

# Lecture Notes Sharer

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This is final project of Intro to Database Design Class, where we learned introduction to SQL. For the final project we had to use any programming language and db to create a single application that executes some SQL commands. I decided to use Flask framework. However, as the main purpose was to use SQL commands I did not use SQLAlchemy to handle ORM. In addition, I used JavaScript to do input validation on user's side. Finally, I used MathJax to process LaTeX formulas in Lecture Notes.

The web application has landing page and notes page. After user has registered, he will be able to add lecture notes from his university. There is "All Notes" page, which displays all lecture notes uploaded by the users. In addition, every user can edit their profile, edit notes, and leave comments on notes. There is a "search by" functionality on the "All Notes" page.

## Live view

You can check the live version of the website [here](#). Please, create an issue or push request if it doesn't work.

## Requirements

Use the package manager [pip](#) to install all requirements.

```
pip install -r requirements.txt
```

## Usage

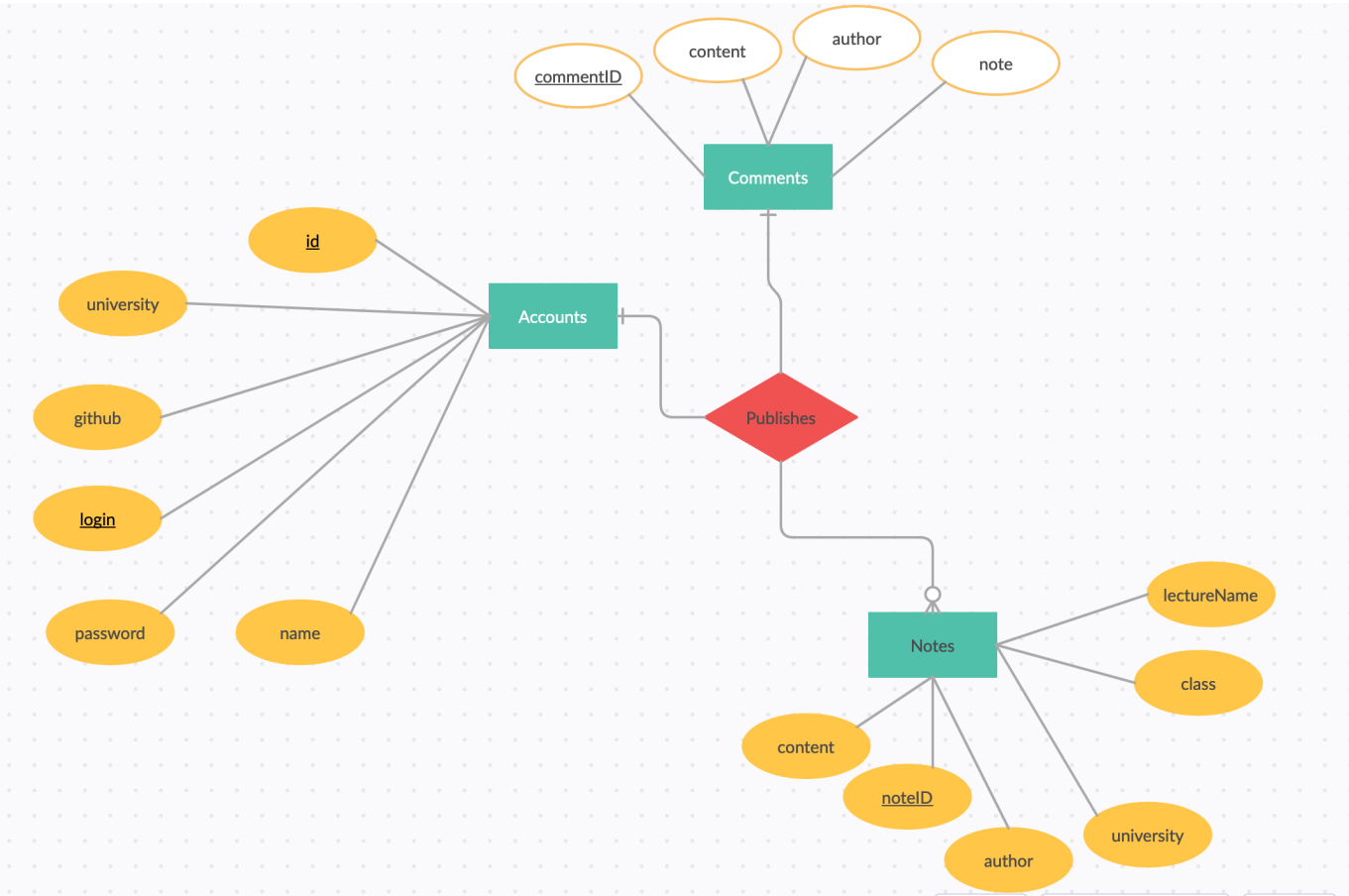
```
python app.py
```

## Sample data

There is an SQL folder, where you can find SQL queries to create sample data.

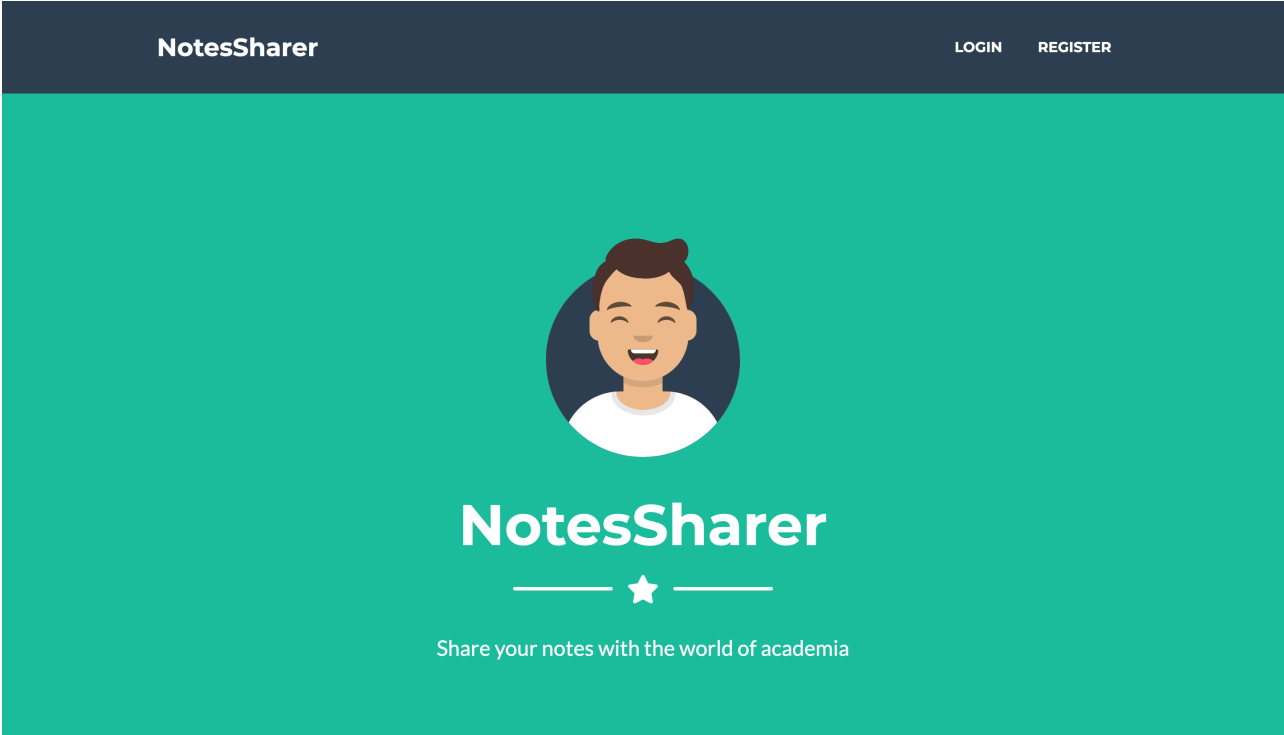
- [Accounts Sample Data SQL Queries](#)
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## ER Diagram



Screenshots

- Main page



- Users page

NoteSharer				
#	Login	Name	Link	
1	daniyar	Daniyar Aubekeroov	<a href="#">View</a>	
2	john	John Smith	<a href="#">View</a>	
3	george	George Hunting	<a href="#">View</a>	
4	madison	Madison Li	<a href="#">View</a>	
5	shlim	Shin Lim	<a href="#">View</a>	
6	ptalor	Pan Taylor	<a href="#">View</a>	
7	nur001	Nurbek Nursultan	<a href="#">View</a>	
8	lucy	Lucy Lee	<a href="#">View</a>	
9	william	Will I Am	<a href="#">View</a>	
10	pogba	Paul Pogba	<a href="#">View</a>	
11	aruzhan	Aruzhan	<a href="#">View</a>	

With ♥ from [Daniyar \(Dan\) Aubekeroov](#).

- User page

NoteSharer

daniyar

Edit account

Login: daniyar

Name: Daniyar Aubekeroov

Github: daniyardake

University: Suffolk University

Notes by user daniyar:

**Suffolk University:** Discrete Math

**Connected Graphs**  
A connected graph is graph that is connected in the sense of a topological space, i.e., there is a path from any point to any other point in the....  
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**Suffolk University:** Ethics and Civil Life

**Assignment 1**  
Write a paper in response to the question below. The paper is due in class on Thursday, 13February. Late papers will not be accepted (unless....  
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- Notes page

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All Lecture Notes

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Differential calculus

Differential calculus is the study of the definition, properties, and applications of the derivative of a function. The process of finding the....

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NumPy

NumPy is a Python library used for working with arrays. It also has functions for working in domain of linear algebra, fourier transform, and....

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MIT: Intro to Machine Learning

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- Note page

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Connected Graphs

[Edit](#)

Suffolk University:Discrete Math

Author: [daniyar](#)

A connected graph is graph that is connected in the sense of a topological space, i.e., there is a path from any point to any other point in the graph. A graph that is not connected is said to be disconnected. This definition means that the null graph and singleton graph are considered connected, while empty graphs on

$$n \geq 2$$

nodes are disconnected. The number of n-node connected unlabeled graphs for

$$n = 1, 2, \dots$$

are

$$1, 1, 2, 6, 21, 112, 853, 11117, 261080, \dots$$

(OEIS A001349). The total number of (not necessarily connected) unlabeled n-node graphs is given by the Euler transform of the preceding sequence,

$$1, 2, 4, 11, 34, 156, 1044, 12346, \dots$$

(OEIS A000088; Sloane and Plouffe 1995, p. 20). Furthermore, in general, if  $a_n$  is the number of unlabeled connected graphs on  $n$  nodes satisfying some property, then the Euler transform  $b_n$  is the total number of unlabeled graphs (connected or not) with the same property. This application of the Euler transform is called Riddells formula.

Add comment

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[george](#): How about Euler paths?

## Contributing

Pull requests are welcome. For major changes, please open an issue first to discuss what you would like to change. Please make sure to update tests as appropriate.

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