

Task Management System (TMS)

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Abstract

An easy-to-use application designed to help students manage their tasks efficiently, both in short-term and long-term scenarios. This implementation aims to surpass conventional task planners with its advanced features, including automated prioritization, personalized time estimation, and integrated notifications.

1 User Specification

1. Users can enter tasks manually or by voice.
2. The app estimates the average time for task completion and suggests personalized times for the user.
3. Automatic task prioritization based on grade weightage, workload, and due dates, with manual adjustment options.
4. Recommendations on which task to complete next.
5. Notifications if the user is accessing distracting apps.
6. User-friendly and easy interaction.
7. Seamless task entry.
8. Soft notifications with customizable design and sound.
9. Extensive customization for notification settings, including granular and general assignment categories.
10. Progress and status updates for task tracking.
11. Synchronization between mobile and PC applications.
12. Central calendar functionality.
13. Personalization features.

2 System Specification

- **Platform Compatibility:** The system will be compatible with major mobile operating systems (iOS and Android) and desktop operating systems (Windows, macOS).
- **Data Management with Neo4j:** Utilizes Neo4j Graph Database for storing and querying data. This enables efficient handling of complex relationships between tasks, priorities, user preferences, and deadlines.
- **Task Estimation System Specifications::** Machine Learning/Graph Database ???
- **Security:** Robust security measures for data protection, including user authentication.
- **Scalability:** Designed to efficiently handle a growing number of users and tasks without performance degradation.

- 3 Functional Requirements**
- 4 Non-Functional Requirements**
- 5 Diagrams**
- 6 References**