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Brighthuman: A Smart Web Application for Intelligent Task Management and Productivity Optimization (Pramod Kumar Sagar, Associate Professor in the Department of Computer Science and Engineering, Raj Kumar Goel Institute of Technology) Harsh Singh Computer Science and Engineering Raj Kumar Goel Institute of Technology Ghaziabad, India harshdean1234@gmail.com Vansh Kabaria Computer Science and Engineering Raj Kumar Goel Institute of Technology Ghaziabad, India kabariavansh@gmail.com Umesh Dixit Computer Science and Engineering Raj Kumar Goel Institute of Technology Ghaziabad, India umesh7dixit@gmail.com Abstract—Task management is one of the most vital aspects of organizational and personal productivity. This paper introduces Brighthuman, a smart, web-based application designed for intelligent task management and productivity optimization. The application, through modern web technologies, addresses common challenges associated with task prioritization, scheduling, and collaboration, adhering to the relevant IEEE software engineering and quality standards. Developed according to IEEE 29148-2018 standards for software requirements, Brighthuman follows user-centered design principles and provides an intuitive interface for smooth task management. The system integrates functionalities such as task creation, categorization, deadline tracking, priority-based sorting, and collaborative sharing features. Using data-driven insights and an intuitive dashboard, Brighthuman provides users with real-time productivity analytics to monitor performance and identify areas for improvement. In addition, automatic reminders, Gantt charts of progress, and task dependencies conform to IEEE 830-1998 standards, maintaining the system functionality clear, consistent, and traceable. The performance of the Brighthuman application shows improvement in the completion efficiency of tasks by 25%. It is measured with the IEEE 1061 software quality metrics. Usability tests of different user groups report positive usability results, satisfying IEEE 9241 standards of Human-Computer Interaction. Keywords—Task Management, Productivity Optimization, Web Application, IEEE Standards, Brighthuman, Software Testing, HumanComputer Interaction, Workflow Automation INTRODUCTION This paper introduces Brighthuman, a smart web application designed to overcome the shortcomings of conventional task management tools. Brighthuman is intended to improve

the tracking, prioritization, and optimization of tasks using modern web technologies and data-driven insights. The platform guarantees streamlined workflows, better visibility of tasks, and greater collaboration with intelligent features that include automated reminders, priority sorting, visual tracking of tasks, and real-time analytics. In addition, Brighthuman provides personalized dashboards that allow for monitoring productivity metrics to determine where inefficiencies can be corrected in work processes. The complexity of jobs in professional and personal contexts has created a strong urge for intelligent task management systems. Modern organizations, teams, and individuals require tools to not only help them manage tasks effectively but optimize productivity through smart features such as prioritization, real-time insights, and automation. Web-based task management solutions provide the ideal platform for dealing with dynamic workflows because they are accessible, scalable, and enable collaboration. Literature Review Title Journal Name Publication Year Research Findings Enhancing Work Productivity through Generative Artificial Intelligence ResearchGate 2023 This study offers an insightful overview of the impact of GAI on enhancing institutional performance and work productivity, thereby providing a prospect for AI-driven tools to optimize task management. The Development of a Task Management Software (TMS) PM World Journal 2023 This paper delves into how the use of a TMS in an office environment can have benefits that enhance efficiency and productivity. It highlights the need to prioritize tasks and balance them with schedules as part of a project management framework. Taskify: Get Things Done with Ease IRJMETS 2023 Taskify is an application for a digital to-do list, providing an easy and efficient solution for enhancing productivity, effective task prioritization, and management of time and workflow. It has features like intelligent sorting of tasks, customizable ordering, reminders, and deadlines that help the user stay on track. INTELLIGENT TASK MANAGEMENT SYSTEM IJCRT 2023 This paper proposes an Intelligent Task Manager to improve the task organization, task allocation, and task execution process. It seeks to increase productivity through intelligent aid in task management and task prioritization in an organization. Web-Based Student Task Management System ResearchGate 2022 The objective of this project is to design a web-based student task management system that can help the students manage their assignments. It is intended to enhance the productivity and time management of students by providing them with a central platform to track and organize tasks. Research Gap Randomized Evaluation vs. Performance Tracking: The traditional systems used in the evaluation of academic performance rely on arbitrary judgment or limited manual tracking and lack a uniform methodology. Brighthuman fills this gap by allowing faculty to give internal marks based on detailed performance tracking, thereby ensuring fairness and transparency Task Prioritization Without Contextual Adaptability: Existing task management tools provide static prioritization that doesn't evolve as the user changes their needs and preferences. Brighthuman proposes intelligent, behavior-driven task prioritization, that dynamically adapts to the pattern and preference of the user. Lack of Integration with Educational Systems: The traditional

productivity tools rarely integrate with the academic and professional ecosystems. Brighthuman bridges this gap by incorporating features such as performance metrics and collaborative dashboards, which can assist educators in evaluating student progress and team leads in monitoring workplace contributions. Lack of Real-Time Feedback Mechanism: Most platforms don't support the real-time mechanism of giving feedback on the work done. Brighthuman uses instant notifications and analytics to ensure that the tasks are corrected and efficiency is increased on-the-go. Lack of Cross-Platform Synchronization: Many apps do not have a smooth synchronization mechanism between different devices and platforms. Brighthuman supports the real-time synchronization of all the productivity tools like calendars and project management software for a unified system. Lack of Productivity Analytics for Decision-Making: The old systems rarely have analytics to yield actionable insights. Brighthuman uses data visualization and analytics in helping users take the right decision on workload allocation and productivity tactics. Poor Support for Task Continuity: Conventional systems lack provisions for seamlessly carrying forward incomplete tasks. Brighthuman's adaptive scheduling ensures pending tasks are highlighted and integrated into future plans, reducing bottlenecks and improving task completion rates.

Sources

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The objective of this project is to produce a web-based student task management system that can help UCYP students in managing their assignments.

https://www.researchgate.net/publication/362296035_Web-Based_Student_Task_Management_System