

Project Document

To Do App

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Contents

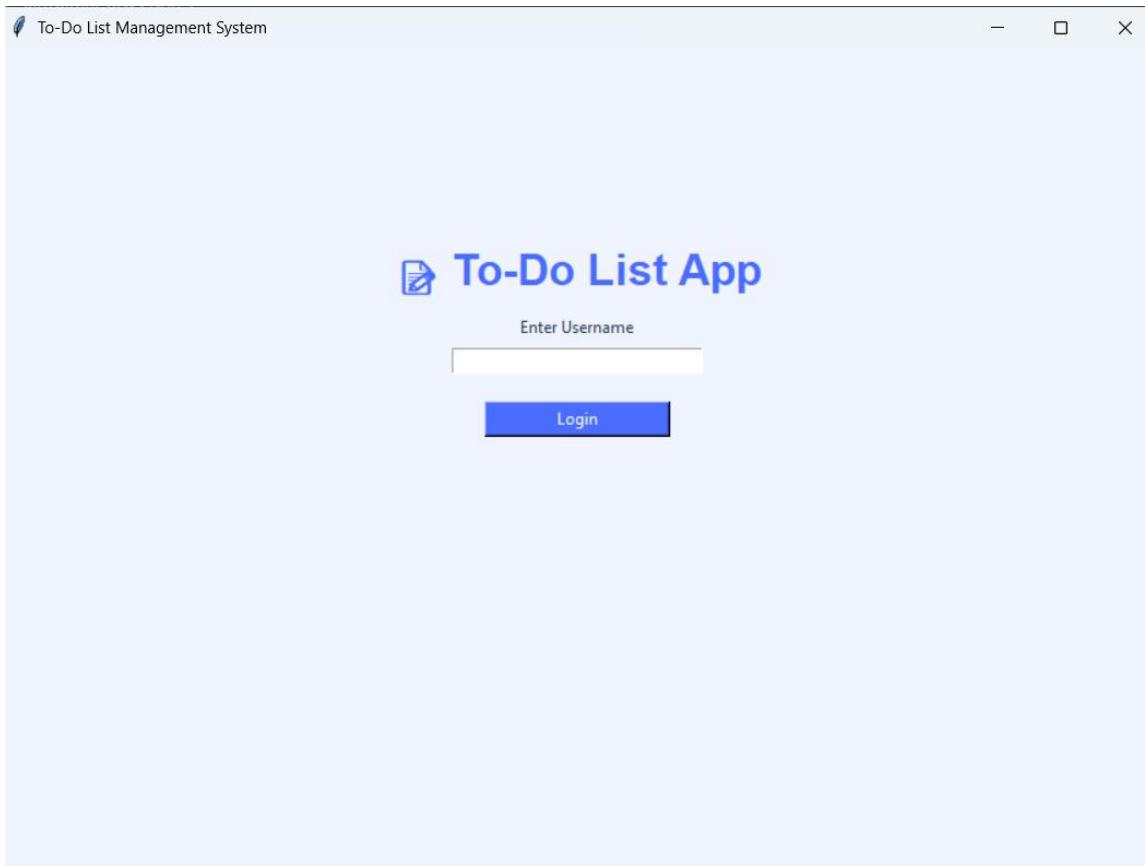
1. Features of the To-Do List Management System.....	3
2. Screenshots.....	3
3. Problems Faced and Solutions	5

1. Features of the To-Do List Management System

- User Login system to access personal tasks
- Add new tasks with priority, due date, and category
- Edit existing tasks
- Delete tasks
- Mark tasks as completed
- View all tasks with full details
- Automatic saving of tasks to file (JSON)
- Load tasks automatically on application startup
- Simple and user-friendly interface (Tkinter GUI)

2. Screenshots

2.1 Login Screen



2.2 Task Screen

The screenshot shows a Windows-style application window titled "To-Do List Management System". The title bar includes standard window controls (minimize, maximize, close). Below the title bar, a welcome message "Welcome, Maneesha" is displayed with a small hand cursor icon.

The main interface is divided into two sections:

- Task Details:** A form with fields for "Task Name" (text input), "Priority" (dropdown menu showing "Low"), "Due Date" (text input with placeholder "YYYY-MM-DD") and "Category" (text input).
- Your Tasks:** A list of tasks with checkboxes:
 - Wake up at 7.00 AM | High | Daily routine | Due: 2025-12-20
 - Create notes for ERPS | High | Study | Due: 2025-12-20
 - Read 20 pages of a novel | Low | Study | Due: 2025-12-20
 - Make a strawberry macha | Low | Tea time | Due: 2025-12-20A vertical scroll bar is visible on the right side of the task list.

At the bottom of the window, there are four buttons: "Add" (blue), "Update" (green), "Delete" (red), and "Completed" (purple).

3. Problems Faced and Solutions

Problem 1: Tasks were not saving after closing the application.

Solution: Implemented JSON/SQLite storage to save tasks permanently.

Problem 2: Difficulty in updating existing tasks.

Solution: Used unique task indexes to identify and update selected tasks.

Problem 3: Invalid user input (empty task names or wrong dates).

Solution: Added input validation to prevent incorrect entries.

Problem 4: UI was confusing at the beginning.

Solution: Simplified layout and added clear button labels.

Problem 5: Task status not updating correctly.

Solution: Updated logic to refresh task list after status change.