

# News Feed

## Idea

Dashboard collecting news articles about several different sources, and processing it exploiting a natural language processing ML module.

## Technical Architecture

- Front-end: login + landing page + user profile page
- NoSQL Persistence Layer.
- API Layer: hosting RESTful Web server.
- Fetcher: retrieving RSS feed articles. Interacting inter-application using RPC.
- Analysis: Natural Language Processing component to summarize articles content. Interacting inter-application using RPC.
- Authentication with OAuth2 (e.g. Google sign-in).

## System's Objectives

- Fetch news from RSS feeds on demand.
- Present news landing page.
- Process articles content on-the-fly exploiting Analysis module.
- Manage authentication of users.
- Present profile page user-dedicated.

## Potential Users and Main Use Cases

**Potential User:** teenager interested in remaining informed about some topics, but who has not the patience for reading entire articles.

**Potential User:** medium-age person who wants to have an overview of different sources of news for having a preattentive comparison of them.

**Use Case:** user subscribes to the system.

**Use Case:** user logins to the system.

**Use Case:** user explores the landing page for reading the news presented.

**Use Case:** user triggers the analysis module to have visualized the summaries of the news on the landing page.

**Use Case:** user navigates to its profile page for consulting its personal information.

**Use Case:** user logouts.

**Use Case:** user requires the elimination of its account and of all the information connected to it.