



Local Newspaper CMS – Demo

Objective

You are tasked with building a demo Content Management System (CMS) for one of our clients. This system will allow editors to manage articles by performing basic CRUD operations (Create, Read, Update, Delete) while also supporting search and publishing controls.

Requirements

List all the articles. Articles are not consumed by any api or stored on a database, they must be created in a constant file and listed in the index view [Articles screen](#)

Users should be able to perform basic CRUD operations on articles.

Users should have the ability to search for an article based on the headline, using the search input field.

Filter articles using the selector with the text “Published/Unpublished” and from the “published” field of articles. View [Filters screen](#)

When you click on the switch in the “Published/Unpublished” column you must change the value of “published” field. Switch color green means the article is published – grey, it’s unpublished.

Clicking on “New article” button should display an aside (the side pane of the [New Article screen](#)). The aside component will be used to create, edit, and show an article. The article must be created with the following fields:

- Headline
- Body
- Author
- Publication date
- Published (true or false)

All fields are mandatory and the “Save” button should be set to another color only when all the data is filled.

When an article is hovered from the list it should be colored light gray as shown in the Articles screen.

When you click on an article in the list, the aside pane should be open with the article information. In this component, you must only be able to see the data, and you can only change the switch status of the “published” field. [View article screen](#)

When clicking on the “Edit” button at the bottom of the article detail aside, the field must be changed to editable fields as shown in the [Edit article screen](#). Fields should be the same as the creation form. If the “Close” button is clicked all data must be discarded and the user should return to the show information. If the “Update” button is clicked the article information must be updated and returned to the show info.

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Since our client tech team will maintain this project after delivery and we want too ensure smooth handover and long-term maintainability, you must include a detailed README.md with the following:

- Design & Architecture Decisions
 - Explain your design choices (e.g., framework selection, folder structure, atomic design usage).
- Code Documentation
 - Provide a clear overview of how the code works.
 - Highlight any non-obvious logic or dependencies.
- Deployment Guide
 - Step-by-step instructions for setting up and deploying the project.
- Testing
 - How to run tests (unit, integration, E2E, etc.).
 - Any required test environment setup.
- For data storage, you can use in-memory storage (arrays/objects, reset on restart) or JSON file (persists between runs).
- The client expects error handling and basic validations (e.g., prevent empty fields and invalid dates).
- You must adhere as closely as possible to the mockups approved by the client, ensuring consistency in structure, font type, font sizes for each component, margins, paddings, borders, and colors. The mockups are available in Figma. If you encounter any issues accessing them or have questions, please don't hesitate to reach out to us.
- There's no need to build a backend or setup a database connection and persist data.
- You may use any programming language (e.g., TypeScript, JavaScript, or more niche options) and any front-end framework or library (such as React, Angular, or Vue). CSS preprocessors are allowed, and you're free to use styling frameworks.
- Propose a front-end architecture that ensures maintainability and scalability. For component organization, consider using atomic design methodology to structure your elements effectively.
- All screens from the mockups provided must be fully developed.
- All icons must be sourced directly from the Figma assets. If downloading is restricted, ensure you:
 - Log in to Figma, or
 - Create a free account if you don't already have one.