Smart Hub

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Abstract: *SmartHub is an advanced all-in-one productivity platform designed to streamline daily digital activities by integrating multiple essential tools into a single, unified dashboard. The system addresses the common challenge of managing and switching between various applications for tasks such as note-taking, reminders, and learning by providing a centralized and efficient workspace. Built on a modern decoupled architecture, SmartHub utilizes a React (Vite) frontend for a fast and responsive user interface, a Node.js and Express backend for handling APIs, and PostgreSQL with Prisma ORM for robust and scalable data management. The platform incorporates intelligent features such as a water reminder system powered by scheduled background jobs using node-cron, and an AI Quiz Hub that dynamically generates questions using AI APIs, enhancing user engagement and personalized learning.*