

System Overview

The Cores Annual Report system is a stand-alone system for storing and managing the content necessary for the generation of the annual report in it's various forms. Access to the system is controlled by the University DUO 2FA system with a fallback to a magic link email based login system.

Tech Stack

The system uses the following technologies:

- NodeJS - Core Javascript Engine
- ExpressJS - HTTP Server Framework
- PugJS - HTML Templating Engine
- TailwindCSS - CSS Framework, Included as part of DaisyUI
- DaisyUI - CSS UI Component Preset Framework
- ViteJS - Application Template and Development Support Framework

AI Usage

This system has AI written and reviewed code. AI usage during development of this system consisted of use of the following models for code review purposes:

- unsloth/Qwen3.6-35B-A3B-GGUF:UD-Q4_K_M
- unsloth/Qwen3.6-27B-GGUF:Q8_0

All models were run locally on the developer M2 MacBook using llama.cpp and OpenCode. No cloud hosted models were used. Any code generated directly by OpenCode in build agent mode was fully reviewed prior to commit. The RecordManager component was developed using OpenCode as the developing agent. The initial prompt for the component is located in the opencode_prompts folder.

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