

report

Section 1: Problem Description

The software application developed by our team addresses the prevalent challenges associated with tasks and time management in the 21st century. Given the multitude of distractions in contemporary life, there is an increased risk of forgetting tasks or missing deadlines. Our program serves as a solution to this issue by offering an accessible and user-friendly to-do list. The intention is to assist individuals in efficiently managing their tasks and schedules, providing a practical tool to counteract the impact of modern distractions on productivity and timely completion of responsibilities.

Section 2: Work Distribution

The team's responsibilities were clearly delineated for an efficient workflow:

Member (1), Youssef Othman, took charge of user input management and error handling. His role encompassed guiding users to input valid information. Additionally, Youssef spearheaded the development of functions related to time management and deadlines.

Member (2), Radwan Elshafiey, assumed responsibility for the user interface, focusing on enhancing user-friendliness through thoughtful color schemes. Radwan meticulously crafted the layout for displaying tasks on the interface. Furthermore, he played a crucial role in implementing features related to saving and exporting data from files.

Section 3: Problem Solution

Our software application has been meticulously developed to address issues associated with ineffective time management and challenges in meeting task deadlines. It offers several features aimed at alleviating these concerns. Users can input tasks, including deadlines and labels, and specify the desired reminder time before the deadline. The program incorporates a user-friendly interface with aesthetically pleasing colors. Notably, users can categorize tasks, with similar tasks sharing a common color for enhanced clarity and ease of use.

Section 4: User Manual

Our program boasts an intuitive user interface designed for effortless navigation. Upon opening the program, users encounter five key input fields:

Task Name → Users enter the name of the task in this field.

Deadline Date (yyyy-mm-dd) → Users input the deadline date in the format (yyyy-mm-dd). An error message prompts correction if the format is not followed upon clicking the "Add Task" button.

Deadline Time (HH:mm) → Users provide the time of the day for the deadline in the format (HH:mm). Like the date field, an error message appears for incorrect formats upon clicking the "Add Task" button.

Hours Before Deadline → Users specify the number of hours before the deadline for the reminder. An error message appears if a non-integer value is entered upon clicking the "Add Task" button.

Label → Users categorize tasks by entering a label.

Additionally, six buttons facilitate seamless interaction:

Add Task → Clicking this button after completing the input fields adds the task.

Mark as Complete➔ Users select a task and click this button to mark it as completed.

Remove Task➔ Users click on a task and use this button to remove it.

Clear Completed Tasks➔ Clicking this button removes all completed tasks.

Export Tasks➔ Users can save tasks to a file for future use by clicking this button.

Load Tasks➔ This button allows users to load tasks from a file.