

Title : Unilamp Website.

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ABSTRACT

This project entails the development of a product management and display system for the Unilamp Website utilizing a Headless CMS architecture. By leveraging WordPress as the backend content management system and Next.js as the frontend framework, the system achieves separation of the presentation layer and data management. Data is retrieved and displayed via REST API and WPGraphQL, supporting various content categories including Products, Projects, News & Events, Videos, Brochures, and other resources.

The technical implementation involved designing a structured database schema using Custom Post Types (CPT), Taxonomies, and Advanced Custom Fields (ACF) to manage complex data relationships, specifically those between products, accessories, and modular solutions. Furthermore, a custom Excel Template was designed to facilitate bulk data importation, accommodating both One-to-Many and Many-to-Many relationships to optimize the administrator's workflow.

In conclusion, the resulting system successfully satisfies corporate requirements for efficient product data management while establishing a scalable foundation for future developments, such as role-based access control and multilingual capabilities.