

Web-Intelligence WS 25/26

Name: Irmak Damla Özdemir **Matrikel-Nr.:** 5123127

Wählen Sie einen Anwendungsfall aus, den Sie während des Moduls bearbeiten möchten. Beschreiben Sie kurz den Anwendungsfall mit seinen Stakeholdern sowie mit deren Zielen.

Trending Health News

In this module, I would like to work on a web-based analytical system, which focuses on analyzing health-related news from several online sources. The goal of this system is understanding which health topics are currently most discussed in the media.

Use Cases

Collecting Health News Data

The system connects to multiple online health news sources and collects latest articles in a standardized form.

Analyzing and identifying trends

The system checks for missing or invalid fields, until the dataset is clean and ready for analysis. The processed data is stored as a CSV file for further analysis and visualization. Then the system identifies frequently mentioned health topics through keyword frequency analysis and topic grouping.

Viewing trend reports

The user accesses summarized reports that show the current most popular health topics and views visualization for each source. The system presents this information through clear visualizations and charts.

Monitoring system execution

The admin runs and supervises the data collection process, ensuring that the system updates regularly and operates correctly.

Stakeholders

- An end user uses the system to view the current health trends.
- A data analyst analyses the collected data from the system.
- A journalist uses trends for reports or articles
- A health institution uses trend analysis results for awareness strategies.
- A pharmacy owner uses trend data for inventory decisions and organize product campaigns due to the current health issues.
- A source website provides the raw data for analysis.