools required:
- Programming Languages: Django (Python framework), HTML, CSS, and JavaScript
- Libraries: Textract (For extracting data), Django-allauth (For user authentication)
- Database: Sqlite3
- Api: Certain third party api based on requirement during development
- IDE: Visual Studio Code