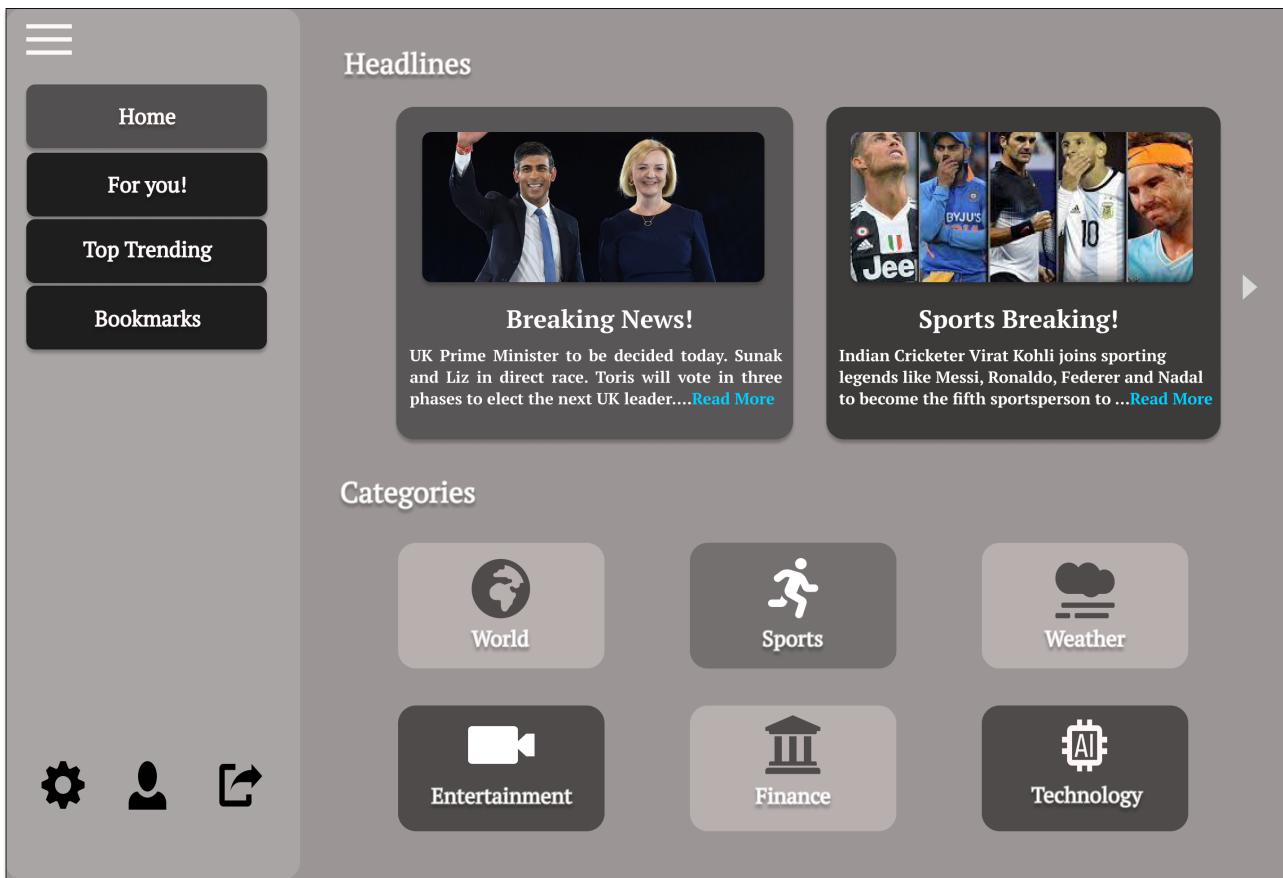


# News Aggregator and Summarizer

## Section 1: Needs Finding

**Problem Domain:** News and media aggregation

**Background and Motivation:** There is a multitude of websites spread out around the internet that may make the most recent news easily accessible to you. The problem with them, however, is that they are produced by a variety of news agencies, each of which focuses on reporting on a certain subject (for example: ESPN in sports).



The user would be relieved of the hassle if there was a platform that could integrate the news from various sources and offer it to them, so that they wouldn't have to go to numerous platforms if they have multiple fields of interest.

**Stakeholders:** User consuming the news and Admin who can edit/remove the articles in case of misinformation

**User Research Methods and Procedures:** Conducted interviews with potential end users of the application. Users were from diverse backgrounds in terms of age group, profession, gender and ethnicity.

## **Participants:**

Students - 2 Male, 1 Female

Working Professionals - 2 Male, 1 Female

Retired: 1 Male

**Key Findings:** Due to the limited amount of time available, both students and working professionals would find it reasonable to have a single-stop solution that they can use once each morning to read news from a variety of categories. This solution would be beneficial to them because it would save them time. They also suggested that a concise summary of the most recent news based on alerts set by them through notifications could help them stay up to date.

**Problem Statement:** The goal of this project is to develop an application that can gather the most recent news from the various APIs offered by various news agencies, summarize it, and present it to readers in such a way that they can get the gist of the news and remain up to date with recent events that have occurred around them and in the fields that interest them, respectively.

## **Key features:**

- Ability to read articles from a specific category
- Ability to save articles
- Ability to set alerts on for specific categories
- Summarized news articles sent to users via notifications

## Section 2: Website

Project URL: <http://127.0.0.1:{port}/>

To run the project:

1. Unzip the folder content
2. Activate virtual environment using pipenv
3. Install requirements using pip install -r requirements.txt
4. Run migrations using python manage.py migrate
5. Run server: python manage.py runserver {port}
6. Go to the URL (ensure to add port number to the URL if added in step 5)

Admin username: anuj

Admin password: newsaggregator

To access admin panel, go to <http://127.0.0.1:{port}/admin>

### Website Design:

1. Home Page: The user can access the top breaking news of the day through headlines section. They can also go to category of their choice to see the latest developments in them. Through the sidebar, they can access their favorite news articles as well as check top trending news around them.

The screenshot shows the homepage of a news aggregator application. On the left, a vertical sidebar contains buttons for 'Home', 'For You!', 'Top Trending', and 'Bookmarks'. The main content area features a 'Headlines' section with three cards. The first card, titled 'Sports Breaking!', shows a collage of sports images and a snippet about Virat Kohli. The second card, titled 'International Breaking!', shows a photo of Rishi Sunak and Liz Truss and a snippet about Britain's economy. The third card, titled 'Technology Breaking!', shows a photo of an iPhone and a snippet about device impacts. Below this is a 'Categories' section with three icons: 'International' (globe), 'Sports' (runner), and 'Weather' (sun and cloud). At the bottom left are three small circular icons: a gear, a person, and a refresh symbol.

2. News Article: This page shows full news article if a user wants to get to the depth of an article. User can scroll down to see the whole article and to go back, they can click on the sidebar menu button.

☰

## Sunak or Liz? UK Parliament to decide today!

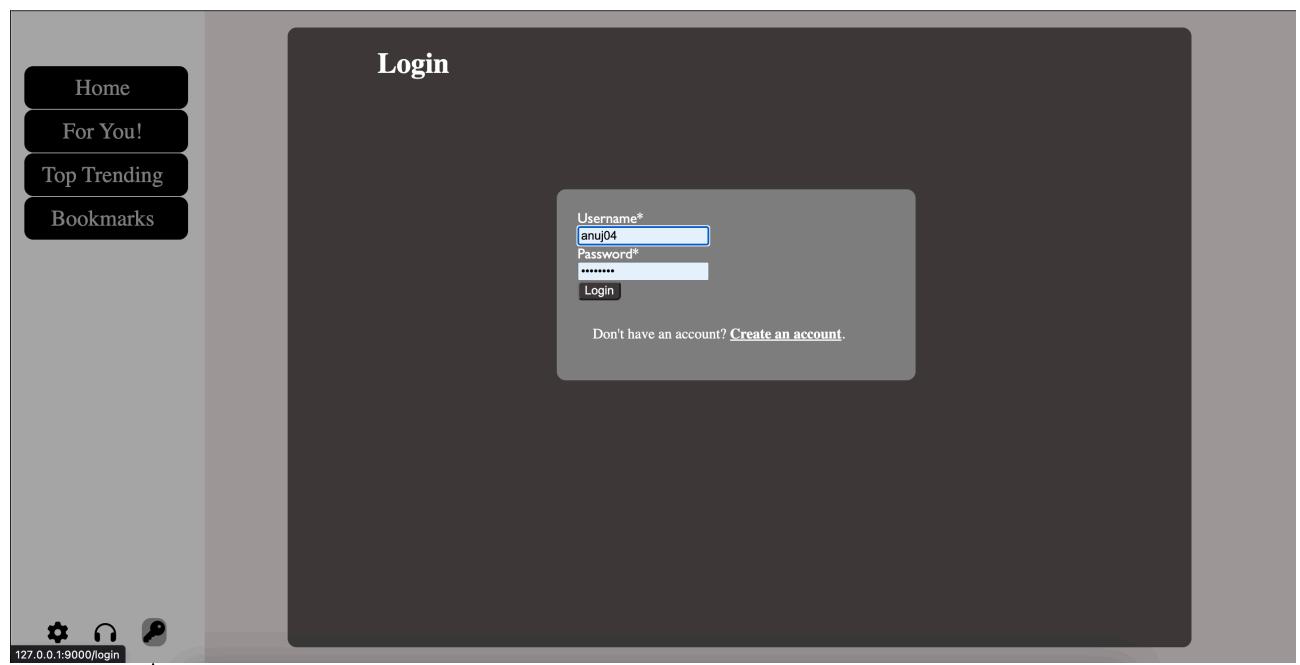


UK Prime Minister to be decided today. Sunak and Liz in direct race. Tories will vote in three phases to elect the next UK leader who will succeed Boris Johnson. Early exit polls predict a win for Liz Truss but Sunak is not far behind and is expected to give a tough competition till the last round of voting.

⌄

3. In case, user liked an article and wanted to save it as a bookmark for user reference, or wanted to access older articles they had bookmarked, they would need to sign in/up.

### Login:



Click here for Login Page

## Register:

Home

For You!

Top Trending

Bookmarks

⚙️ 🔍 🗝️

## Register

Username\*

Required. 150 characters or fewer. Letters, digits and @/\_/-/\_ only.

Email\*

Password\*

- Your password can't be too similar to your other personal information.
- Your password must contain at least 8 characters.
- Your password can't be a commonly used password.
- Your password can't be entirely numeric.

Password confirmation\*

Enter the same password as before, for verification.

Register

If you already have an account, [login](#) instead.

4. Through this page, a user can check their previously bookmarked articles.

Home

For You!

Top Trending

Bookmarks

⚙️ 🔍 🗝️

### Your favorite Articles...



**International Breaking!**

In his first address as prime minister, Rishi Sunak listed Britain's economy as his number one priority as he takes up ...

[Read More](#)



**Technology Breaking!**

Few devices released in recent history have had as much of an impact on daily life as the iPhone. And even though there ...

[Read More](#)

5. Through this page, a user can access the top trending news around their region.

- Home
- For You!
- Top Trending
- Bookmarks



**Top Trending!**



**Technology Breaking!**  
Few devices released in recent history have had as much of an impact on daily life as the iPhone. And even though there ...  
[Read More](#)

**International Breaking!**  
In his first address as prime minister, Rishi Sunak listed Britain's economy as his number one priority as he takes up t...  
[Read More](#)

**Sports Breaking!**  
Virat Kohli is the only cricketer in the list of top 10 most marketable athletes in the world. As per Hopperhq, Kohli c...  
[Read More](#)



