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CS 04605- Advanced Web Programming

Final Project Summary

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GitHub URL: <https://github.com/stantonp7/WebProgramming>

The InRetrospect project is a web application developed with a focus on front-end design using technologies like Auth0, Mantine, React, and NextJS. It also includes a backend design involving Express, Node, MongoDB, TypeScript, and Swagger.

The front-end design allows for efficient and modern front-end development. Additionally, the project features a Dark Mode, leveraging the Mantine library, to provide users with a visually appealing and customizable experience. A key component of the application's functionality is its Gmail Login feature, which is facilitated by integrating Auth0. This feature enables seamless and secure user authentication using their Gmail accounts (including our Rowan email). The project also incorporates NextJS for server-side rendering, enhancing the application's performance and user experience. Server-side rendering significantly reduces the time to first load, resulting in faster and more efficient page rendering.

The back-end design utilizes TypeScript which was employed to simplify the creation of models and enforce data-related rules, ensuring a more maintainable and structured codebase. Swagger is used for documenting and testing API endpoints, making it easier for developers to interact with the back-end.

My overall objective of the project was to explore and go beyond the traditional MERN stack by incorporating NextJS, Mantine, and TypeScript. This approach allowed the me to create a technically advanced and leaner project. However, in retrospect, I wished I had allocated more time to actively work on the project instead of spending excessive time watching tutorials.

The features implemented in InRetrospect include Dark Mode, enabling users to personalize their experience, as well as the ability to Create and Manage Retro Templates, including creating, deleting, and viewing templates. Moreover, the Login with Auth0 feature enhances security and simplifies the authentication process.