Software Requirement

Specification

**For**

**Task Management System**

Scope:

A task management system is a tool designed to track and manage tasks for users, allowing them to create, update, and delete tasks, set deadlines, and categorize tasks. It also involves defining notification preferences and access control for tasks, gathering user needs for task management, and understanding the importance of task categorization and deadlines. Some key features of a task management system include deadline tracking and notifications, task creation, modification, and deletion, and task categorization and priority setting. Task management software helps prioritize, manage, and complete tasks on time, with features like reminders, status timeline, and time trackers to keep ahead of deadlines.

User class:

* Can create, modify, and delete tasks
* Can set deadlines for tasks
* Can categorize tasks based on priority and type
* Can view all their tasks in a list or calendar view
* Can search for tasks by keyword, category, or deadline
* Can set notification preferences for tasks
* Can receive notifications when a task is due or overdue
* Can share tasks with other users
* Can set permissions for shared tasks (view only, edit, or delete)

External interface requirement:

1. User Interface
   * The system shall have a user-friendly interface that is easy to navigate and visually appealing
   * The interface shall include elements such as text fields, buttons, and dropdown menus for task management
   * The interface shall allow users to view tasks in a list or calendar view, search for tasks by keyword, category, or deadline, and set notification preferences
2. Hardware Interface
   * The system shall be portable and accessible from any device with an internet connection
   * The system shall not require any specific hardware configurations, making it accessible to a wide range of users
3. Input and Output Interfaces
   * The system shall support various input methods, such as keyboard, mouse, and touchscreen, to accommodate different user preferences
   * The system shall provide output in various formats, such as lists, tables, and calendars, to help users visualize and manage their tasks effectively

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1. Data Interface
   * The system shall be able to interact with a SQL database to store and retrieve user data, task information, and system settings
   * The system shall support data exchange with other applications, allowing users to import and export tasks and related information

System features:

One system feature for a task management system is task scheduling. This feature allows users to set deadlines for tasks and create schedules to manage their workload effectively. Task scheduling helps users prioritize their tasks and ensures that they are completed on time. Another important feature is task customization and editing, which allows users to update tasks based on specific situations and requirements. This feature helps users adapt to changing circumstances and ensures that tasks are completed efficiently. Additionally, task assignment and collaboration features are essential for a task management system, allowing users to assign tasks to team members, track progress, and communicate effectively. Other important features include task prioritization, recurring tasks, task automation, reminders, status timeline, and time tracking. These features help users manage their tasks efficiently, collaborate with their team members, and stay on top of their workload.

Data and category:

Data

Each task in the task management system can be specified by a number of properties, including:

* Priority
* Status
* % Complete
* Due Date
* Workflow
* Notes
* Attachments
* Estimate Time
* Actual Time

Category

The task management system allows for the categorization of tasks based on various criteria, such as:

* Priority
* Completion status
* Workflow
* Project
* Team
* Deadline
* Tags

System requirements:

Software Configuration

This software package is developed using java as front end which is supported by sun micro system. Microsoft SQL Server as the back end to store the database.

Operating System: Windows NT, windows 98, Windows XP Language: Java Runtime Environment, Net beans 7.0.1 (front end) Database: MS SQL Server (back end)

Hardware Configuration

Processor:Pentium(R)Dual-core CPU

Hard Disk: 40GB

RAM: 256 MB or more

Security requirements:

Based on the provided information, a security requirement for a task management system is data protection. The system must implement measures to safeguard user data, such as encrypting sensitive information and implementing secure authentication mechanisms. Additionally, the system should be regularly updated and maintained to ensure that any potential security vulnerabilities are addressed. This data protection requirement ensures that users can trust the task management system with their sensitive task information and work efficiently without worrying about the security of their data.