

Project Description

This project is a lightweight, user-friendly console-based To-Do List application. The application will help users organize tasks by allowing them to create, view, update, and delete tasks, along with functionality to categorize tasks in user-named directories. Task information will be stored persistently in CSV files to ensure accessibility across sessions. The application will utilize Python libraries such as hashlib for task ID generation, datetime for date and time tracking and os for file and directory management

Key Features

User Management:

- Create a directory for each user to store their task data.
- Load user-specific tasks from CSV files.

Task Management:

- **CRUD Operations:** Creating, Reading, Updating and Deleting tasks in a menu-based system.
- **Mark as Completed:** Mark tasks as completed, updating their status in the CSV file.

Data Storage:

- Save tasks in a user-named directory using CSV files, with fields for task ID, title, description, due date, priority, and status.

Concepts

- **Approach:** there is a blend of both object-oriented approach and functional approach, that is utilized in this project.
- **Libraries:** the main libraries utilized in this project are os, datetime and hashlib.
- **File system:** The application is not written in a single .py file, rather it is divided into multiple files for the ease of scalability in future.

Modules

- **Logins.py:** It handles the main login and user credentials inputs.
- **CRUD.py:** It handles the CRUD operations and storage in CSV files
- **Utils.py:** It handles different utilities such as input validation sub-routines etc.