

NORTH SOUTH UNIVERSITY

DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING



CSE299 Junior Design

Section: 5

Group: 7

Topic: Project ideas

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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

Topic: 2

Project Name: adMISSION

Goal: Currently there are no such websites or apps that provide all the university admission information under a single frame. adMISSION is a web application that will automatically scrape notices such as admission requirements, offered programs, and so on from all top universities of Bangladesh and show them to users according to preferences.

Features:

- Signup, Login, and Social Login (Google)
- Scraping and extracting data from university websites and process them
- Suggesting universities and programs based on user preferences and results
- Users can post queries regarding universities or programs

Description:

adMISSION is a web application that will extract top university notices in an interval of 7 days and updates information regarding admission, scholarships, programs, and so on. Then the system will process the extracted data and show them on the dashboard of registered users. Some other additional features are also available.

Tools required:

- Programming Languages: Django(Python framework), HTML, CSS, and JavaScript
- Database: Sqlite3
- Libraries: Django-allauth (For user authentication and social login)
- API: Certain third party api based on requirement during development
- IDE: Visual Studio Code

Topic: 3

Project Name: US

Goal: Families are the part of our life. There are so many social media applications that are more interested in making friendship with unknown rather than reuniting the family. The Family app will include a family calendar, a list taking app, a photo gallery, and a forum. Combined, these features will help organize families, saving time and a lot of arguments and make the connection stronger.

Features:

- Signup, Login, and Social Login (Google)
- Setting up member roles
- Family calendar
- Sharing special moments photos and videos in family gallery
- List taking during family occasions
- Chat and video call with other members

Description:

The web application will mainly focus on making and maintaining strong bond among the family members. It provides all the necessary features that will help the family members to organize the family occasions and daily activities in a simpler way. It's chatting and video calling ability helps to keep in touch with the members away from home.

Tools required:

- Programming Languages: Django(Python framework), HTML, CSS, and JavaScript
- Database: Sqlite3
- Libraries: Django-allauth (For user authentication and social login)
- API: Certain third party Api based on requirement during development
- IDE: Visual Studio Code