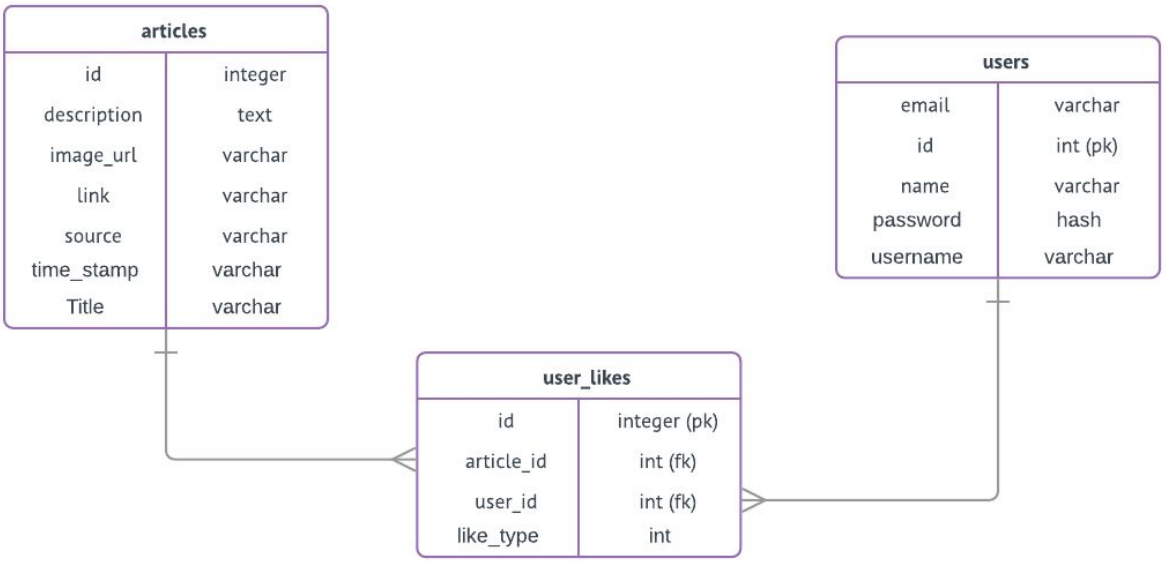
User Manual: Newsy

Modules:

1. Database Design: Includes the ER diagram, the structure of the database, the ddl commands to implement the physical database.
2. User Interface: This includes the design of various pages. The major pages include:
    a. Login/Sign up page
    b. Newsfeed
    c. Post Page
    d. Profile/Edit Details page
3. Scrapper: The script that crawls through the web pages and scraps the articles. The basic procedure is as follows, go to the newsfeed of the pages and extract the urls of each article, use that url to go to each article and scrap the data according to the html tags. The script would run in the background and each hour call the scrapping function. Later it will send a POST request to the php server to update the database
4. Login and Authentication: This modules deals with adding new users in the database and creating sessions.
5. Upvote-Downvote: This module deals with the AJAX requests and the upvote-downvote mechanism.
6. Feed: This module deals with the main feed of the website. The feed should show all articles and once the user clicks on an article, the entire article should be shown in a separate page. The other submodules include:
    a. Pagination: Since the number of posts in the database can be huge, it is important to display only few per page, this would help in readability as well as loading of the webpage.
    b. Filters: This module deals with in which order the posts should be shown in the newsfeed.



ER Diagram

Requirements

1. PHP
2. Browser (should run javascript)
3. Apache Server
4. Python:
    a. newspaper3k
    b. pymysql
    c. unicodedata
    d. BeautifulSoup

How to run

Run the python script in the background, the script is “addData.py”. This script should always be running in the background as it updates the database every hour.
Run the php files on the local server.

The main page is index.php, the newsfeed is on news.php.

Create a mysql database named “newsy” with the structure given in the ER Diagram, edit your configuration in config.php.

Contribution

1. Database Design: All
2. User Interface: All, major part Anuraksha
3. Scrapper: Karan
4. Login and Authentication: Girish
5. Upvote-Downvote: Chirag
6. Feed:
    a. Pagination: Chirag
    b. Filters: Chirag, Karan
    c. Article having their own page: Girish