

Personnel To-Do List Application

A simple task management tool

Overview of the application

PURPOSE

To help users manage
their tasks effectively

KEY FEATURES

Add, view, edit, mark as
completed and delete
tasks

Application Features

Core features:

- Add tasks with a title, description, and category.
- View all tasks with status(completed or pending).
- Edit task details
- Mark tasks as completed
- Delete tasks
- Save tasks to a JSON file for persistence between sessions.

Data persistence

- 1. Data Storage: The tasks are saved to a JSON file named `tasks.json`. This is handled by the `save_tasks` function, which serializes the list of `Task` objects to JSON format and writes it to the file.

2. Data Retrieval: When the application starts, it calls the `load_tasks` function to read from `tasks.json`. If the file exists, it deserializes the JSON data back into `Task` objects, allowing the application to continue working with previously saved tasks.

- 3. Handling Absence of File: If the tasks.json file does not exist (e.g., on the first run), the load_tasks function returns an empty list, ensuring that the application can still function without any prior data.

Task class

Attributes

- Title
- Description
- Category
- Completed status

Error handling and validation

Error handling

- The application handles valid inputs and missing files
- If the tasks.json file is not found, a new one is created.

Input Validation: Ensures users provide valid inputs when adding or editing tasks.

Thank you