

Software Systems Lab
CSP203
Software Development Marathon Design Document
Newsy

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1 Introduction

1.1 Objective

1.1.1 Goal

To create a web application which shows a user a news feed of recent global news.

1.1.2 Motivation

This application will act as a hub of news. It will display the news happenings in a shorter, condensed tiles allowing the user to get the short news instantly.

1.2 Features

- Unique user login and authentication.
- Scrape the news website every hour.
- Ability for the user to upvote/downvote a particular news tile
- Overall sort a users feed by recent news or by upvotes

2 Functional Description

We have divided the whole software into 4 modules which are inherently independent, as in all of their functionalities do not depend on any of the other. But the software as a whole requires all 4 of them together to provide the user functions. These modules are:-

1. User accounts and authorization
2. Scraping the news website for news
3. Database
4. User Interface with upvote/downvote feature

2.1 User accounts

Each user will have an authentication-based account with unique username and password.

2.2 Scraping the website

A web scraper will scrape a news website every hour obtaining its current news, their short description and the timestamp and storing them in a database

2.3 Database

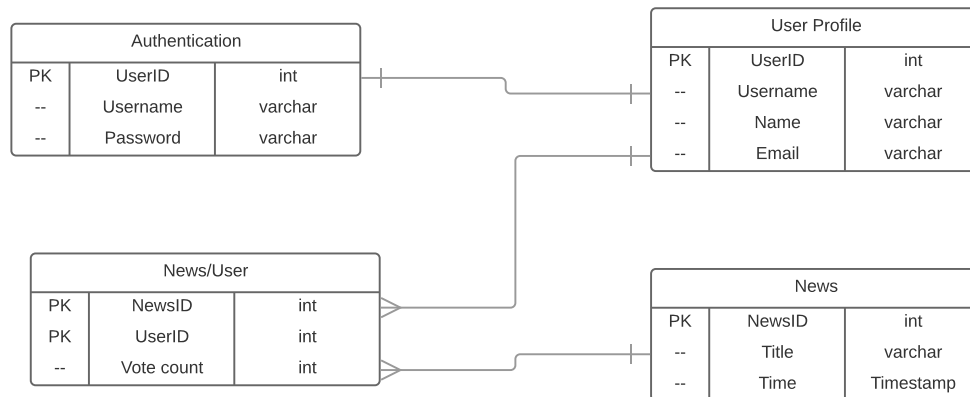
A database will store the user account information, the news information and the upvote/downvote count.

2.4 UI

The UI will display the user his info and the main news feed. It will allow the ability to upvote or downvote a news tile and the ability to sort the news feed by recent or vote count.

3 Database Design

DATABASE SCHEMA



PK- Primary Key
FK- Foreign Key

4 Members Role

4.1 Abhishek Goyal

Handling the UI interface

4.2 Sahil Gupta

Creating the scraper to scrape the news website for the news tiles

4.3 Abhishek Singh

Handling the database creation and management. The database queries to procure info from it.

4.4 Abhishek Dawas

Handling the user account authentication and login.