### To-Do List Application: "TaskMaster"

#### Purpose:

The purpose of the "TaskMaster" application is to provide users with a simple and efficient tool for managing their tasks and to-do lists. It aims to help users organize their daily activities, prioritize tasks, set due dates, and easily edit or remove tasks as needed.

#### Goals:

1. \*\*Task Management: \*\* Allow users to add, edit, and delete tasks.

2. \*\*Prioritization: \*\* Implement task prioritization to help users focus on the most important tasks.

3. \*\*Due Dates: \*\* Allow users to set due dates for tasks to better manage deadlines.

4. \*\*Categorization: \*\* Provide the ability to categorize tasks for better organization.

5. \*\*User-Friendly Interface: \*\* Create an intuitive and visually appealing GUI for a seamless user experience.

#### Target Audience:

The target audience for "TaskMaster" includes individuals of various age groups who need a simple and effective tool to manage their daily tasks. It is designed for professionals, students, and anyone who wants to improve their productivity by staying organized.

#### Outline of the Application:

1. \*\*Main Window:\*\*

- Header displaying the application name ("TaskMaster").

- Display area for the list of tasks.

2. \*\*Task Entry Section:\*\*

- Text entry field for adding a new task.

- Buttons for adding tasks with prioritization options.

- Date picker for setting due dates.

3. \*\*Task List:\*\*

- Scrollable list of tasks with columns for task name, priority, due date, and options (edit/delete).

- Color-coded priority levels for easy identification.

4. \*\*Task Editing:\*\*

- Double-clicking on a task opens a pop-up or inline editor to modify task details.

5. \*\*Task Deletion:\*\*

- Button or context menu option for deleting selected tasks.

6. \*\*Task Prioritization:\*\*

- Option to set task priority levels (e.g., high, medium, low).

7. \*\*Due Dates:\*\*

- Option to set due dates for tasks using a calendar or date picker.

8. \*\*Task Categorization:\*\*

- Dropdown or tags for categorizing tasks (e.g., work, personal, study).

9. \*\*Save and Load:\*\*

- Option to save tasks for future sessions and load previous task lists.

10. \*\*Help/About:\*\*

- Information about the application, version, and brief instructions.

11. \*\*Exit Button:\*\*

- Button to exit the application.