

Software Systems Lab  
CSP203  
User Manual  
Newsy

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# Contents

<b>1</b>	<b>Introduction</b>	<b>3</b>
1.1	Objective . . . . .	3
1.1.1	Goal . . . . .	3
1.1.2	Motivation . . . . .	3
1.2	Features . . . . .	3
<b>2</b>	<b>Functional Description</b>	<b>3</b>
2.1	User accounts . . . . .	3
2.2	Scraping the website . . . . .	4
2.3	Database . . . . .	4
2.4	UI . . . . .	4
<b>3</b>	<b>Running Instructions</b>	<b>4</b>
<b>4</b>	<b>Database Design</b>	<b>5</b>
<b>5</b>	<b>Members Role</b>	<b>5</b>
5.1	Abhishek Goyal . . . . .	5
5.2	Sahil Gupta . . . . .	5
5.3	Abhishek Singh . . . . .	6
5.4	Abhishek Dawas . . . . .	6

# **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**

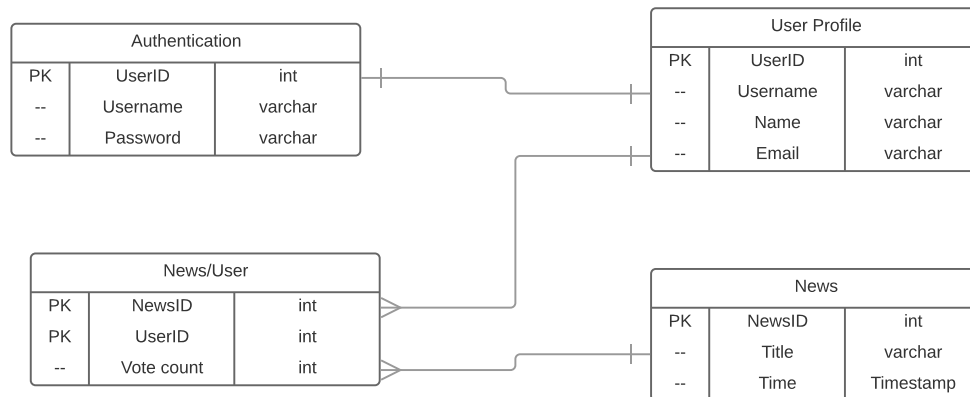
The UI will display the user his info and the main news feed. It will allow the ability to upvote or downvote a news tile and the ability to sort the news feed by recent or vote count.

# **3 Running Instructions**

Provided in the supplementary readme.txt file

## 4 Database Design

# DATABASE SCHEMA



PK- Primary Key  
FK- Foreign Key

## 5 Members Role

### 5.1 Abhishek Goyal

Handling the UI interface

### 5.2 Sahil Gupta

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

### **5.3 Abhishek Singh**

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

### **5.4 Abhishek Dawas**

Handling the user account authentication and login.